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October 31, 2017

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

Attention: Ms. Gretchen Fitzgerald

Re: NYSDOT PIN 8806.51.101
Harrison Sub-Residency Landfill Site
5th Quarter Monitoring Report
West Harrison, New York
TRC Project No. 280088

Dear Ms. Fitzgerald:

TRC Engineers, Inc. (TRC) has prepared the following letter report to present the findings of the 5th quarter monitoring conducted at the Harrison Sub-Residency Landfill Site (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 for leaf transfer operations. 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") dated February 2010 outlines the fifth quarter monitoring program the New York State Department of Environmental Conservation (NYSDEC) mandated for the Site. TRC performed the Site monitoring for the NYSDOT in accordance with TRC's May 2017 approved scope of service.

Sampling Activities

Between July 10 and 12, 2017, TRC sampled groundwater, surface water, sediment, and landfill gas at the Site to monitor the environmental conditions at the landfill. Figure 1 provides a Site location map and Figure 2 provides a site map of the landfill area.

Groundwater Sampling Activities

No signs of well damage or evidence of tampering were noted during a visual inspection conducted at the five (5) on-site and offsite 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 (or PVC riser). No non-aqueous phase liquid was

detected in the wells through use of 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 any of the five (5) monitoring wells. Figure 2 presents a map of the monitoring well locations. Based on the prior Site groundwater monitoring report and the natural topography of the Site, monitoring well PC-3 is located off-site and downgradient from the landfill while monitoring wells LMW-4, PC-1, and PC-2 are located on-site and downgradient from the landfill. Monitoring well LMW-2 is located on-site and upgradient of the landfill.

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

Groundwater samples were immediately collected following stabilization of water quality parameters. Groundwater samples, including one blind duplicate at PC-1, were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), and Target Analyte List (TAL) metals, cyanide and chloride. Groundwater samples for TAL metals were field filtered with dedicated disposable 0.45 micron filters prior to preservation.

Surface Water and Sediment Sampling Activities

Collocated surface water and sediment samples were collected at three (3) locations depicted on Figure 2. Due to the absence of surface water at SW/SD-3, samples were not collected at this proposed location. Note that approximately 4 days prior to the collection of surface water and sediment samples, on July 7, 2017, a rainfall total measuring approximately 1.11 inches was recorded and on the night immediately preceding sample collection, on July 10/11, 2017 a rainfall total measuring 0.25 inches was recorded. These rainfall totals were measured at the Westchester County Airport located in close proximity to the Site. Based on the occurrence of these recent precipitation events and field observations of no water at the time of the sampling, the SW/SD-3 location appears to be a seasonally inundated wetland without frequent standing water.

Surface water samples were collected first at each location to minimize sediment disturbance and incorporation into surface water samples. Surface water and sediment sampling proceeded from downstream (SW/SD-4) to upstream (SW/SD-1) to further minimize sediment mobilization. Surface water samples were collected directly into laboratory supplied containers. Sediment samples were collected using dedicated disposable new plastic scoops. Surface water and sediment samples, including one blind duplicate at SW-2, were analyzed for TCL VOCs, TCL SVOCs, and TAL metals, and cyanide. Surface water samples were also analyzed for hardness and chloride. Following the collection surface water and sediment samples, field surface water quality parameters including temperature, turbidity, conductivity, pH, and dissolved oxygen

concentration were measured directly in the stream, and the approximate stream channel width, depth, and flow rate were measured and recorded. Refer to Appendix A for stream and sediment sampling field data.

Groundwater, surface water, and sediment samples were containerized in laboratory supplied containers, 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. One (1) trip blank sample provided by the laboratory with the sample containers also accompanied each sample shipment to the laboratory and was analyzed for TCL VOCs.

Decontamination water and well purge water were drummed and staged onsite, 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. The waste transport and disposal documentation is provided in Appendix B.

Landfill Gas Monitoring Activities

Gas monitoring was conducted at the four (4) onsite landfill gas vents and along the upwind and downwind sides of the landfill. A Landtec GEM5000 portable landfill gas meter was used to monitor for methane, carbon monoxide, carbon dioxide, oxygen, and hydrogen sulfide. A MiniRAE 3000 portable meter equipped with a photo ionization detector (10.6 eV lamp) was used to monitor for volatile organic vapors. Figure 2 depicts the locations of the landfill gas vents.

Monitoring Results

Groundwater Sample Results

Results of the groundwater sample analyses were compared to the NYSDEC Class GA Standards (NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, June 1998) and are summarized in Tables 1 through 3. A copy of the laboratory sample data report is included in Appendix C. Note that Appendix C also includes laboratory analytical data pertaining to the Harrison Sub-Residency spill site [Spill #94-07349] as both sites were sampled concurrently. A separate 5th quarter monitoring report was prepared for the spill site.

There were no VOCs or SVOCs detected above the respective laboratory reporting limits in the groundwater samples. Cyanide and chloride were not detected above their respective standards in any of the groundwater samples. Concentrations of iron and manganese exceeded the Class GA groundwater standards at monitoring wells LMW-4, PC-1 (and its duplicate PC-FD-201707), and PC-2. The iron concentration at PC-3 also exceeded the Class GA standard. Sodium concentrations exceeded the Class GA standard in all of the wells. A summary of the Class GA groundwater criteria exceedances are provided in the table below.

Metals Detected in Groundwater at Concentrations Greater than Class GA Standards

Analyte	NYSDEC Class GA Standards (µg/L)	Monitoring Well Identification					
		LMW-2 (µg/L)	LMW-4 (µg/L)	PC-1 (µg/L)	PC-FD-201707[1] (µg/L)	PC-2 (µg/L)	PC-3 (µg/L)
Iron	300/500[2]	ND	**110,000**	**1,400**	**1,400**	**62,000**	**350**
Manganese	300/500[2]	ND	**12,000**	**1,500**	**1,500**	**10,000**	240
Sodium	20,000	**22,000**	**28,000**	**160,000**	**150,000**	**36,000**	**81,000**

Notes:

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

[2] – Standard of 500 µg/L applies to the sum of Iron and Manganese

ND – Analyte not detected at laboratory reporting limit

Bolded Values Exceed the Class GA Standard

µg/L – micrograms per liter

Iron and manganese were not detected in the upgradient background well LMW-2, however, both analytes were detected at elevated levels in the on-site downgradient wells PC-1, PC-2, and LMW-4. At off-site downgradient well PC-3, the iron level (350 µg/L) slightly exceeded the Class GA standard (300 µg/L). The iron and manganese groundwater standards are both established for protection from aesthetic considerations. Sodium was detected in all five wells, including the upgradient well LMW-2 (with the lowest observed concentration of 22,000 µg/L), at levels exceeding the Class GA standard with the highest sodium concentration detected at the on-site downgradient well PC-1 (160,000 µg/L). The sodium groundwater standard is established for the protection of sources of drinking water; however, the site groundwater is not used for drinking water.

Several other metals (aluminum, arsenic, barium, calcium, cobalt, magnesium) were detected in at least one on-site well at a concentration greater than that detected in the upgradient off-site well, however, none of the groundwater concentrations for these metals exceeded Class GA standards.

Surface Water and Sediment Sample Results

Results of the surface water samples were compared to NYSDEC Class GA groundwater standards and NYSDEC Class A surface water standards and are summarized in Tables 4 through 6. A copy of the laboratory sample data report is also included as Appendix C.

The Site water bodies are tributaries to the Kensico Reservoir, which is a source of public drinking water. Class A standards are established for surface water drinking protection (Type H(WS)), human consumption of fish (Type H(FC)), fish propagation (Type A(C)), fish survival (Type A(A)), protection of wildlife (Type (W)), and aesthetics (Type (E)). Some Class A metals standards are dependent on a water sample's specific hardness concentration, which was measured by the laboratory for each surface water sample.

There were no VOCs or SVOCs detected above the laboratory reporting limits in the surface water samples. Cyanide and chloride were not detected above their respective standards in any of the surface water samples. Concentrations of iron and manganese in all of the surface water samples exceeded the NYSDEC Class GA ground water standards and Class A surface water standards established for protection of aesthetic considerations as well as fish propagation (iron only). Additionally, aluminum was detected in the downstream sample SW-4 at a concentration exceeding the Class A surface water standard for fish propagation. A summary of the criteria exceedances are provided in the table below.

Metals Detected in Surface Water at Concentrations Greater than Class GA Groundwater Standards or Class A Surface Water Standards

Analyte	NYSDEC Class GA Groundwater Standards (µg/L)	NYSDEC Class A Surface Water Standards (Standard Type) (µg/L)	Surface Water Sampling Location Identification			
			SW-1 (µg/L)	SW-2 (µg/L)	SW-4 (µg/L)	SW-FD-201707 (µg/L)
Aluminum		100 (A(C))	ND	ND	**260**	**240**
Iron	300/500[2]	300 (A(C)&E)	**1,400**	**650**	**980**	**430**
Manganese	300/500[2]	300 (A(C))	**1,300**	**370**	**700**	**240[2]**

Notes:

[1] – SW-FD-201707 is a blind duplicate of SW-2-201707
[2] – Groundwater standard of 500 ug/L applies to the sum of Iron and Manganese
A(C) - Fish Propagation Class A Standard
E – Aesthetic Class A Standard
µg/L – micrograms per liter
Bolded Values Exceed the Class GA and/or Class A Standard

The highest iron and manganese concentrations were detected at the upstream sample location SW-1. Whereas, the highest aluminum level was detected at downstream sample location SW-4. In addition to the metals detected in the surface water above established standards, several other metals were detected in the surface water samples including calcium, magnesium, and sodium. However, none of these metals exceeded established criteria and their concentrations did not vary significantly between sampling locations. Sodium, which was detected in the groundwater at an elevated level in an on-site downgradient well, was only detected at a slightly elevated concentration at the downstream surface water station and below the groundwater standard (no surface water criterion).

Results of the sediment sample analyses were compared to NYSDEC Screening and Assessment of Contaminated Sediment Guidance Values (SGVs) and are summarized in Tables 7 through 9. A copy of the laboratory sample data report is also included as Appendix C.

Based on the NYSDEC guidance, sediments are considered to be low risk to aquatic life if concentrations detected are less than the Class A SGVs. Sediments with concentrations greater than Class C SGVs are considered likely to pose a risk to aquatic life. For Class B sediments (i.e., sediments with concentrations equal to or greater than Class A SGVs but less than or equal to Class C SGVs) additional testing is required to evaluate the potential risks to aquatic life.

There were no VOCs detected in the sediment samples above the laboratory reporting limits. Trace amounts of the following PAHs were detected below SGVs within one or both of sediment samples SD-1 and SD-2: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i) perylene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene.

Six (6) metals were detected at levels greater than the Class A SGVs in sediment samples collected at the SD-1 and SD-2 locations. All of these detections above Class A SGVs (i.e., within Class B range) were also below Class C SGVs except for the zinc concentration detected in on-site sediment sample SD-2. The table below provides a summary of the sediment SGV exceedances.

Metals Detected in Sediment at Concentrations Greater than Class A SGVs

Analyte	Class A SGV (mg/kg)	Class C SGV (mg/kg)	Sediment Sampling Location Identification		
			SD-1 (mg/kg)	SD-2 (mg/kg)	SD-4 (mg/kg)
Arsenic	10	33	6.2	**16**	2
Chromium	43	110	**68**	**53**	29
Copper	32	150	**54**	**80**	11
Lead	36	130	**52**	**100**	13
Nickel	23	49	**47**	**45**	22
Zinc	120	460	**180**	**<u>520</u>**	81

Notes:

Bolded Values Exceed the Class A SGV
Bolded Underlined Values Exceed the Class C SGV
mg/kg – milligrams per kilogram

Generally, the highest metals concentrations were detected at the on-site sediment sample location SD-2. Based on the Class A SGV exceedances for the above-listed five metals, which are all within the Class B range, there is a potential for adverse effects and according to NYSDEC sediment screening guidance, additional sediment metals testing and/or evaluation is required to evaluate the potential risks to aquatic life. According to NYSDEC guidance, the Class C SGV exceedance (zinc at SD-2) indicates that the sediments at the location likely pose a risk to aquatic life. According to the guidance, in general, an exceedance of the freshwater Class C SGV established for a metal indicates a 75% likelihood that toxicity will be observed. However, the NYSDEC sediment screening guidance (page 16) also indicates "While Class A contaminant concentrations in sediment can be considered to be acceptable, a determination should not be made that contaminants in sediment are harmful *solely* on the basis of exceeding a Class B or Class C SGV." Instead, given that five of the six above metals at SD-2 fall within Class B and the one

other metal (zinc) slightly exceeds the respective Class C SGV, overall the sediments at SD-2 could be classified as Class B with regards to potential risk to aquatic life.

Gas Monitoring Results

During monitoring at the four (4) gas vents, there were no methane readings from the gas vents that equaled or exceeded the lower explosive limit (LEL) for methane. The table below provides the measured levels for percent oxygen, percent carbon dioxide, percent methane, concentration of volatile organic compounds, concentration of carbon monoxide, and concentration of hydrogen sulfide at each gas vent.

Parameter	GV-1	GV-2	GV-3	GV-4
Oxygen (%)	16.4	15.0	14.8	18.0
Carbon Dioxide (%)	2.5	3.6	4.2	1.9
Methane (%)	0.6	2.8	0.3	0.0
VOCs (ppm)	0.0	0.0	0.0	0.0
Carbon Monoxide (ppm)	0.0	0.0	0.0	0.0
Hydrogen Sulfide (ppm)	0.0	0.0	0.0	0.0

Notes:
ppm – parts per million
Methane has an LEL of 5%

Methane was detected at the openings of gas vents GV-1 (0.6%), GV-2 (2.8%), and GV-3 (0.3%). The amount of methane present is specified as a percentage (%) by volume in air. The Lower Explosive Limit (LEL) is defined as the lowest concentration (by percentage) of a gas or vapor in air that is capable of igniting from a flash of fire (e.g., arc, flame, heat). The methane LEL is 5% by volume in air. As indicated by the above measurements, none of the detected methane levels equaled or exceeded the LEL for methane.

Gas monitoring upwind (SW corner of the Site) and downwind (NE corner of the Site) of the Site yielded typical ambient air background levels for oxygen (21.1 to 21.3%). Methane, hydrogen sulfide, carbon monoxide, and VOCs were not detected at either the upwind or downwind portions of the Site.

Quality Assurance/Quality Control Sampling Results

A duplicate sample (i.e., PC-FD-201707) was collected from groundwater monitoring well PC-1 and at surface water sample location SW-2 (i.e., SW-FD-201707) for quality assurance/quality control (QA/QC) purposes. The relative percent difference (RPD) is calculated using the following formula:

$$\%\,RPD = ABS\left(\frac{X_1 - X_2}{\frac{X_1 + X_2}{2}}\right) * 100\%$$

where, X_1 is the original value (PC-1 or SW-2), and
X_2 is the duplicate value (PC-FD-201707 or SW-FD-201707)

For groundwater samples, the greatest calculated RPD was 6.5% for sodium. Additionally, aluminum was detected just above the reporting limit in the PC-1 sample and not detected in the corresponding field duplicate sample, resulting in an undefined RPD.

For surface water samples, the greatest calculated RPD was 42.6% for manganese. Iron also registered an elevated RPD of 40.7%. As a result, the iron and manganese surface water sample concentrations would likely be qualified as estimated (J qualifier) in data validation. Additionally, aluminum was not detected in SW-2 but had a concentration just above the reporting limit in its associated duplicate. The low precision of the metals surface water results may be due to the ephemeral characteristics of the surface water in the stream or be the result of inadvertent sediment introduction to surface water sample containers during the direct collection of samples in containers thereby impacting sample homogeneity.

Conclusions and Recommendations

TRC updated the database of historical groundwater, surface water and sediment sample data summary tables and concentration trend graphs previously prepared by HDR/EPM to support an evaluation of trends in the sample data at the Site over time. The database and corresponding graphs are provided in Appendix D of this letter report. The following presents the conclusions of this round of monitoring, including a review of the documented data trends, along with resulting recommendations for future 5th quarter monitoring for the Site.

Groundwater

There were no VOCs or SVOCs detected above the respective laboratory reporting limits in the groundwater samples. Iron and manganese were not detected in in the upgradient background well LMW-2, however, both analytes were detected at elevated levels in the on-site downgradient wells PC-2, LMW-4 (with the highest levels), and PC-1 at levels above Class GA standards. At downgradient well PC-3, the iron level (350 µg/L) slightly exceeded the Class GA standard (300 µg/L). The iron and manganese groundwater standards are both established for protection from aesthetic considerations. Sodium was detected in all five wells, including the upgradient well LMW-2 (with the lowest concentration of 22,000 µg/L), at levels exceeding the Class GA standard. The highest sodium concentration was detected at the on-site downgradient well PC-1 (160,000 µg/L). The sodium groundwater standard is established for the protection of sources of drinking water; however, the Site groundwater is not used for drinking water.

The current VOC and SVOC monitoring results are consistent with historical monitoring results. During the previous 5th quarter monitoring event completed in April 2016, a low concentration of acetone (a common and suspect laboratory contaminant) was detected in LMW-4 and low levels of several SVOC tentatively identified compound (TICs) were detected in all wells. However, these April 2016 VOC and SVOC detections are considered to be questionable and/or insignificant when considered relative to the extensive historical groundwater monitoring results. Prior to the April 2016 event, no VOCs or SVOCs had been detected in any groundwater samples since July 2007 when similar low levels of toluene (a common and suspect laboratory contaminant) were detected in upgradient, onsite, and downgradient wells. Therefore, based on the Site groundwater monitoring data, VOCs and SVOCs do not appear to be Site contaminants of concern (COCs). As a result, TRC recommends petitioning NYSDEC to discontinue groundwater sampling and testing for VOCs and SVOCs at the Site.

The contaminant data trends for metals in groundwater remain mostly steady or on an overall downward trend with the exception of iron and sodium at several well locations. During the July 2017 event, on-site downgradient wells LMW-4 and PC-2 had the highest levels of dissolved iron observed to date at each location. Whereas, iron levels in the other onsite wells remained mostly steady with historic trends. Historically elevated sodium levels were observed at PC-1 in July 2017, however, the well previously had sodium levels near the same level prior to 2004.

Surface Water

There were no VOCs or SVOCs detected above the laboratory reporting limits in the surface water samples. Concentrations of iron and manganese in all of the surface water samples exceeded the NYSDEC Class GA ground water standards and/or Class A surface water standards established for protection from aesthetic considerations (iron and manganese) and for protection of aquatic life from chronic effects (iron), respectively. Aluminum was detected in the downstream sample SW-4 at a concentration exceeding the Class A surface water standard for fish propagation. The highest iron and manganese surface water concentrations were detected at the upstream sample location SW-1, whereas, the highest aluminum surface water concentration was detected at downstream sample location SW-4.

Based on the surface water contaminant trend data, no VOCs or SVOCs (aside from estimated SVOC TIC concentrations in April 2016) have been detected in the Site surface water samples since 2008 and 2009, respectively. Also, VOCs and SVOCs do not appear to be a Site contaminant of concern. In addition, no VOCs have been detected in sediments since 2013 and only low levels of SVOCs TICs were detected in one sampling event. Furthermore, given the volatile nature of VOCs and the low water solubility of SVOCs/PAHs, they are rarely detected in surface water unless there are recent VOC- or SVOC-containing spills or illicit discharges to surface water. Therefore, based on the historical monitoring data and the absence of any known Site VOC or SVOC contaminant discharges to surface water, TRC recommends petitioning NYSDEC to discontinue surface water sampling and testing for VOCs and SVOCs at the Site.

The contaminant data trends for metals in surface water remain steady or on a general downward trend with the exception of iron and manganese levels which both rose slightly compared to the prior monitoring event.

Sediment

There were no VOCs detected in the sediment samples above the laboratory reporting limits. Ten (10) PAHs were detected in sediment samples at very low concentrations below SGVs. Six (6) metals were detected at levels greater than the Class A SGVs in sediment samples collected at the SD-1 and SD-2 locations. All of these detections above Class A SGVs (i.e., within Class B range) were below Class C SGVs except for the zinc concentration detected in on-site sediment sample SD-2. Generally, the highest metals concentrations were detected at the on-site sediment sample location SD-2. Based on the Class A SGV exceedances for the above-listed five metals, there is a potential for adverse effects to aquatic life. According to NYSDEC guidance, the Class C SGV exceedance (zinc at SD-2) indicates that the sediments at the location likely pose a risk to aquatic life. However, based on the five metals that fall within the Class B SGV range and one slight Class C zinc exceedance, location SD-2 sediment could be classified as Class B with regards to potential risk to aquatic life. Therefore, additional sediment metals testing and/or evaluation is required to evaluate the potential risks to aquatic life. The need for and scope of any such additional testing or evaluation should be discussed with NYSDEC.

Based on the sediment contaminant trend data, no VOCs in sediment have not been detected at the Site since 2013 and the total VOC concentration at any sampling location has never exceeded 0.14 mg/kg (acetone, a suspect laboratory contaminant). Similarly, SVOCs have not been detected at appreciable levels since 2005 where the highest levels were detected in the upstream location, excluding the April 2016 monitoring event which had insignificant estimated SVOC TIC concentrations. Based on the sediment monitoring data, VOCs and SVOCs do not appear to be Site contaminants of concern and TRC recommends petitioning NYSDEC to discontinue sediment sampling and testing for VOCs and SVOCs at the Site.

The contaminant data trends for metals in sediment remain generally steady or on a slight upward trend for most elements. In particular, iron, nickel, and zinc levels appear to be demonstrating an upward trend since the 2013 monitoring event. Zinc was the only metal to exceed Class C SGVs during this round of monitoring at SD-2 but its concentration actually decreased slightly from the previous sampling event.

Landfill Gas

Methane was detected at the openings of gas vents GV-1 (0.6%), GV-2 (2.8%), and GV-3 (0.3%). None of the detected methane levels equaled or exceeded the LEL for methane. Methane, hydrogen sulfide, carbon monoxide, and VOCs were not detected at either the upwind or downwind perimeters of the Site. Based on these monitoring results, the landfill gas does not present a hazard to human health or safety.

Please contact me at (860) 298-6233 or JPeronto@trcsolutions.com with any questions or comments on this report.

Sincerely,

TRC Engineers, Inc.

James Peronto, P.E.
Program Manager

cc: K. Myers, TRC
J. Robinson, TRC

Attachments:

Figures

Figure 1 – Site Location Map
Figure 2 – Site Map and Sample/Monitoring Locations

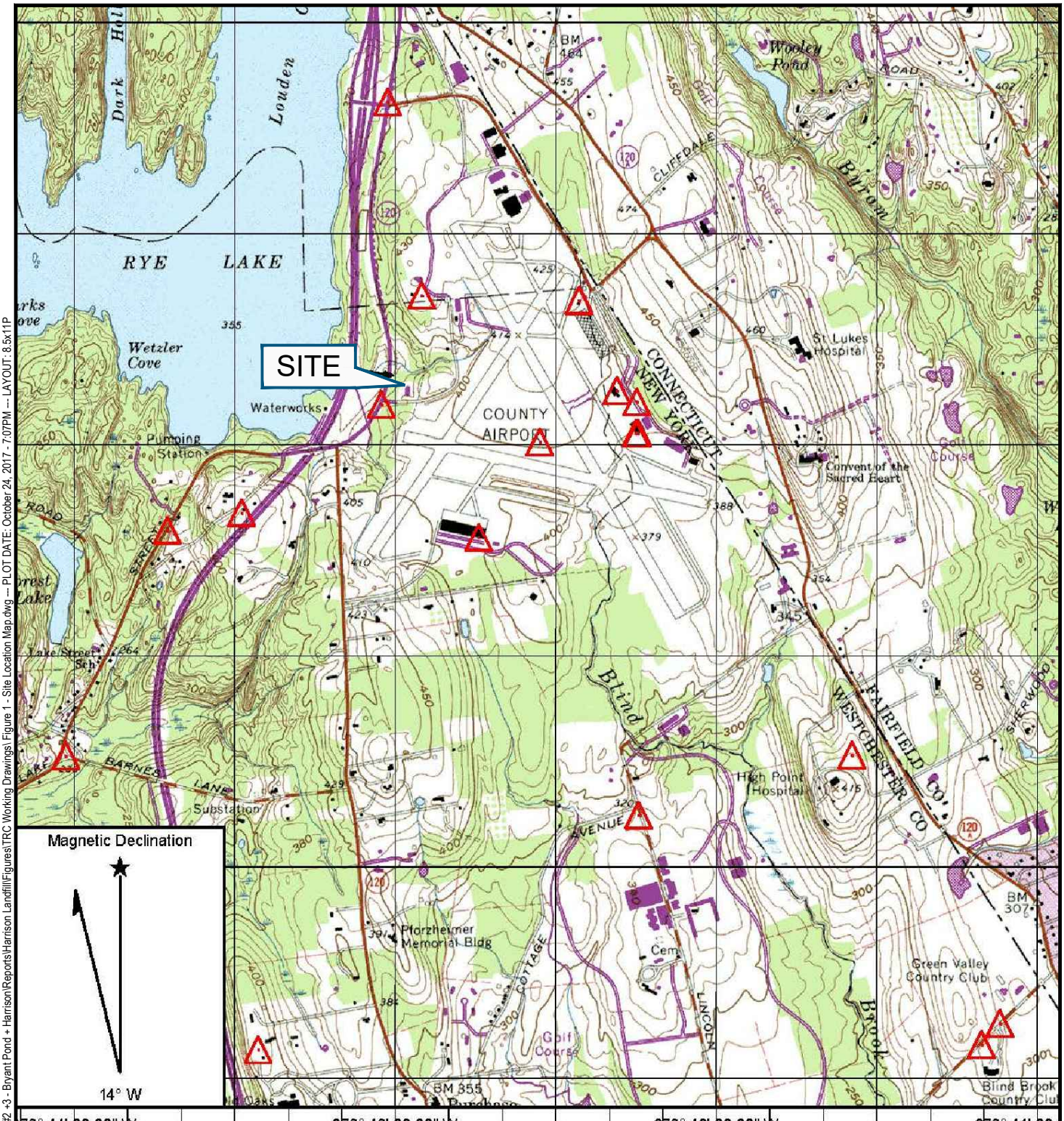
Tables

Table 1 – Summary of Groundwater Sample Analytical Results for Volatile Organic Compounds
Table 2 – Summary of Groundwater Sample Analytical Results for Semivolatile Organic Compounds
Table 3 – Summary of Groundwater Sample Analytical Results for Metals
Table 4 – Summary of Surface Water Sample Analytical Results for Volatile Organic Compounds
Table 5 – Summary of Surface Water Sample Analytical Results for Semivolatile Organic Compounds
Table 6 – Summary of Surface Water Sample Analytical Results for Metals
Table 7 – Summary of Sediment Sample Analytical Results for Volatile Organic Compounds
Table 8 – Summary of Sediment Sample Analytical Results for Semivolatile Organic Compounds
Table 9 – Summary of Sediment Sample Analytical Results for Metals

Appendices

Appendix A – Sampling Logs
Appendix B – Waste Disposal Documentation
Appendix C – Laboratory Data Report
Appendix D – Selected Analyte Data Trends

FIGURES



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

TRC
1430 Broadway
10th Floor
New York, NY 10018
Phone: 212.221.7822

PROJECT: **NEW YORK STATE DEPARTMENT OF TRANSPORTATION**
PIN 8806.51.101 - HARRISON LANDFILL AREA
HARRISON SUB-RESIDENCY
WEST HARRISON, NEW YORK

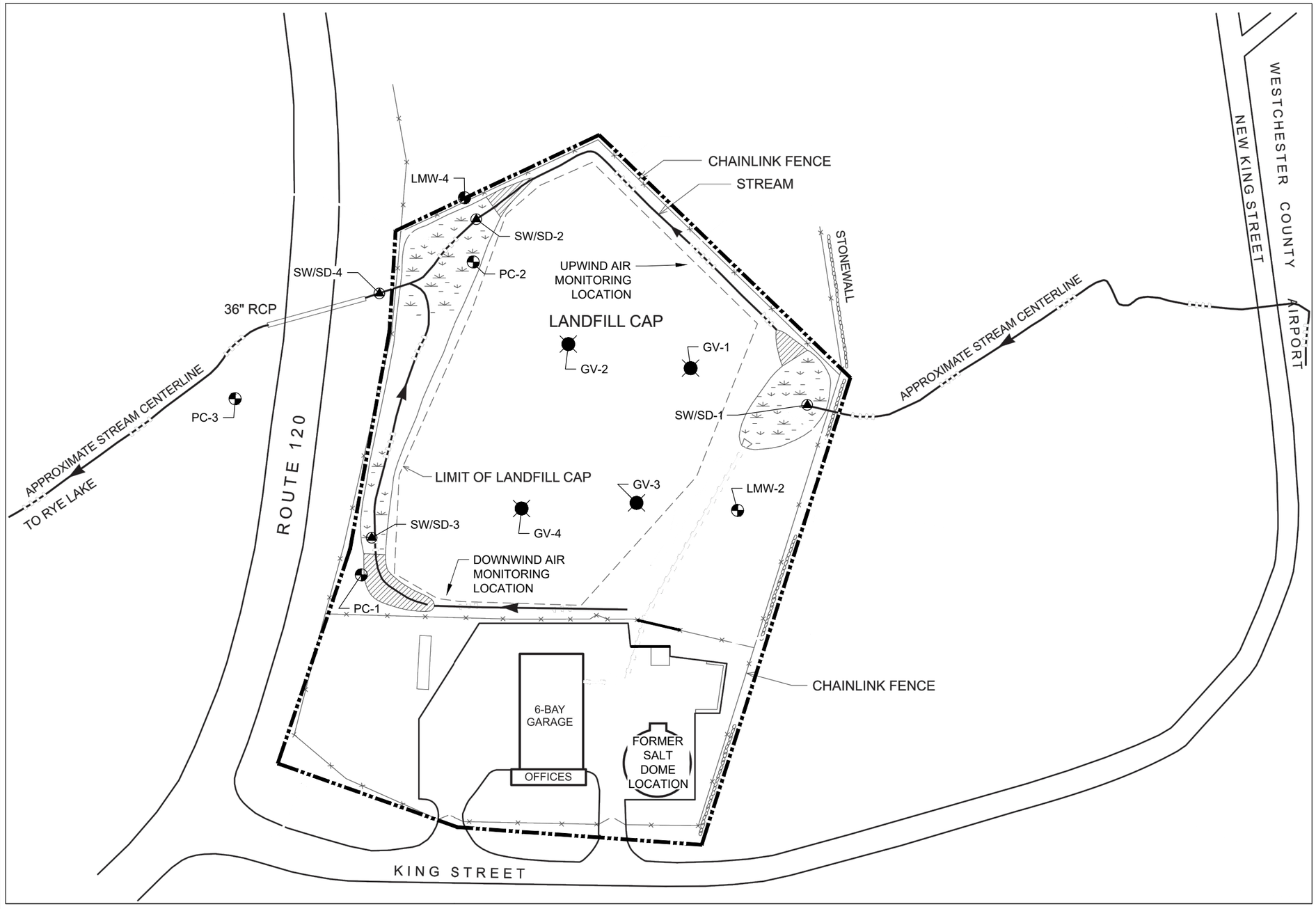
TITLE:

SITE LOCATION MAP

DRAWN BY:	H. DELGADO
CHECKED BY:	J. ROBINSON
APPROVED BY:	J. PERONTO
DATE:	OCTOBER 2017
PROJ. NO.:	280089.0001.0000
FILE:	Figure 1 - Site Location Map.dwg

FIGURE 1

8.5x11 --- ATTACHED XREFS: --- ATTACHED IMAGES: Harrison Landfill Figures, Page_1:
DRAWING NAME: i:\Projects\NYSDOT - D031371\Assignments #2 +3 - Bryant Pond + Harrison\Reports\Harrison Landfill\Figures\TRC Working Drawings\ Figure 1 - Site Location Map.dwg --- PLOT DATE: October 24, 2017 - 7:07PM --- LAYOUT: 8.5x11P



LEGEND (SYMBOLS NOT TO SCALE):

- SITE BOUNDARY
- LMW-X OR PC-X — MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- SW/SD-X — SURFACE WATER AND SEDIMENT SAMPLING LOCATION AND IDENTIFICATION NUMBER
- GV-X — LANDFILL GAS VENT LOCATION AND IDENTIFICATION NUMBER

N

NOTES:

1. FIGURE SOURCE: HDR ENGINEERING, INC. 5TH QUARTER MONITORING REPORT DATED JUNE 1, 2016.

0 100' 200'

SCALE: 1" = 100'
SHEET SIZE: 11" BY 17"

PROJECT:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PIN 8806.51.101 - HARRISON LANDFILL AREA
HARRISON SUB-RESIDENCY
WEST HARRISON, NEW YORK

TITLE:
SITE MAP AND SAMPLING/MONITORING LOCATIONS

DRAWN BY:	H. DELGADO	PROJ NO.:	280089.0000.0000
CHECKED BY:	J. ROBINSON		
APPROVED BY:	J. PERONTO		**FIGURE 2**
DATE:	OCTOBER 2017		

TRC
1430 Broadway
10th Floor
New York, NY 10018
Phone: 212.221.7822

FILE NO.: Figure 2 - Site Map and Sampling-Monitoring Locations.dwg

TABLES

Table 1
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Groundwater Sample Analytical Results for Volatile Organic Compounds

	CLIENT ID:	LMW-2-201707		LMW-4-201707		PC-1-201707		PC-FD-201707[4]		PC-2-201707		PC-3-201707		TRIP BLANKS	
	LAB ID:	AC98905-001/2		AC98905-003/4		AC98940-001/2		AC98940-003/4		AC98905-005/6		AC98940-005/6		VARIOUS	
	COLLECTION DATE:	7/10/2017		7/10/2017		7/12/2017		7/12/2017		7/10/2017		7/12/2017		7/11/17 - 7/12/17	
Volatile Organic Compounds	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
1,1,1-Trichloroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2-Trichloroethane	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,3-Trichlorobenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dibromo-3-chloropropane	0.04	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dibromoethane	6.00E-04	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichlorobenzene	3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichloroethane	0.6	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloropropane	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,3-Dichlorobenzene	3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,4-Dichlorobenzene	3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,4-Dioxane	NS	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
2-Butanone	50	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
2-Hexanone	50	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
4-Methyl-2-pentanone	NS	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Acetone	50	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	1	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Bromochloromethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	50	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromoform	50	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromomethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Carbon disulfide	60	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Carbon tetrachloride	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Chlorobenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Chloroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Chloroform	7	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Chloromethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
cis-1,3-Dichloropropene	0.4[2]	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Cyclohexane	NS	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1

Table 1
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Groundwater Sample Analytical Results for Volatile Organic Compounds

	CLIENT ID:	LMW-2-201707		LMW-4-201707		PC-1-201707		PC-FD-201707[4]		PC-2-201707		PC-3-201707		TRIP BLANKS	
	LAB ID:	AC98905-001/2		AC98905-003/4		AC98940-001/2		AC98940-003/4		AC98905-005/6		AC98940-005/6		VARIOUS	
	COLLECTION DATE:	7/10/2017		7/10/2017		7/12/2017		7/12/2017		7/10/2017		7/12/2017		7/11/17 - 7/12/17	
Volatile Organic Compounds	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
Dibromochloromethane	50	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Dichlorodifluoromethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Ethylbenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Isopropylbenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
m&p-Xylenes	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Methyl Acetate	NS	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Methylcyclohexane	NS	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Methylene chloride	5	ND	1	ND	1	ND	1	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	ND	0.5	ND	0.5	ND	0.5
o-Xylene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Styrene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Tetrachloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Toluene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,2-Dichloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,3-Dichloropropene	0.4[2]	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Trichloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Trichlorofluoromethane	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Vinyl chloride	2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Xylenes (Total)	5[3]	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Total VOCs	NS	0	-	0	-	0	-	0	-	0	-	0	-	0	-

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) - 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene.

(3) -There is no GA value for total xylenes. The standards for o-xylene, m-xylene, and p-xylene is 5 µg/L

(4) - PC-FD-201707 is a blind duplicate of PC-1-201707

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

Table 2
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Groundwater Sample Analytical Results for Semivolatile Organic Compounds

	CLIENT ID:	LMW-2-201707		LMW-4-201707		PC-1-201707		PC-FD-201707[2]		PC-2-201707		PC-3-201707	
	LAB ID:	AC98905-001/2		AC98905-003/4		AC98940-001/2		AC98940-003/4		AC98905-005/6		AC98940-005/6	
	COLLECTION DATE:	7/10/2017		7/10/2017		7/12/2017		7/12/2017		7/10/2017		7/12/2017	
Semivolatile Organic Compounds	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
1,1'-Biphenyl	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
1,2,4,5-Tetrachlorobenzene	10	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2,3,4,6-Tetrachlorophenol	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2,4,5-Trichlorophenol	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2,4,6-Trichlorophenol	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2,4-Dichlorophenol	1	ND	0.87	ND	0.89	ND	0.89	ND	0.89	ND	0.85	ND	0.89
2,4-Dimethylphenol	1	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
2,4-Dinitrophenol	1	ND	11	ND	11	ND	11	ND	11	ND	11	ND	11
2,4-Dinitrotoluene	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2,6-Dinitrotoluene	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2-Chloronaphthalene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2-Chlorophenol	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2-Methylnaphthalene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2-Methylphenol	NS	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
2-Nitroaniline	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
2-Nitrophenol	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
3&4-Methylphenol	NS	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
3,3'-Dichlorobenzidine	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
3-Nitroaniline	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
4,6-Dinitro-2-methylphenol	NS	ND	11	ND	11	ND	11	ND	11	ND	11	ND	11
4-Bromophenyl-phenylether	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
4-Chloro-3-methylphenol	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
4-Chloroaniline	5	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
4-Chlorophenyl-phenylether	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
4-Nitroaniline	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
4-Nitrophenol	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Acenaphthene	20	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Acenaphthylene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Acetophenone	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Anthracene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Atrazine	7.5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Benzaldehyde	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Benzo[a]anthracene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Benzo[a]pyrene	ND	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Benzo[b]fluoranthene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Benzo[g,h,i]perylene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Benzo[k]fluoranthene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
bis(2-Chloroethoxy)methane	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
bis(2-Chloroethyl)ether	1	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
bis(2-Chloroisopropyl)ether	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
bis(2-Ethylhexyl)phthalate	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Butylbenzylphthalate	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2

Table 2
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Groundwater Sample Analytical Results for Semivolatile Organic Compounds

	CLIENT ID:	LMW-2-201707		LMW-4-201707		PC-1-201707		PC-FD-201707[2]		PC-2-201707		PC-3-201707	
	LAB ID:	AC98905-001/2		AC98905-003/4		AC98940-001/2		AC98940-003/4		AC98905-005/6		AC98940-005/6	
	COLLECTION DATE:	7/10/2017		7/10/2017		7/12/2017		7/12/2017		7/10/2017		7/12/2017	
Semivolatile Organic Compounds	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
Caprolactam	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Carbazole	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Chrysene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Dibenzo[a,h]anthracene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Dibenzofuran	NS	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
Diethylphthalate	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Dimethylphthalate	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Di-n-butylphthalate	50	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
Di-n-octylphthalate	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Fluoranthene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Fluorene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Hexachlorobenzene	0.04	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Hexachlorobutadiene	0.5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Hexachlorocyclopentadiene	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Hexachloroethane	5	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Indeno[1,2,3-cd]pyrene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Isophorone	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Naphthalene	NS	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
Nitrobenzene	0.4	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
N-Nitroso-di-n-propylamine	NS	ND	0.54	ND	0.56	ND	0.56	ND	0.56	ND	0.53	ND	0.56
N-Nitrosodiphenylamine	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Pentachlorophenol	1	ND	11	ND	11	ND	11	ND	11	ND	11	ND	11
Phenanthrene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Phenol	1	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Pyrene	NS	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.1	ND	2.2
Total SVOCs	NS	0	-	0	-	0	-	0	-	0	-	0	-

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) - PC-FD-201707 is a blind duplicate of PC-1-201707

NS - No Standard

ND - Analyte not detected at the listed reporting limit

Shaded and bolded values exceed regulatory criteria

Table 3
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Groundwater Sample Analytical Results for Metals, Cyanide and Chloride

	CLIENT ID:	LMW-2-201707		LMW-4-201707		PC-1-201707		PC-FD-201707[3]		PC-2-201707		PC-3-201707	
	LAB ID:	AC98905-001/2		AC98905-003/4		AC98940-001/2		AC98940-003/4		AC98905-005/6		AC98940-005/6	
	COLLECTION DATE:	7/10/2017		7/10/2017		7/12/2017		7/12/2017		7/10/2017		7/12/2017	
Metals, Cyanide, and Chloride	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
Aluminum	2,000	ND	200	1,200	200	210	200	ND	200	ND	200	ND	200
Antimony	3	ND	3	ND	3	ND	3	ND	3	ND	3	ND	3
Arsenic	25	ND	2	4.2	2	ND	2	ND	2	ND	2	ND	2
Barium	1,000	85	50	180	50	180	50	170	50	140	50	140	50
Beryllium	3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium	5	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Calcium	NS	60,000	5,000	43,000	5,000	170,000	5,000	170,000	5,000	84,000	5,000	72,000	5,000
Chromium	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Cobalt	NS	ND	2	7	2	ND	2	ND	2	ND	2	ND	2
Copper	200	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Iron	300 / 500[2]	ND	300	**110,000**	300	**1,400**	300	**1,400**	300	**62,000**	300	**350**	300
Lead	25	ND	3	ND	3	ND	3	ND	3	ND	3	ND	3
Magnesium	35,000	22,000	5,000	17,000	5,000	24,000	5,000	23,000	5,000	20,000	5,000	19,000	5,000
Manganese	300 / 500[2]	ND	40	**12,000**	40	**1,500**	40	**1,500**	40	**10,000**	40	240	40
Mercury	0.7	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Nickel	100	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Potassium	NS	ND	5,000	ND	5,000	6,300	5,000	6,100	5,000	ND	5,000	5,600	5,000
Selenium	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Silver	50	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Sodium	20,000	**22,000**	5,000	**28,000**	5,000	**160,000**	5,000	**150,000**	5,000	**36,000**	5,000	**81,000**	5,000
Thallium	0.5	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium	NS	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Zinc	2,000	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Cyanide	200	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Chloride	NS	15,000	2,000	16,000	2,000	260,000	20,000	260,000	20,000	18,000	2,000	ND	20

Notes
(1) - NYSDEC Class GA Standards and Guidance Values are from Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, revised April 2000.
(2) - Standard of 500 µg/L applies to the sum of Iron and Manganese
(3) - PC-FD-201707 is a blind duplicate of PC-1-201707
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 Class GA Standards

Table 4
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Surface Water Sample Analytical Results for Volatile Organic Compounds

	CLIENT ID:	SW-1-201707		SW-2-201707		SW-4-201707		SW-FD-201707[4]		TRIP BLANKS	
	LAB ID:	AC98905-013		AC98905-010		AC98905-007		AC98905-019		VARIOUS	
	COLLECTION DATE:	7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017 - 7/12/17	
Volatile Organic Compounds	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
1,1,1-Trichloroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2-Trichloroethane	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,3-Trichlorobenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dibromo-3-chloropropane	0.04	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dibromoethane	6.00E-04	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichlorobenzene	3	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichloroethane	0.6	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloropropane	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,3-Dichlorobenzene	3	ND	1	ND	1	ND	1	ND	1	ND	1
1,4-Dichlorobenzene	3	ND	1	ND	1	ND	1	ND	1	ND	1
1,4-Dioxane	NS	ND	50	ND	50	ND	50	ND	50	ND	50
2-Butanone	50	ND	1	ND	1	ND	1	ND	1	ND	1
2-Hexanone	50	ND	1	ND	1	ND	1	ND	1	ND	1
4-Methyl-2-pentanone	NS	ND	1	ND	1	ND	1	ND	1	ND	1
Acetone	50	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	1	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Bromochloromethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	50	ND	1	ND	1	ND	1	ND	1	ND	1
Bromoform	50	ND	1	ND	1	ND	1	ND	1	ND	1
Bromomethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
Carbon disulfide	60	ND	1	ND	1	ND	1	ND	1	ND	1
Carbon tetrachloride	5	ND	1	ND	1	ND	1	ND	1	ND	1
Chlorobenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1
Chloroethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
Chloroform	7	ND	1	ND	1	ND	1	ND	1	ND	1
Chloromethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1
cis-1,3-Dichloropropene	0.4 [2]	ND	1	ND	1	ND	1	ND	1	ND	1
Cyclohexane	NS	ND	1	ND	1	ND	1	ND	1	ND	1
Dibromochloromethane	50	ND	1	ND	1	ND	1	ND	1	ND	1
Dichlorodifluoromethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
Ethylbenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1

Table 4
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Surface Water Sample Analytical Results for Volatile Organic Compounds

	CLIENT ID:	SW-1-201707		SW-2-201707		SW-4-201707		SW-FD-201707[4]		TRIP BLANKS	
	LAB ID:	AC98905-013		AC98905-010		AC98905-007		AC98905-019		VARIOUS	
	COLLECTION DATE:	7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017 - 7/12/17	
Volatile Organic Compounds	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
Isopropylbenzene	5	ND	1	ND	1	ND	1	ND	1	ND	1
m&p-Xylenes	5 [3]	ND	1	ND	1	ND	1	ND	1	ND	1
Methyl Acetate	NS	ND	1	ND	1	ND	1	ND	1	ND	1
Methylcyclohexane	NS	ND	1	ND	1	ND	1	ND	1	ND	1
Methylene chloride	5	ND	1	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	ND	0.5
o-Xylene	5 [3]	ND	1	ND	1	ND	1	ND	1	ND	1
Styrene	5	ND	1	ND	1	ND	1	ND	1	ND	1
Tetrachloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1
Toluene	5	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,2-Dichloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,3-Dichloropropene	0.4 [2]	ND	1	ND	1	ND	1	ND	1	ND	1
Trichloroethene	5	ND	1	ND	1	ND	1	ND	1	ND	1
Trichlorofluoromethane	5	ND	1	ND	1	ND	1	ND	1	ND	1
Vinyl chloride	2	ND	1	ND	1	ND	1	ND	1	ND	1
Xylenes (Total)	5 [3]	ND	1	ND	1	ND	1	ND	1	ND	1
Total VOCs	NS	0	-	0	-	0	-	0	-	0	-

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) - 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene.
(3) -There is no GA value for total xylenes. The standards for o-xylene, m-xylene, and p-xylene is 5 µg/L
(4) - SW-FD-201707 is a blind duplicate of SW-2-201707
NYSDEC Class A Standards are applicable but are not listed as no VOCs were detected in any surface water samples
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

Table 5
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Surface Water Sample Analytical Results for Semivolatile Organic Compounds

	CLIENT ID:	SW-1-201707		SW-2-201707		SW-4-201707		SW-FD-201707[2]	
	LAB ID:	AC98905-013		AC98905-010		AC98905-007		AC98905-019	
	COLLECTION DATE:	7/11/2017		7/11/2017		7/11/2017		7/11/2017	
Semivolatile Organic Compounds	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
1,1'-Biphenyl	NS	ND	2.1	ND	2	ND	2.2	ND	2
1,2,4,5-Tetrachlorobenzene	10	ND	2.1	ND	2	ND	2.2	ND	2
2,3,4,6-Tetrachlorophenol	NS	ND	2.1	ND	2	ND	2.2	ND	2
2,4,5-Trichlorophenol	NS	ND	2.1	ND	2	ND	2.2	ND	2
2,4,6-Trichlorophenol	NS	ND	2.1	ND	2	ND	2.2	ND	2
2,4-Dichlorophenol	1	ND	0.84	ND	0.8	ND	0.89	ND	0.8
2,4-Dimethylphenol	1	ND	0.53	ND	0.5	ND	0.56	ND	0.5
2,4-Dinitrophenol	1	ND	11	ND	10	ND	11	ND	10
2,4-Dinitrotoluene	5	ND	2.1	ND	2	ND	2.2	ND	2
2,6-Dinitrotoluene	5	ND	2.1	ND	2	ND	2.2	ND	2
2-Chloronaphthalene	NS	ND	2.1	ND	2	ND	2.2	ND	2
2-Chlorophenol	NS	ND	2.1	ND	2	ND	2.2	ND	2
2-Methylnaphthalene	NS	ND	2.1	ND	2	ND	2.2	ND	2
2-Methylphenol	NS	ND	0.53	ND	0.5	ND	0.56	ND	0.5
2-Nitroaniline	5	ND	2.1	ND	2	ND	2.2	ND	2
2-Nitrophenol	NS	ND	2.1	ND	2	ND	2.2	ND	2
3&4-Methylphenol	NS	ND	0.53	ND	0.5	ND	0.56	ND	0.5
3,3'-Dichlorobenzidine	5	ND	2.1	ND	2	ND	2.2	ND	2
3-Nitroaniline	5	ND	2.1	ND	2	ND	2.2	ND	2
4,6-Dinitro-2-methylphenol	NS	ND	11	ND	10	ND	11	ND	10
4-Bromophenyl-phenylether	NS	ND	2.1	ND	2	ND	2.2	ND	2
4-Chloro-3-methylphenol	NS	ND	2.1	ND	2	ND	2.2	ND	2
4-Chloroaniline	5	ND	0.53	ND	0.5	ND	0.56	ND	0.5
4-Chlorophenyl-phenylether	NS	ND	2.1	ND	2	ND	2.2	ND	2
4-Nitroaniline	5	ND	2.1	ND	2	ND	2.2	ND	2
4-Nitrophenol	NS	ND	2.1	ND	2	ND	2.2	ND	2
Acenaphthene	20	ND	2.1	ND	2	ND	2.2	ND	2
Acenaphthylene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Acetophenone	NS	ND	2.1	ND	2	ND	2.2	ND	2
Anthracene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Atrazine	7.5	ND	2.1	ND	2	ND	2.2	ND	2
Benzaldehyde	NS	ND	2.1	ND	2	ND	2.2	ND	2
Benzo[a]anthracene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Benzo[a]pyrene	ND	ND	2.1	ND	2	ND	2.2	ND	2
Benzo[b]fluoranthene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Benzo[g,h,i]perylene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Benzo[k]fluoranthene	NS	ND	2.1	ND	2	ND	2.2	ND	2
bis(2-Chloroethoxy)methane	5	ND	2.1	ND	2	ND	2.2	ND	2
bis(2-Chloroethyl)ether	1	ND	0.53	ND	0.5	ND	0.56	ND	0.5
bis(2-Chloroisopropyl)ether	5	ND	2.1	ND	2	ND	2.2	ND	2
bis(2-Ethylhexyl)phthalate	5	ND	2.1	ND	2	ND	2.2	ND	2
Butylbenzylphthalate	NS	ND	2.1	ND	2	ND	2.2	ND	2
Caprolactam	NS	ND	2.1	ND	2	ND	2.2	ND	2
Carbazole	NS	ND	2.1	ND	2	ND	2.2	ND	2
Chrysene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Dibenzo[a,h]anthracene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Dibenzofuran	NS	ND	0.53	ND	0.5	ND	0.56	ND	0.5
Diethylphthalate	NS	ND	2.1	ND	2	ND	2.2	ND	2
Dimethylphthalate	NS	ND	2.1	ND	2	ND	2.2	ND	2
Di-n-butylphthalate	50	ND	0.53	ND	0.5	ND	0.56	ND	0.5
Di-n-octylphthalate	NS	ND	2.1	ND	2	ND	2.2	ND	2
Fluoranthene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Fluorene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Hexachlorobenzene	0.04	ND	2.1	ND	2	ND	2.2	ND	2
Hexachlorobutadiene	0.5	ND	2.1	ND	2	ND	2.2	ND	2
Hexachlorocyclopentadiene	5	ND	2.1	ND	2	ND	2.2	ND	2
Hexachloroethane	5	ND	2.1	ND	2	ND	2.2	ND	2
Indeno[1,2,3-cd]pyrene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Isophorone	NS	ND	2.1	ND	2	ND	2.2	ND	2
Naphthalene	NS	ND	0.53	ND	0.5	ND	0.56	ND	0.5

Table 5
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Surface Water Sample Analytical Results for Semivolatile Organic Compounds

	CLIENT ID:	SW-1-201707		SW-2-201707		SW-4-201707		SW-FD-201707[2]	
	LAB ID:	AC98905-013		AC98905-010		AC98905-007		AC98905-019	
	COLLECTION DATE:	7/11/2017		7/11/2017		7/11/2017		7/11/2017	
Semivolatile Organic Compounds	NYSDEC Class GA Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
Nitrobenzene	0.4	ND	2.1	ND	2	ND	2.2	ND	2
N-Nitroso-di-n-propylamine	NS	ND	0.53	ND	0.5	ND	0.56	ND	0.5
N-Nitrosodiphenylamine	NS	ND	2.1	ND	2	ND	2.2	ND	2
Pentachlorophenol	1	ND	11	ND	10	ND	11	ND	10
Phenanthrene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Phenol	1	ND	2.1	ND	2	ND	2.2	ND	2
Pyrene	NS	ND	2.1	ND	2	ND	2.2	ND	2
Total SVOCs	NS	0	-	0	-	0	-	0	-

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) - SW-FD-201707 is a blind duplicate of SW-2-201707
NYSDEC Class A Standards are applicable but are not listed as no SVOCs were detected in any surface water samples
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

Table 6
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Surface Water Sample Analytical Results for Metals, Cyanide, and Chloride

		CLIENT ID:	SW-1-201707		SW-2-201707	
		LAB ID:	AC98905-013		AC98905-010	
		COLLECTION DATE:	7/11/2017		7/11/2017	
Metals and Cyanide and Chloride	NYSDEC Class GA Standards[1] (µg/L)	NYSDEC A Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
Aluminum	NS	100 (A(C))	ND	200	ND	200
Antimony	3	3 (H(WS))	ND	3	ND	3
Arsenic	25	50 (H(WS)), 150 (A(C)), 340 (A(A))	ND	2	ND	2
Barium	1,000	1,000 (H(WS))	ND	50	ND	50
Beryllium	3	3 (DW), 1,100 (A(C))[2]	ND	1	ND	1
Cadmium	5	5 (H(WS), 4.4 (A(C))[2]	ND	2	ND	2
Calcium	NS	NS	39,000	5,000	36,000	5,000
Chromium	50	50 (H(WS)), 86 (A(C))[2]	ND	50	ND	50
Cobalt	NS	5 (A(C))	ND	2	ND	2
Copper	200	200 (H(WS)), 10 (A(C))[2], 16 (A(A))[2]	ND	50	ND	50
Cyanide	200	200 (H(WS)), 5.2 (A(C)), 22 (A(A)), 9,000 (H(FC))	ND	20	ND	20
Iron	300 / 500[3]	300 (A(C) & E)	**1,400**	300	**650**	300
Lead	25	50 (H(WS))	ND	3	ND	3
Magnesium	35,000	35,000 (H(WS))	11,000	5,000	9,900	5,000
Manganese	300 / 500[3]	300 (E)	**1,300**	40	**370**	40
Mercury	0.7	0.7 (H(WS)), 0.77 (A(C)), 1.4 (A(A)), 7e-4 (H(FC)), 2.6e-3 (W)	ND	0.5	ND	0.5
Nickel	100	100 (H(WS)), 60 (A(C))[2]	ND	50	ND	50
Potassium	NS	NS	ND	5,000	ND	5,000
Selenium	10	10 (H(WS)), 4.6 (A(C))	ND	10	ND	10
Silver	50	50 (H(WS))	ND	20	ND	20
Sodium	20,000	NS	9,000	5,000	10,000	5,000
Thallium	0.5	0.5 (H(WS)), 8 (A(C))	ND	2	ND	2
Vanadium	NS	14 (FP)	ND	50	ND	50
Zinc	2,000	2,000 (H(WS)), 96 (A(C))[2], 137 (A(A))[2]	ND	50	ND	50
Cyanide	200	200 (H(WS)), 5.2 (A(C)), 22 (A(A)), 9,000 (H(FC))	ND	20	ND	20
Chloride	250,000	250,000 (H(WS))	5,400	2,000	7,000	2,000
Hardness (listed in milligrams of CaCO3 per liter		NS	120	6.6	110	6.6

Notes
(1) - NYSDEC Class GA and Class A Standards & Guidance Values are from Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, revised April 2000.
(2) - Class A Standard(s) are based on hardness concentrations
(3) - Standard of 500 µg/L applies to the sum of Iron and Manganese
(4) - SW-FD-201707 is a blind duplicate of SW-2-201707
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 Class GA or Class A Standards or Guidance Values

NYSDEC Class A Standard Types:

A(C) - Fish Propogation	A(C)
H(WS) - Drinking Water	H(WS)
A(A) - Fish Survival	A(A)
H(FC) - Human Consumption of Fish	H(FC)
E - Aesthetic	E
W - Wildlife Protection	W

Table 6
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Surface Water Sample Analytical Results for Metals, Cyanide, and Chloride

		CLIENT ID:	SW-4-201707		SW-FD-201707[4]	
		LAB ID:	AC98905-007		AC98905-019	
		COLLECTION DATE:	7/11/2017		7/11/2017	
Metals and Cyanide and Chloride	NYSDEC Class GA Standards[1] (µg/L)	NYSDEC A Standards[1] (µg/L)	Result (µg/L)	RL (µg/L)	Result (µg/L)	RL (µg/L)
Aluminum	NS	100 (A(C))	**260**	200	**240**	200
Antimony	3	3 (H(WS))	ND	3	ND	3
Arsenic	25	50 (H(WS)), 150 (A(C)), 340 (A(A))	ND	2	ND	2
Barium	1,000	1,000 (H(WS))	ND	50	ND	50
Beryllium	3	3 (DW), 1,100 (A(C))[2]	ND	1	ND	1
Cadmium	5	5 (H(WS), 4.4 (A(C))[2]	ND	2	ND	2
Calcium	NS	NS	34,000	5,000	36,000	5,000
Chromium	50	50 (H(WS)), 86 (A(C))[2]	ND	50	ND	50
Cobalt	NS	5 (A(C))	ND	2	ND	2
Copper	200	200 (H(WS)), 10 (A(C))[2], 16 (A(A))[2]	ND	50	ND	50
Cyanide	200	200 (H(WS)), 5.2 (A(C)), 22 (A(A)), 9,000 (H(FC))	ND	20	ND	20
Iron	300 / 500[3]	300 (A(C) & E)	**980**	300	**430**	300
Lead	25	50 (H(WS))	ND	3	ND	3
Magnesium	35,000	35,000 (H(WS))	9,500	5,000	10,000	5,000
Manganese	300 / 500[3]	300 (E)	**700**	40	**240[(3)]**	40
Mercury	0.7	0.7 (H(WS)), 0.77 (A(C)), 1.4 (A(A)), 7e-4 (H(FC)), 2.6e-3 (W)	ND	0.5	ND	0.5
Nickel	100	100 (H(WS)), 60 (A(C))[2]	ND	50	ND	50
Potassium	NS	NS	ND	5,000	ND	5,000
Selenium	10	10 (H(WS)), 4.6 (A(C))	ND	10	ND	10
Silver	50	50 (H(WS))	ND	20	ND	20
Sodium	20,000	NS	13,000	5,000	10,000	5,000
Thallium	0.5	0.5 (H(WS)), 8 (A(C))	ND	2	ND	2
Vanadium	NS	14 (FP)	ND	50	ND	50
Zinc	2,000	2,000 (H(WS)), 96 (A(C))[2], 137 (A(A))[2]	ND	50	ND	50
Cyanide	200	200 (H(WS)), 5.2 (A(C)), 22 (A(A)), 9,000 (H(FC))	ND	20	ND	20
Chloride	250,000	250,000 (H(WS))	10,000	2,000	6,900	2,000
Hardness (listed in milligrams of CaCO3 per liter		NS	110	6.6	120	6.6

Notes
(1) - NYSDEC Class GA and Class A Standards & Guidance Values are from Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, revised April 2000.
(2) - Class A Standard(s) are based on hardness concentrations
(3) - Standard of 500 µg/L applies to the sum of Iron and Manganese
(4) - SW-FD-201707 is a blind duplicate of SW-2-201707
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 Class GA or Class A Standards or Gu

NYSDEC Class A Standard Types:

A(C) - Fish Propogation	A(C)
H(WS) - Drinking Water	H(WS)
A(A) - Fish Survival	A(A)
H(FC) - Human Consumption of Fish	H(FC)
E - Aesthetic	E
W - Wildlife Protection	W

Table 7
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Sediment Sample Analytical Results for Volatile Organic Compounds

	CLIENT ID:		SD-1-201707		SD-2-201707		SD-4-201707	
	LAB ID:		AC98905-015		AC98905-012		AC98905-009	
	COLLECTION DATE:		7/11/2017		7/11/2017		7/11/2017	
Volatile Organic Compounds	NYSDEC Class A SGV[1] (mg/kg)	NYSDEC Class C SGV[1] (mg/kg)	Result (mg/Kg)	RL (mg/Kg)	Result (mg/Kg)	RL (mg/Kg)	Result (mg/Kg)	RL (mg/Kg)
1,1,1-Trichloroethane	1.8	8.6	ND	0.0041	ND	0.03	ND	0.0031
1,1,2,2-Tetrachloroethane	9	18	ND	0.0041	ND	0.03	ND	0.0031
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
1,1,2-Trichloroethane	1.8	8.6	ND	0.0041	ND	0.03	ND	0.0031
1,1-Dichloroethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
1,1-Dichloroethene	0.52	4.7	ND	0.0041	ND	0.03	ND	0.0031
1,2,3-Trichlorobenzene	0.23	2.8	ND	0.0041	ND	0.03	ND	0.0031
1,2,4-Trichlorobenzene	35	55	ND	0.0041	ND	0.03	ND	0.0031
1,2-Dibromo-3-chloropropane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
1,2-Dibromoethane	NS	NS	ND	0.002	ND	0.015	ND	0.0016
1,2-Dichlorobenzene	0.28	2.5	ND	0.0041	ND	0.03	ND	0.0031
1,2-Dichloroethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
1,2-Dichloropropane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
1,3-Dichlorobenzene	1.8	7.1	ND	0.0041	ND	0.03	ND	0.0031
1,4-Dichlorobenzene	0.72	3.3	ND	0.0041	ND	0.03	ND	0.0031
1,4-Dioxane	NS	NS	ND	0.2	ND	1.5	ND	0.16
2-Butanone	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
2-Hexanone	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
4-Methyl-2-pentanone	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Acetone	NS	NS	ND	0.02	ND	0.15	ND	0.016
Benzene	0.53	1.9	ND	0.002	ND	0.015	ND	0.0016
Bromochloromethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Bromodichloromethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Bromoform	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Bromomethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Carbon disulfide	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Carbon tetrachloride	1.07	9.6	ND	0.0041	ND	0.03	ND	0.0031
Chlorobenzene	0.2	1.7	ND	0.0041	ND	0.03	ND	0.0031
Chloroethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Chloroform	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Chloromethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
cis-1,2-Dichloroethene	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
cis-1,3-Dichloropropene	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Cyclohexane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Dibromochloromethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Dichlorodifluoromethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Ethylbenzene	0.43	3.7	ND	0.002	ND	0.015	ND	0.0016
Isopropylbenzene	0.21	1.8	ND	0.002	ND	0.015	ND	0.0016
m&p-Xylenes	0.82	7.2	ND	0.002	ND	0.015	ND	0.0016
Methyl Acetate	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Methylcyclohexane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Methylene chloride	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Methyl-t-butyl ether	NS	NS	ND	0.002	ND	0.015	ND	0.0016
o-Xylene	0.48	4.2	ND	0.002	ND	0.015	ND	0.0016
Styrene	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Tetrachloroethene	16	57	ND	0.0041	ND	0.03	ND	0.0031
Toluene	0.93	4.5	ND	0.002	ND	0.015	ND	0.0016
trans-1,2-Dichloroethene	1.2	11	ND	0.0041	ND	0.03	ND	0.0031
trans-1,3-Dichloropropene	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Trichloroethene	1.8	8.6	ND	0.0041	ND	0.03	ND	0.0031
Trichlorofluoromethane	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Vinyl chloride	NS	NS	ND	0.0041	ND	0.03	ND	0.0031
Xylenes (Total)	0.59	5.2	ND	0.002	ND	0.015	ND	0.0016
Total VOCs	NS	NS	ND	-	ND	-	ND	-

Notes
(1) - NYSDEC Class A and Class C Sediment Guidance Values are from NYSDEC Bureau of Habitat Screeing and Assessment of Contaminated Sediment Guidance, dated June 24, 2014.
NS - No Standard
ND - Analyte not detected at the listed reporting limit
RL - Reporting Limit
mg/kg - milligrams per kilogram
Shaded and bolded values exceed regulatory criteria

Table 8
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Sediment Sample Analytical Results for Semivolatile Organic Compounds

	CLIENT ID:		SD-1-201707		SD-2-201707		SD-4-201707	
	LAB ID:		AC98905-015		AC98905-012		AC98905-009	
	COLLECTION DATE:		7/11/2017		7/11/2017		7/11/2017	
Semivolatile Organic Compounds	NYSDEC Class A SGV[1] (mg/kg)	NYSDEC Class C SGV[1] (mg/kg)	Result (mg/Kg)	RL (mg/Kg)	Result (mg/Kg)	RL (mg/Kg)	Result (mg/Kg)	RL (mg/Kg)
1,1'-Biphenyl	NS	NS	ND	0.069	ND	0.28	ND	0.049
1,2,4,5-Tetrachlorobenzene	1	5.3	ND	0.069	ND	0.28	ND	0.049
2,3,4,6-Tetrachlorophenol	NS	NS	ND	0.069	ND	0.28	ND	0.049
2,4,5-Trichlorophenol	NS	NS	ND	0.069	ND	0.28	ND	0.049
2,4,6-Trichlorophenol	NS	NS	ND	0.069	ND	0.28	ND	0.049
2,4-Dichlorophenol	NS	NS	ND	0.017	ND	0.069	ND	0.012
2,4-Dimethylphenol	NS	NS	ND	0.017	ND	0.069	ND	0.012
2,4-Dinitrophenol	NS	NS	ND	0.35	ND	1.4	ND	0.25
2,4-Dinitrotoluene	NS	NS	ND	0.069	ND	0.28	ND	0.049
2,6-Dinitrotoluene	NS	NS	ND	0.069	ND	0.28	ND	0.049
2-Chloronaphthalene	NS	NS	ND	0.069	ND	0.28	ND	0.049
2-Chlorophenol	NS	NS	ND	0.069	ND	0.28	ND	0.049
2-Methylnaphthalene	NS	NS	ND	0.069	ND	0.28	ND	0.049
2-Methylphenol	NS	NS	ND	0.017	ND	0.069	ND	0.012
2-Nitroaniline	NS	NS	ND	0.069	ND	0.28	ND	0.049
2-Nitrophenol	NS	NS	ND	0.069	ND	0.28	ND	0.049
3&4-Methylphenol	NS	NS	ND	0.017	ND	0.069	ND	0.012
3,3'-Dichlorobenzidine	NS	NS	ND	0.069	ND	0.28	ND	0.049
3-Nitroaniline	NS	NS	ND	0.069	ND	0.28	ND	0.049
4,6-Dinitro-2-methylphenol	NS	NS	ND	0.35	ND	1.4	ND	0.25
4-Bromophenyl-phenylether	NS	NS	ND	0.069	ND	0.28	ND	0.049
4-Chloro-3-methylphenol	NS	NS	ND	0.069	ND	0.28	ND	0.049
4-Chloroaniline	NS	NS	ND	0.017	ND	0.069	ND	0.012
4-Chlorophenyl-phenylether	NS	NS	ND	0.069	ND	0.28	ND	0.049
4-Nitroaniline	NS	NS	ND	0.069	ND	0.28	ND	0.049
4-Nitrophenol	NS	NS	ND	0.069	ND	0.28	ND	0.049
Acenaphthene*	9.04		ND	0.069	ND	0.28	ND	0.049
Acenaphthylene*	9.82		ND	0.069	ND	0.28	ND	0.049
Acetophenone	NS	NS	ND	0.069	ND	0.28	ND	0.049
Anthracene*	11.88		ND	0.069	ND	0.28	ND	0.049
Atrazine	NS	NS	ND	0.069	ND	0.28	ND	0.049
Benzaldehyde	NS	NS	ND	0.069	ND	0.28	ND	0.049
Benzo[a]anthracene*	16.82		0.095	0.069	ND	0.28	ND	0.049
Benzo[a]pyrene*	19.28		0.12	0.069	ND	0.28	ND	0.049
Benzo[b]fluoranthene*	19.58		0.19	0.069	0.41	0.28	ND	0.049
Benzo[g,h,i]perylene*	21.90		0.11	0.069	ND	0.28	ND	0.049
Benzo[k]fluoranthene*	19.60		ND	0.069	ND	0.28	ND	0.049
bis(2-Chloroethoxy)methane	NS	NS	ND	0.069	ND	0.28	ND	0.049
bis(2-Chloroethyl)ether	NS	NS	ND	0.017	ND	0.069	ND	0.012
bis(2-Chloroisopropyl)ether	NS	NS	ND	0.069	ND	0.28	ND	0.049
bis(2-Ethylhexyl)phthalate	360	360	ND	0.069	ND	0.28	ND	0.049
Butylbenzylphthalate	NS	NS	ND	0.069	ND	0.28	ND	0.049
Caprolactam	NS	NS	ND	0.069	ND	0.28	ND	0.049
Carbazole	NS	NS	ND	0.069	ND	0.28	ND	0.049
Chrysene*	16.86		0.13	0.069	0.3	0.28	ND	0.049
Dibenzo[a,h]anthracene*	22.44		ND	0.069	ND	0.28	ND	0.049
Dibenzofuran	NS	NS	ND	0.017	ND	0.069	ND	0.012
Diethylphthalate	NS	NS	ND	0.069	ND	0.28	ND	0.049
Dimethylphthalate	NS	NS	ND	0.069	ND	0.28	ND	0.049
Di-n-butylphthalate	NS	NS	ND	0.017	ND	0.069	ND	0.012

Table 8
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Sediment Sample Analytical Results for Semivolatile Organic Compounds

	CLIENT ID:		SD-1-201707		SD-2-201707		SD-4-201707	
	LAB ID:		AC98905-015		AC98905-012		AC98905-009	
	COLLECTION DATE:		7/11/2017		7/11/2017		7/11/2017	
Semivolatile Organic Compounds	NYSDEC Class A SGV[1] (mg/kg)	NYSDEC Class C SGV[1] (mg/kg)	Result (mg/Kg)	RL (mg/Kg)	Result (mg/Kg)	RL (mg/Kg)	Result (mg/Kg)	RL (mg/Kg)
Di-n-octylphthalate	NS	NS	ND	0.069	ND	0.28	ND	0.049
Fluoranthene*	14.16		0.17	0.069	0.41	0.28	ND	0.049
Fluorene*	10.78		ND	0.069	ND	0.28	ND	0.049
Hexachlorobenzene	NS	NS	ND	0.069	ND	0.28	ND	0.049
Hexachlorobutadiene	1.2	12	ND	0.069	ND	0.28	ND	0.049
Hexachlorocyclopentadiene	0.81	8.1	ND	0.16	ND	0.65	ND	0.12
Hexachloroethane	NS	NS	ND	0.069	ND	0.28	ND	0.049
Indeno[1,2,3-cd]pyrene*	22.30		0.086	0.069	ND	0.28	ND	0.049
Isophorone	NS	NS	ND	0.069	ND	0.28	ND	0.049
Naphthalene*	7.70		ND	0.017	ND	0.069	ND	0.012
Nitrobenzene	NS	NS	ND	0.069	ND	0.28	ND	0.049
N-Nitroso-di-n-propylamine	NS	NS	ND	0.017	ND	0.069	ND	0.012
N-Nitrosodiphenylamine	NS	NS	ND	0.069	ND	0.28	ND	0.049
Pentachlorophenol	14	19	ND	0.35	ND	1.4	ND	0.25
Phenanthrene*	14.90		ND	0.069	ND	0.28	ND	0.049
Phenol	NS	NS	ND	0.069	ND	0.28	ND	0.049
Pyrene*	13.96		0.2	0.069	0.49	0.28	ND	0.049
Total PAHs (16 Sampled)[2]	4,000	35,000	10.2	-	15.0	-	0.0	-
Total SVOCs	NS	NS	1.1	-	1.6	-	0.0	-

Notes
(1) - NYSDEC Class A and Class C Sediment Guidance Values are from NYSDEC Bureau of Habitat Screeing and Assessment of Contaminated Sediment Guidance, Table 5, dated June 24, 2014.
(2) - The correction Factor (or multiplier) for Total PAH comparison when 16 of 34 PAHs are sampled is 9.3 (see above guidance Section A, Page 27)
* - These compounds are PAHs; Sediment Guidance Values listed are from the above guidance, Table 7.
NS - No Standard
ND - Analyte not detected at the listed reporting limit
RL - Reporting Limit
mg/kg - milligrams per kilogram
Shaded and bolded values exceed regulatory criteria

Table 9
New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Sediment Sample Analytical Results for Metals and Cyanide

			CLIENT ID:	SD-1-201707		SD-2-201707		SD-4-201707	
			LAB ID:	AC98905-015		AC98905-012		AC98905-009	
			COLLECTION DATE:	7/11/2017		7/11/2017		7/11/2017	
Metals and Cyanide	NYSDEC Class A SGV[1] (mg/kg)	NYSDEC Class C SGV[1] (mg/kg)	Result (mg/Kg)	RL (mg/Kg)	Result (mg/Kg)	RL (mg/Kg)	Result (mg/Kg)	RL (mg/Kg)
Aluminum	NS	NS	28,000	420	20,000	1,700	11,000	290
Antimony	NS	NS	ND	1.7	ND	6.7	ND	1.2
Arsenic	10	33	6.2	0.42	**16**	1.7	2	0.29
Barium	NS	NS	330	21	1,100	83	130	15
Beryllium	NS	NS	0.5	0.42	ND	3.3	ND	0.29
Cadmium	1	5	ND	0.83	ND	3.3	ND	0.59
Calcium	NS	NS	8,100	2,100	26,000	8,300	15,000	1,500
Chromium	43	110	**68**	10	**53**	42	29	7.4
Cobalt	NS	NS	24	5.2	23	21	7.6	3.7
Copper	32	150	**54**	10	**80**	42	11	7.4
Iron	NS	NS	78,000	420	110,000	1,700	27,000	290
Lead	36	130	**52**	10	**100**	42	13	7.4
Magnesium	NS	NS	9,600	1000	10,000	4,200	12,000	740
Manganese	NS	NS	5,800	21	52,000	170	1,900	15
Mercury	0.2	1	ND	0.17	ND	0.69	ND	0.12
Nickel	23	49	**47**	10	**45**	42	22	7.4
Potassium	NS	NS	5,400	1000	ND	4,200	2,000	740
Selenium	NS	NS	ND	4.2	ND	17	ND	2.9
Silver	1	2.2	ND	0.42	ND	1.7	ND	0.29
Sodium	NS	NS	ND	520	ND	2,100	ND	370
Thallium	NS	NS	ND	0.83	ND	3.3	ND	0.59
Vanadium	NS	NS	99	21	ND	83	39	15
Zinc	120	460	**180**	21	**520**	83	81	15
Cyanide	NS	27	ND	0.5	ND	2	ND	0.35

Notes
(1) - NYSDEC Class A and Class C Sediment Guidance Values are from NYSDEC Bureau of Habitat Screeing and Assessment of Contaminated Sediment Guidance, dated June 24, 2014.
NS - No Standard
ND - Analyte not detected at the listed reporting limit
RL - Reporting Limit
mg/kg - milligrams per kilogram
Shaded and bolded values exceed Class A SGV; underlined results exceed Class C SGV

APPENDIX A
SAMPLING LOGS

Groundwater Sampling Data Record Form

Project:	Project No.:	Date/Time:	Sheet 1 of 1
Harrison Landfill	280088	7/10/2017	

TRC Personnel: Monica Sellberg & James Robinson

Well Identification: LMW-2

WELL INTEGRITY

	YES	NO
Protect. Casing Secure		x
Concrete Collar Intact	x	
PVC Stick-up Intact		x
Well Cap Present	x	
Security Lock Present		x

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

WELL DIAMETER		
	x	2 inch
		4 inch
		6 inch

WELL MATERIAL

x		
PVC	SS	

Well Depth (ft.):	21.57	
Depth to Water (ft):	11.25	
Depth of pump intake (ft.):	18	
Height of water column (ft.):	10.32	
Volume of Water in Well (gal):	1.68	
Total Gallons Purged:	2.25	

[Vol. = $r^2h(0.163)$]

Reference Point:

x	top of riser	
	top of casing	x north side
	_____	high pt
		pen mark

	historical
	measured:
	notch

	.16 gal/ft (2 in.)
	.65 gal/ft (4 in.)
	1.5 gal/ft (6 in.)
	___ 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	11:.30	11:40	11:50	11:55	12:00	12:05	12:10	12:15	12:20
Temp. (C.) - (±10%)	18.31	17.46	18.62	18.34	15.69	15.50	15.63	15.50	15.62
pH (Std.Units) - (± 0.1)	6.49	6.54	6.48	6.48	6.48	6.46	6.47	6.48	6.49
ORP (millivolts) - (± 10)	287	280	269	260	256	250	249	226	212
Conduct.(mS/cm) - (±3%)	0.415	0.424	0.408	0.408	0.434	0.438	0.437	0.439	0.435
Turb. (NTU) - (± 10%)	0	4.9	0	4.9	2.8	2.8	2.8	2.8	2.8
DO (mg/L) - (± 10%)	0.00	0.44	0	0	0.00	0	0	0	0
Depth to water (ft)	13.02	12.69	12.80	12.78	12.80	13.1	13.15	13.12	13.15
Flow (ml/min)	150	150	150	150	150	150	150	150	150
Salinity									
Comments	No color, No Odor, No Turbidity, Disposal Method: Drum								

Time	12:25								
Temp. (C.) - (±10%)	15.60								
pH (Std.Units) - (± 0.1)	6.49								
ORP (millivolts) - (± 10)	212								
Conduct.(mS/cm) - (±3%)	0.435								
Turb. (NTU) - (± 10%)	2.8								
DO (mg/L) - (± 10%)	0.00								
Depth to water (ft)	13.15								
Flow (ml/min)	150								
Salinity									
Comments									

Pump Type	Purge	Sample
Peristaltic Pump	x	x
Submersible Pump		
Bladder Pump		
Bailer:		

Description of Sampling Equipment

Geopump; 1/4" LDPE Tubing with 3/8" Masterflex Silicon Tubing; Horiba U-52 with Flow Cell (Pine ID: 16192 16192 - Handset; 21168 - Sensor; Minirae 3000 PID (SN 592-919123).

Analytical Parameters	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
	N	HCl	40ml x 3	12:25	LMW-2-201707
	N	None	1L x 2	12:25	LMW-2-201707
	N	None	500 ml Poly	12:25	LMW-2-201707
	Y	HNO3	1L Poly	12:25	LMW-2-201707
	Y	NaOH	200 ml	12:25	LMW-2-201707

Remarks:

Sample: Clear Color, No Odor

Sample ID: LMW-2-201707

Groundwater Sampling Data Record Form

Project:	Project No.:	Date/Time:	Sheet 1 of 1
Harrison Landfill	280088	7/10/2017	

TRC Personnel: Monica Sellberg

Well Identification: LMW-4

WELL INTEGRITY

	YES	NO
Protect. Casing Secure		x
Concrete Collar Intact	x	
PVC Stick-up Intact		x
Well Cap Present	x	
Security Lock Present		x

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

WELL DIAMETER		
	x	2 inch
		4 inch
		6 inch

WELL MATERIAL

x		
PVC	SS	

Well Depth (ft.):	15
Depth to Water (ft):	3.51
Height of water column (ft.):	11.49

Reference Point:

x	top of riser
	top of casing
	_____

	historical
	measured:
	notch
x	north side
	high pt
	pen mark

Depth of pump intake (ft.): 13

	.16 gal/ft (2 in.)
	.65 gal/ft (4 in.)
	1.5 gal/ft (6 in.)
	___ gal/ft (__in.)

Volume of Water in Well (gal):	1.87
Total Gallons Purged:	1.59
[Vol. = $r^2h(0.163)$]	

Depth to NAPL (ft.):

Thickness of NAPL (ft.):

PID SCREENING (ppmV)

Background	0	
Well Mouth	0	(if required)

FIELD WATER QUALITY MEASUREMENTS

Time	13:35	13:40	13:45	13:50	13:55	14:00	14:05		
Temp. (C.) - (±10%)	14.12	14.18	14.86	14.82	14.57	13.27	13.20		
pH (Std.Units) - (± 0.1)	6.59	6.59	6.6	6.61	6.63	6.66	6.65		
ORP (millivolts) - (± 10)	1	-2	-3	-4	-7	-11	-10		
Conduct.(mS/cm) - (±3%)	0.677	0.658	0.655	0.676	0.691	0.696	0.697		
Turb. (NTU) - (± 10%)	2.8	2.8	2.8	2.8	2.8	2.8	2.8		
DO (mg/L) - (± 10%)	0.10	0	0	0	0.00	0	0		
Depth to water (ft)	3.45	7.90	8.20	8.40	8.45	8.52	9.41		
Flow (ml/min)	200	200	200	200	200	200	200		
Salinity									
Comments	Light brown color and slight turbidity while purging - clears prior to sampling, No Odor, Disposal method: drum								

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
Peristaltic Pump	x	x
Submersible Pump		
Bladder Pump		
Bailer:		

Description of Sampling Equipment

Geopump; 1/4" LDPE Tubing with 3/8" Masterflex Silicon Tubing; Horiba U-52 with Flow Cell (Pine ID: 16192 16192 - Handset; 21168 - Sensor; Minirae 3000 PID (SN 592-919123).

Analytical Parameters	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
	N	HCl	40ml x 3	12:25	LMW-4-201707
	N	None	1L x 2	12:25	LMW-4-201707
	N	None	500 ml Poly	12:25	LMW-4-201707
	Y	HNO3	1L Poly	12:25	LMW-4-201707
	Y	NaOH	200 ml	12:25	LMW-4-201707

Remarks:

Sample: Clear color, No odor

Sample ID: LMW-4-201707

Groundwater Sampling Data Record Form

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

TRC Personnel: Monica Sellberg & James Robinson

Well Identification: PC-1

WELL INTEGRITY

	YES	NO
Protect. Casing Secure		x
Concrete Collar Intact	x	
PVC Stick-up Intact		x
Well Cap Present	x	
Security Lock Present		x

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

WELL DIAMETER		
	x	2 inch
		4 inch
		6 inch

WELL MATERIAL

x		
PVC	SS	

Well Depth (ft.):	17.81	
Depth to Water (ft):	6.46	
Height of water column (ft.):	11.35	

Reference Point:

x	top of riser
	top of casing
	_____

	historical
	measured:
	notch
x	north side
	high pt
	pen mark

Depth of pump intake (ft.): 16

	.16 gal/ft (2 in.)
	.65 gal/ft (4 in.)
	1.5 gal/ft (6 in.)
	___ gal/ft (__in.)

Volume of Water in Well (gal):	1.85
Total Gallons Purged:	1.32

[Vol. = $r^2h(0.163)$]

Depth to NAPL (ft.): _____

Thickness of NAPL (ft.): _____

PID SCREENING (ppmV)

Background	0	
Well Mouth	0	(if required)

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	No color, No Odor, No Turbidity, Disposal Method: Drum								

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
Peristaltic Pump	x	x
Submersible Pump		
Bladder Pump		
Bailer:		

Description of Sampling Equipment

Geopump; 1/4" LDPE Tubing with 3/8" Masterflex Silicon Tubing; Horiba U-52 with Flow Cell (Pine ID: 16192 16192 - Handset; 21168 - Sensor; Minirae 3000 PID (SN 592-919123).

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
	Y	HNO3	1L Poly	10:30	PC-1-201707
	N	Zn Acetate	5 mL Poly	10:30	PC-1-201707
	Y	NaOH	200 ml	10:30	PC-1-201707
	N	HCl	60ml x 3	10:30	PC-1-201707
	N	None	250 ml Poly	10:30	PC-1-201707

Remarks:

Sample: Clear color, No odor

Sample ID: PC-1-201707

Groundwater Sampling Data Record Form

Project:	Project No.:	Date/Time:	Sheet 1 of 1
Harrison Landfill	280088	7/10/2017	

TRC Personnel: Monica Sellberg & James Robinson

Well Identification: PC-2

WELL INTEGRITY

	YES	NO
Protect. Casing Secure		x
Concrete Collar Intact	x	
PVC Stick-up Intact		x
Well Cap Present	x	
Security Lock Present		x

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

WELL DIAMETER	
x	2 inch
	4 inch
	6 inch

WELL MATERIAL		
x		
PVC	SS	

Well Depth (ft.):	12.5
Depth to Water (ft):	1.48

Depth of pump intake (ft.): 10

Height of water column (ft.):	11.02

Reference Point:

x	top of riser
	top of casing
	_____

	historical
	measured:
	notch
x	north side
	high pt
	pen mark

	.16 gal/ft (2 in.)
	.65 gal/ft (4 in.)
	1.5 gal/ft (6 in.)
	___ gal/ft (__in.)

Volume of Water in Well (gal):	1.80
Total Gallons Purged:	2.18

[Vol. = $r^2h(0.163)$]

Depth to NAPL (ft.):

Thickness of NAPL (ft.):

PID SCREENING (ppmV)

Background	0	
Well Mouth	0	(if required)

FIELD WATER QUALITY MEASUREMENTS

Time	15:00	15:05	15:10	15:15	15:20	15:25			
Temp. (C.) - (±10%)	19.69	16.40	15.80	15.56	15.29	14.77			
pH (Std.Units) - (± 0.1)	6.67	6.69	6.66	6.66	6.65	6.63			
ORP (millivolts) - (± 10)	5	0	-2	-4	-5	-5			
Conduct.(mS/cm) - (±3%)	0.605	0.657	0.663	0.666	0.668	0.677			
Turb. (NTU) - (± 10%)	2.8	2.8	2.8	2.8	2.8	2.8			
DO (mg/L) - (± 10%)	0.00	0	0	0	0.00	0			
Depth to water (ft)	4.25	4.32	4.36	4.33	4.32	4.31			
Flow (ml/min)	300	300	250	200	200	200			
Salinity									
Comments	Light brown color and slight turbidity while purging - clears prior to sampling, No Odor, Disposal method: drum								
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
Peristaltic Pump	x	x
Submersible Pump		
Bladder Pump		
Bailer:		

Description of Sampling Equipment

Geopump; 1/4" LDPE Tubing with 3/8" Masterflex Silicon Tubing; Horiba U-52 with Flow Cell (Pine ID: 16192 16192 - Handset; 21168 - Sensor; Minirae 3000 PID (SN 592-919123).

Analytical Parameters	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
	N	HCl	40ml x 3	15:30	PC-2-201707
	N	None	1L x 2	15:30	PC-2-201707
	N	None	500 ml Poly	15:30	PC-2-201707
	Y	HNO3	1L Poly	15:30	PC-2-201707
	Y	NaOH	200 ml	15:30	PC-2-201707

Remarks:

Sample: Clear color, No odor

Sample ID: PC-2-201707

Groundwater Sampling Data Record Form

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

TRC Personnel: James Robinson

Well Identification: PC-3

WELL INTEGRITY

	YES	NO
Protect. Casing Secure		x
Concrete Collar Intact	x	
PVC Stick-up Intact		x
Well Cap Present	x	
Security Lock Present		x

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

WELL DIAMETER		
	x	2 inch
		4 inch
		6 inch

WELL MATERIAL

x		
PVC	SS	

Well Depth (ft.):	18.89	
Depth to Water (ft):	9.5	
Depth of pump intake (ft.):	17	
Height of water column (ft.):	9.39	
Volume of Water in Well (gal):	1.53	
Total Gallons Purged:	2.64	

[Vol. = $r^2h(0.163)$]

Reference Point:

x	top of riser
	top of casing
	_____

	historical
	measured:
	notch
x	north side
	high pt
	pen mark

	.16 gal/ft (2 in.)
	.65 gal/ft (4 in.)
	1.5 gal/ft (6 in.)
	___ 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	8:55	9:00	9:05	9:10	9:15	9:20	9:25		
Temp. (C.) - (±10%)	18.30	15.79	15.36	14.51	13.24	13.20	13.12		
pH (Std.Units) - (± 0.1)	6.21	6.76	6.78	6.76	6.7	6.66	6.62		
ORP (millivolts) - (± 10)	76	-35	-37	-33	-25	-21	-18		
Conduct.(mS/cm) - (±3%)	0.711	0.778	0.784	0.790	0.817	0.811	0.805		
Turb. (NTU) - (± 10%)	40.4	73.8	36.5	20.2	15.9	15.3	15		
DO (mg/L) - (± 10%)	0.00	0	0	0	0.00	0	0		
Depth to water (ft)	9.75	9.75	9.75	9.75	9.75	9.75	9.75		
Flow (ml/min)	250	250	250	250	250	250	250		
Salinity									
Comments	No color, No Odor, No Turbidity, Disposal Method: Drum								
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
Peristaltic Pump	x	x
Submersible Pump		
Bladder Pump		
Bailer:		

Description of Sampling Equipment

Geopump; 1/4" LDPE Tubing with 3/8" Masterflex Silicon Tubing; Horiba U-52 with Flow Cell (Pine ID: 16192 16192 - Handset; 21168 - Sensor; Minirae 3000 PID (SN 592-919123).

Analytical Parameters	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
	N	HCl	40ml x 3	9:30	PC-3-201707
	N	None	1L x 2	9:30	PC-3-201707
	N	None	500 ml Poly	9:30	PC-3-201707
	Y	HNO3	1L Poly	9:30	PC-3-201707
	Y	NaOH	200 ml	9:30	PC-3-201707

Remarks:

Sample: Clear color, No odor

Sample ID: PC-3-201707

New York State Department of Transportation
Harrison Sub-Residency Landfill Site
Summary of Surface Water and Sediment Field Data

Samplers: JMR and MS

Surface Water

Station	Sample Date	Sample Time	Stream Depth (in)[1]	Stream Width (ft)[1]	Temp (C°)[2]	pH[2]	Conductivity (mS/cm)[2]	Dis. O_2 (mg/L)[2]	Turbidity (NTU)[2]	Flow Rate (ft/s)[3]
SW-1	7/11/2017	12:10	6	5	18.31	6.01	0.621	11.0	53.1	No Flow
SW-2[4]	7/11/2017	11:10	9	3	14.29	6.61	0.312	8.1	9.0	0.02
SW-4	7/11/2017	10:10	5	2.5	14.81	6.73	0.301	7.3	2.0	0.06

Sediment

Station	Sample Date	Sample Time	Sample Interval	Collection Method	Sediment Description
SD-1	7/11/2017	12:15	0-2"	New Disposable Plastic Scoop; homogenized in 16-oz jar	Dark brown SILT with organics (leaves). Bed of stream is coated in leaves with fines on top and below. No odor.
SD-2	7/11/2017	11:15	0-2"	New Disposable Plastic Scoop; homogenized in 16-oz jar	Dark brown SILT with organics (roots). No odor.
SD-4	7/11/2017	10:15	0-2"	New Disposable Plastic Scoop; homogenized in 16-oz jar	Dark gray and brown fine SAND with 30-40% silts/clays, little <1" diameter angular cobble (gneiss). No odor.

Notes

[1] Stream width and depth measured using measuring tape. Stream depths were measured at center of stream/water body.
[2] Water quality parameters measured using Horiba U-52
[3] Flow rates were measured using Hach FH950 velocity meter
[4] Duplicate "SW-FD-1-201707" was collected at SW-2 location
in - inches
ft - feet
mS/cm - millisiemens per centimeter
mg/L - milligrams per liter
NTU - nephelometric turbidity units
ft/s - feet per second

APPENDIX B
WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
n/a		800-451-8984	082117 - D2

Received Region 8 CONSTRUCTION UNIT SEP - 6 2017

GENERATOR

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

Generator's Phone: 845-431-5826

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: NJD 080 671369

8. Designated Facility Name and Site Address
Veolia ES Technical Solutions, LLC
4301 Infirmary 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	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non RCRA, Non DOT-Regulated None None	1	DM	55	G
2.					
3.					
4.					

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

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 — Month 8 Day 18 Year 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John Rembla — Signature — Month 8 Day 28 Year 17

Transporter 2 Printed/Typed Name: John Kurdziolek — Signature — Month 8 Day 21 Year 17

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

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

1H141

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Bonthany Blankenship — Signature — Month 8 Day 29 Year 17

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

VEOLIA
ENVIRONMENTAL SERVICES

SHIPPING DOCUMENT (Continuation Sheet)

21. Generator ID Number: NYA
22. Page: 2
23. Shipping Document Tracking Number: 052117-D2

24. Generator's Name: NYS DOT Region 8.

25. Transporter 3 Company Name: Freehold Cartage Inc
U.S. EPA ID Number: NJD054126164

26. Transporter _____ Company Name
U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Codes

32. Special Handling Instructions and Additional Information

TRANSPORTER

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

DESIGNATED FACILITY

35. Discrepancy

36. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)

DESIGNATED FACILITY TO GENERATOR

APPENDIX C
LABORATORY DATA REPORT

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: Harrison Sub Residency

Client PO: 110189

Report To: TRC Engineering
1430 Broadway
10th Floor
New York, NY 10018

Attn: Kirsten Myers

Received Date: 7/11/2017

Report Date: 7/28/2017

Deliverables: NYDOH-CatA

Lab ID: AC98905 AC98940

Lab Project No: 7071123

Robin Cousineau - Quality Assurance Director OR Jean Revolus - Laboratory Director

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
Analytical & Field Services

THIS CATEGORY “A” REPORT
IS NUMBERED FROM
1 to 249

(Subcontracted data is numbered as attached)

HC Case Narrative

Client: TRC Engineering
Project: Harrison Sub Residency

HC Project: 7071123

Hampton-Clarke (HC) received the following samples on 7/11/17 and 7/12/17:

Client ID	HC Sample ID	Matrix	Analysis
LMW-2-201707 U	AC98905-001	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), Chloride (300.0 rev2.1)
LMW-2-201707 F	AC98905-002	Aqueous	TAL Metals (6010C & 6020A), Mercury (7470A), Cyanide (9012B)
LMW-4-201707 U	AC98905-003	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), Chloride (300.0 rev2.1)
LMW-4-201707 F	AC98905-004	Aqueous	TAL Metals (6010C & 6020A), Mercury (7470A), Cyanide (9012B)
PC-2-201707 U	AC98905-005	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), Chloride (300.0 rev2.1)
PC-2-201707 F	AC98905-006	Aqueous	TAL Metals (6010C & 6020A), Mercury (7470A), Cyanide (9012B)
SW-4-201707 U	AC98905-007	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), TAL Metals (6010C & 6020A), Mercury (7470A), Hardness (200.7), Chloride (300.0 rev2.1), Cyanide (9012B)
SW-4-201707 F	AC98905-008	Aqueous	N/A
SD-4-201707	AC98905-009	Sediment	Volatile Organics (8260C), Semi-Volatile Organics (8270D), TAL Metals (6010C & 6020A), Mercury (7471B), Chloride (9056A), Cyanide (9012B), % Solids (2540G)
SW-2-201707 U	AC98905-010	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), TAL Metals (6010C & 6020A), Mercury (7470A), Hardness (200.7), Chloride (300.0 rev2.1), Cyanide (9012B)
SW-2-201707 F	AC98905-011	Aqueous	N/A
SD-2-201707	AC98905-012	Sediment	Volatile Organics (8260C), Semi-Volatile Organics (8270D), TAL Metals (6010C & 6020A), Mercury (7471B), Chloride (9056A), Cyanide (9012B), % Solids (2540G)
SW-1-201707 U	AC98905-013	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), TAL Metals (6010C & 6020A), Mercury (7470A), Hardness (200.7), Chloride (300.0 rev2.1), Cyanide (9012B)
SW-1-201707 F	AC98905-014	Aqueous	N/A
SD-1-201707	AC98905-015	Sediment	Volatile Organics (8260C), Semi-Volatile Organics (8270D), TAL Metals (6010C & 6020A), Mercury (7471B), Chloride (9056A), Cyanide (9012B), % Solids (2540G)
TB-1-201707	AC98905-016	Aqueous	Volatile Organics (8260C)
MW-11-201707 U	AC98905-017	Aqueous	BTEX (8260C), Alkalinity- Total & Alkalinity- Bicarbonate & Alkalinity- Carbonate (2320B-97), Nitrate & Sulfate (300.0 rev2.1)
MW-11-201707 F	AC98905-018	Aqueous	Metals (6010C)
SW-FD-201707 U	AC98905-019	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), TAL Metals (6010C & 6020A), Mercury (7470A), Hardness (200.7), Chloride (300.0 rev2.1), Cyanide (9012B)
SW-FD-201707 F	AC98905-020	Aqueous	N/A
PC-1-201707 U	AC98940-001	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), Alkalinity- Total & Alkalinity- Bicarbonate & Alkalinity- Carbonate (2320B-97), Chloride & Nitrate & Sulfate (300.0 rev2.1), Total Sulfide (4500-S2F11)
PC-1-201707 F	AC98940-002	Aqueous	TAL Metals (6010C & 6020A), Mercury (7470A), Cyanide (9012B)
PC-FD-201707 U	AC98940-003	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), Alkalinity- Total & Alkalinity- Bicarbonate & Alkalinity- Carbonate (2320B-97), Chloride & Nitrate & Sulfate (300.0 rev2.1), Total Sulfide (4500-S2F11)
PC-FD-201707 F	AC98940-004	Aqueous	TAL Metals (6010C & 6020A), Mercury (7470A), Cyanide (9012B)
PC-3-201707 U	AC98940-005	Aqueous	Volatile Organics (8260C), Semi-Volatile Organics (8270D), Chloride (300.0 rev2.1)
PC-3-201707 F	AC98940-006	Aqueous	TAL Metals (6010C & 6020A), Mercury (7470A), Cyanide (9012B)
TB-2-201707	AC98940-007	Aqueous	Volatile Organics (8260C)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batches MBS61645, MBS61646, MBS61650, MBS61654, MBS61665, MBS61658, and MBS61660 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches MBS61650, MBS61654, MBS61660, and MBS61672 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batches MBS61650 and MBS61660 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batches WMB60401, SMB60402, WMB60422, and WMB60426 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches WMB60401, SMB60402, WMB60422, and WMB60426 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Metals Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batches 60973 and 60974 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 60974. Please refer to the applicable Form 6/9 for the recoveries.

The MS/MSD RPD had recoveries outside QC limits in batch 60973. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batches 60969, 60970, and 60973 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Sample AC98905-012 in batch 60973 was reported at a dilution for Mn due to concentration above the linear range.

Samples AC98905-012 in batch 60974 was reported at a dilution for Be due to internal standard interference.

Wet Chemistry Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for Sulfate, batches S-1229 and W-2022, had recoveries outside QC limits. Please refer to the QC section for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for Chloride, batch W-2017, had recoveries outside QC limits. Please refer to the QC section for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for Chloride and Sulfate, batch W-2019, had recoveries outside QC limits. Please refer to the QC section for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

7/31/2017
Date

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

Hampton-Clarke
WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 7071123

Page 1 of 2

7071123 0003

Customer Information

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

Project Information

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

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ (NY) PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[X] NYDEC
8 Business Days (Stand.)	NY ASP (CatA)	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # ACG8905

===> Check If Contingent ===>

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)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	VOA 8260	BN 8270 SIM	TAL Met (Total Fish)	CN (Field Filt)	Chloride	% Solids	Hardness	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001/002	LMW-2-201707	GW	7/10	1225		X	X	X	X	X	X			3			1	3		1		
003/004	LMW-4-201707	GW	7/10	1410		X	X	X	X	X	X			3			1	3		1		
005/006	PC-2-201707	GW	7/10	1530		X	X	X	X	X	X			5			1	3		1		
007/008	SW-4-201707	SW	7/11	~~1015~~ 1010		X	X	X	X	X	X		X	3			1	3		1		
009/010	SD-4-201707	SED	7/11	1015		X	X	X	X	X	X	X		2		3						
011/012	SW-3-201707	SW	7/11	1110		X	X	X	X	X	X		X	3			1	5		1		
013/014	SD-2-201707	SED	7/11	1115		X	X	X	X	X	X	X		2		3						
015/016	SW-1-201707	SW	7/11	1210		X	X	X	X	X	X		X	3			1	3		1		
017/018	~~SED~~ SD-1-201707	SED	7/11	1215		X	X	X	X	X	X	X		2		3						
016	TB-1-201707	TB					X											3				Trip Blank

10) Relinquished by:	Accepted by:	Date	Time
		7/11	14:30
		7/11/17	15:50

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

Additional Notes
Please Batch all Harrison Sub Res Samples on style 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

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

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

Cooler Temperature: 2.0, 2.1, 3.1, 2.4

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#

7071123 0004

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
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Ph (Service Center): 856-780-6057 Fax: 856-780-6056

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NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 7071123

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ (NY) PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[X] NYDEC
8 Business Days (Stand.)	NY ASP (CatA)	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer:
Address: SEE Pg 1
1b) Email/Cell/Fax/Ph:
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 ↓

Batch # AC98905

===> Check If Contingent ===>

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)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	VO BTEX + MTBE	Fe, Mn (Field Filt)	Alkalinity, Hydrogen Sulfide	NO3 + Sulfate	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: Zn Acetate	9) Comments
017/018	MW-11-20707	GW	7/11	1415		X	X	X	X	X	4				3		1	1	

10) Relinquished by:

Relinquished by:	Accepted by:	Date	Time
		7/11/17	14:30
		7/11/17	15:50

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

Additional Notes

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

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

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

Cooler Temperature: 4.0°C

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#

CONDITION UPON RECEIPT

Batch Number AC98905 Entered By: Frantz
Date Entered 7/11/2017 4:37:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	NO	Are the COC seals intact?
4	T0056	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.0,2.1,3.1,2.4
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	NO	Do the contents match the COC? If no, specify Set of samples received for SW-FD-201707 but was not on the COC collected 7/11/17 bottles do not have a collection time on them. PC-1-201707- 120ml of samples received for CN collected 7/10/17 at 16:40 but was not on the COC. One liter of sample received with sample ID FD-201707 received but not on the COC.
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken). Per James Robinson via email dated 7/12/17 sample SW-FD-201707 was collected at 11:10am and shouls be listed on the COC for BNA, VO, Chloride, TAL Metals, Hardness and Cyanide analyses. PC-1-201707- 120ml of samples received for CN collected 7/10/17 at 16:40 and the One liter of sample received with sample ID FD-201707 should be disposed. MS 7/12/17

PRESERVATION DOCUMENT

Batch Number AC98905 Entered By: Frantz

Date Entered 7/11/2017 4:52:00 PM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AC98905-001	40ml	G	VO	HCL	621118	1	HC693124
AC98905-002	1L	P	METALS	HNO3	162027	1	HC693124
AC98905-002	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98905-003	40ml	G	VO	HCL	621118	1	HC693124
AC98905-004	1L	P	METALS	HNO3	162027	1	HC693124
AC98905-004	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98905-005	40ml	G	VO	HCL	621118	1	HC693124
AC98905-006	1L	P	METALS	HNO3	162027	1	HC693124
AC98905-006	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98905-007	40ml	G	VO	HCL	621118	1	HC693124
AC98905-008	1L	P	METALS	HNO3	162027	1	HC693124
AC98905-008	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98905-009	40ml	G	VO	HCL	621118	1	HC693124
AC98905-010	40ml	G	VO	HCL	621118	1	HC693124
AC98905-011	1L	P	METALS	HNO3	162027	1	HC693124
AC98905-011	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98905-012	40ml	G	VO	HCL	621118	1	HC693124
AC98905-013	40ml	G	VO	HCL	621118	1	HC693124
AC98905-014	1L	P	METALS	HNO3	162027	1	HC693124
AC98905-014	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98905-015	40ml	G	VO	HCL	621118	1	HC693124
AC98905-016	40ml	G	VO	HCL	621118	1	HC693124
AC98905-017	40ml	G	VO	HCL	621118	1	HC693124
AC98905-017	500ml	P	Sulfide	ZnAc+NaOH	V254859/	14	HC693124
AC98905-018	1L	P	METALS	HNO3	162027	1	HC693124
AC98905-018	NA	NA	NA	NA	NA	NA	NA
AC98905-019	40ml	G	VO	HCL	621118	1	HC693124
AC98905-020	1L	P	METALS	HNO3	162027	1	HC693124
AC98905-020	120ml	G	CN	NaOH	V-254858	14	HC693124

Hampton-Clarke, Inc. (WBE/DBE/SBE)

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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

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 7071228

Page 1 of 1

7071123 0007

Customer Information

1a) Customer: TRC

Address: 1430 ~~Broad~~ Broadway, 10th FL
New York, NY 10018

1b) Email/Cell/Fax/Ph: Kmyers@trcsolutions.com

1c) Send Invoice to: "

1d) Send Report to: "

Project Information

2a) Project: West Harrison Landfill

2b) Project Mgr: Kirsten Myers

2c) Project Location (City/State): West Harrison / NY

2d) Quote/PO # (If Applicable):

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ / (NY) / PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	~~[ ]~~
(8 Business Days (Stand.))	(NY ASP CatA)	[X] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # AC98940

===> Check If Contingent ===>

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)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	VOIS	BNAIS	TAL Met (Field Filt)	CN (Field Filt)	Chloride	NO_3, Sulfate	Sulfide	tot Alkalinity; Bicarbonate alk	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: Zn Ac + N	9) Comments
002/002	PC-1-201707	GW	7/12	10:30		X	X	X	X	X	X	X	X	X	8			1	3		1	1	
003/004	PC-FD-201707	GW	7/12	1030		X	X	X	X	X	X	X	X	X	8			1	3		1	1	
005/006	PC-3-201707	GW	7/12	0930		X	X	X	X	X	X				3			1	3		1		
007	TB-2-201707	DW					X																Trip Blank

10) Relinquished by:	Accepted by:	Date	Time
		7/12	2:16
		7/12/17	4:20

11) Sampler (print name): James Robinson Date: 7/12

Additional Notes
Please batch onto same report as prev. site samples
Extra Empty SW + SED Bottleware incl.

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

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

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

Cooler Temperature: 2.0, 2.2

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#

CONDITION UPON RECEIPT

Batch Number AC98940 Entered By: Frantz
Date Entered 7/12/2017 4:54:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	NO	Are the COC seals intact?
4	T0056	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.0
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

PRESERVATION DOCUMENT

Batch Number AC98940 Entered By: Frantz

Date Entered 7/12/2017 4:55:00 PM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AC98940-001	40ml	G	VO	HCL	1621118	1	HC693124
AC98940-001	500ml	P	Sulfide	ZnAC+NaOH	V254859/	14	HC693124
AC98940-002	1L	P	METALS	HNO3	162027	1	HC693124
AC98940-002	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98940-003	40ml	G	VO	HCL	1621118	1	HC693124
AC98940-003	500ml	P	Sulfide	ZnAC+NaOH	V254859/	14	HC693124
AC98940-004	1L	P	METALS	HNO3	162027	1	HC693124
AC98940-004	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98940-005	40ml	G	VO	HCL	1621118	1	HC693124
AC98940-006	1L	P	METALS	HNO3	162027	1	HC693124
AC98940-006	120ml	G	CN	NaOH	V-254858	14	HC693124
AC98940-007	40ml	G	VO	HCL	1621118	1	HC693124

PROJECT MODIFICATIONS

Client: TRC-NYC **HC Project #:** 7071123

Project: Harrison Sub Residency

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maureen192.168.1.67
7/13/2017 1:35:45 PM

Per Kirsten Myers via email 7/12/17 the samples with the prefix SW are not filtered for Cyanide or TAL Metals. These are total unfiltered samples.
MS 7/13/17

---

maureen192.168.1.67
7/13/2017 2:27:31 PM

Per Kirsten Myers via email dated 7/13/17 the project name is Harrison Sub Residency.
MS 7/13/17

---

maureen192.168.1.67
7/13/2017 2:29:29 PM

Per Kirsten Myers via a phone conversation with Lauren Gelmetti dated 7/12/17 the BNA and VO do not get TIC's.
MS 7/13/17

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AC98905-001	07/11/17 15:50	FRANT	0	M	Received
AC98905-001	07/11/17 16:28	FRANT	0	M	Login
AC98905-001	07/12/17 05:34	JKR/JI	1	A	BNA
AC98905-001	07/13/17 09:52	LV	2	A	bn/bna
AC98905-001	07/13/17 11:19	R12	2	A	NONE
AC98905-001	07/19/17 09:12	JW	3	A	IC
AC98905-001	07/19/17 18:36	R12	3	A	NONE
AC98905-001	07/12/17 06:32	R31	4	A	NONE
AC98905-001	07/12/17 06:32	R31	5	A	NONE
AC98905-001	07/12/17 17:52	WP	5	A	VOA
AC98905-001	07/12/17 06:30	R31	6	A	PH/CHECK
AC98905-002	07/11/17 15:50	FRANT	0	M	Received
AC98905-002	07/11/17 16:28	FRANT	0	M	Login
AC98905-002	07/13/17 11:33	CJA	1	A	TDSI-HG
AC98905-002	07/13/17 11:34	R12	1	A	NONE
AC98905-002	07/13/17 10:58	JMP	2	A	CN
AC98905-002	07/13/17 12:01	R12	2	A	NONE
AC98905-003	07/11/17 15:50	FRANT	0	M	Received
AC98905-003	07/11/17 16:28	FRANT	0	M	Login
AC98905-003	07/12/17 05:34	JKR/JI	1	A	BNA
AC98905-003	07/13/17 09:52	LV	2	A	bn/bna
AC98905-003	07/13/17 11:19	R12	2	A	NONE
AC98905-003	07/19/17 09:12	JW	3	A	IC
AC98905-003	07/19/17 18:36	R12	3	A	NONE
AC98905-003	07/12/17 06:32	R31	4	A	NONE
AC98905-003	07/12/17 17:52	WP	4	A	VOA
AC98905-003	07/12/17 06:32	R31	5	A	NONE
AC98905-003	07/12/17 06:30	R31	6	A	PH/CHECK
AC98905-004	07/11/17 15:50	FRANT	0	M	Received
AC98905-004	07/11/17 16:28	FRANT	0	M	Login
AC98905-004	07/13/17 11:33	CJA	1	A	TDSI-HG
AC98905-004	07/13/17 11:34	R12	1	A	NONE
AC98905-004	07/13/17 10:58	JMP	2	A	CN
AC98905-004	07/13/17 12:01	R12	2	A	NONE
AC98905-005	07/11/17 15:50	FRANT	0	M	Received
AC98905-005	07/11/17 16:28	FRANT	0	M	Login
AC98905-005	07/13/17 09:52	LV	1	A	bn/bna
AC98905-005	07/13/17 11:19	R12	1	A	NONE
AC98905-005	07/12/17 05:34	JKR/JI	2	A	BNA
AC98905-005	07/19/17 09:12	JW	3	A	IC
AC98905-005	07/19/17 18:36	R12	3	A	NONE
AC98905-005	07/12/17 06:32	R31	4	A	NONE
AC98905-005	07/12/17 17:52	WP	4	A	VOA
AC98905-005	07/12/17 06:32	R31	5	A	NONE
AC98905-005	07/12/17 06:30	R31	6	A	PH/CHECK
AC98905-006	07/11/17 15:50	FRANT	0	M	Received
AC98905-006	07/11/17 16:28	FRANT	0	M	Login
AC98905-006	07/13/17 11:33	CJA	1	A	TDSI-HG
AC98905-006	07/13/17 11:34	R12	1	A	NONE
AC98905-006	07/13/17 10:58	JMP	2	A	CN
AC98905-006	07/13/17 12:01	R12	2	A	NONE
AC98905-007	07/11/17 15:50	FRANT	0	M	Received
AC98905-007	07/11/17 16:28	FRANT	0	M	Login
AC98905-007	07/13/17 09:52	LV	1	A	bn/bna
AC98905-007	07/13/17 11:19	R12	1	A	NONE
AC98905-007	07/12/17 05:34	JKR/JI	2	A	BNA
AC98905-007	07/19/17 09:12	JW	3	A	IC
AC98905-007	07/19/17 18:36	R12	3	A	NONE
AC98905-007	07/12/17 06:32	R31	4	A	NONE
AC98905-007	07/12/17 06:32	R31	5	A	NONE
AC98905-007	07/12/17 17:52	WP	5	A	VOA
AC98905-007	07/12/17 06:30	R31	6	A	PH/CHECK
AC98905-007	07/13/17 11:33	CJA	8	A	TDSI-HG
AC98905-007	07/13/17 11:34	R12	8	A	NONE
AC98905-007	07/13/17 10:58	JMP	9	A	CN
AC98905-007	07/13/17 12:01	R12	9	A	NONE
AC98905-008	07/11/17 15:50	FRANT	0	M	Received
AC98905-008	07/11/17 16:28	FRANT	0	M	Login
AC98905-009	07/11/17 15:50	FRANT	0	M	Received
AC98905-009	07/11/17 16:28	FRANT	0	M	Login
AC98905-009	07/11/17 21:38	PA	1	A	mix
AC98905-009	07/11/17 21:39	R12	1	A	NONE
AC98905-009	07/12/17 07:49	JMP	1	A	SOLIDS
AC98905-009	07/12/17 07:52	R12	1	A	NONE
AC98905-009	07/12/17 07:52	SMAR	1	A	bna
AC98905-009	07/12/17 12:22	R12	1	A	NONE
AC98905-009	07/12/17 16:03	JW	1	A	IC
AC98905-009	07/12/17 16:48	R12	1	A	NONE
AC98905-009	07/13/17 09:24	JMP	1	A	CN
AC98905-009	07/13/17 10:33	R12	1	A	NONE
AC98905-009	07/14/17 10:00	AM	1	A	TDSI/HG
AC98905-009	07/14/17 10:01	R12	1	A	NONE
AC98905-009	07/12/17 12:26	R31	4	A	NONE
AC98905-009	07/12/17 17:43	RG	4	M	VOA
AC98905-009	07/12/17 17:47	R31	4	A	NONE
AC98905-009	07/12/17 12:26	F19	5	A	none
AC98905-009	07/13/17 13:04	WP	5	A	VOA
AC98905-009	07/12/17 12:26	F19	6	A	none
AC98905-010	07/11/17 15:50	FRANT	0	M	Received
AC98905-010	07/11/17 16:28	FRANT	0	M	Login
AC98905-010	07/12/17 05:34	JKR/JI	1	A	BNA
AC98905-010	07/12/17 05:34	JKR/JI	2	A	BNA
AC98905-010	07/12/17 05:34	R12	2	A	NONE
AC98905-010	07/13/17 09:52	LV	2	A	bn/bna
AC98905-010	07/13/17 11:19	R12	2	A	NONE
AC98905-010	07/19/17 09:12	JW	3	A	IC
AC98905-010	07/19/17 18:36	R12	3	A	NONE
AC98905-010	07/12/17 06:32	R31	4	A	NONE
AC98905-010	07/12/17 06:32	R31	5	A	NONE
AC98905-010	07/12/17 17:52	WP	5	A	VOA
AC98905-010	07/12/17 06:30	R31	6	A	PH/CHECK
AC98905-010	07/13/17 11:33	CJA	7	A	TDSI-HG
AC98905-010	07/13/17 11:34	R12	7	A	NONE
AC98905-010	07/13/17 10:58	JMP	8	A	CN
AC98905-010	07/13/17 12:01	R12	8	A	NONE
AC98905-011	07/11/17 15:50	FRANT	0	M	Received
AC98905-011	07/11/17 16:28	FRANT	0	M	Login
AC98905-012	07/11/17 15:50	FRANT	0	M	Received
AC98905-012	07/11/17 16:28	FRANT	0	M	Login
AC98905-012	07/11/17 21:38	PA	1	A	mix
AC98905-012	07/11/17 21:39	R12	1	A	NONE
AC98905-012	07/12/17 07:49	JMP	1	A	SOLIDS
AC98905-012	07/12/17 07:52	R12	1	A	NONE
AC98905-012	07/12/17 07:52	SMAR	1	A	bna
AC98905-012	07/12/17 12:22	R12	1	A	NONE
AC98905-012	07/12/17 16:03	JW	1	A	IC
AC98905-012	07/12/17 16:48	R12	1	A	NONE
AC98905-012	07/13/17 09:24	JMP	1	A	CN
AC98905-012	07/13/17 10:33	R12	1	A	NONE
AC98905-012	07/14/17 10:00	AM	1	A	TDSI/HG
AC98905-012	07/14/17 10:01	R12	1	A	NONE
AC98905-012	07/12/17 12:26	R31	4	A	NONE
AC98905-012	07/12/17 17:43	RG	4	M	VOA
AC98905-012	07/12/17 17:47	R31	4	A	NONE
AC98905-012	07/12/17 12:26	F19	5	A	none
AC98905-012	07/13/17 13:04	WP	5	A	VOA
AC98905-012	07/12/17 12:26	F19	6	A	none
AC98905-013	07/11/17 15:50	FRANT	0	M	Received
AC98905-013	07/11/17 16:28	FRANT	0	M	Login
AC98905-013	07/13/17 09:52	LV	1	A	bn/bna
AC98905-013	07/13/17 11:19	R12	1	A	NONE
AC98905-013	07/19/17 09:12	JW	2	A	IC
AC98905-013	07/19/17 18:36	R12	2	A	NONE
AC98905-013	07/12/17 05:34	JKR/JI	3	A	BNA
AC98905-013	07/12/17 06:32	R31	4	A	NONE
AC98905-013	07/12/17 17:52	WP	4	A	VOA
AC98905-013	07/12/17 06:32	R31	5	A	NONE
AC98905-013	07/12/17 06:30	R31	6	A	PH/CHECK
AC98905-013	07/12/17 11:33	CJA	7	A	TDSI-HG
AC98905-013	07/13/17 11:34	R12	7	A	NONE
AC98905-013	07/13/17 10:58	JMP	8	A	CN
AC98905-013	07/13/17 12:01	R12	8	A	NONE
AC98905-014	07/11/17 15:50	FRANT	0	M	Received
AC98905-014	07/11/17 16:28	FRANT	0	M	Login
AC98905-015	07/11/17 15:50	FRANT	0	M	Received
AC98905-015	07/11/17 16:28	FRANT	0	M	Login
AC98905-015	07/11/17 21:38	PA	2	A	mix
AC98905-015	07/11/17 21:39	R12	2	A	NONE
AC98905-015	07/12/17 07:49	JMP	2	A	SOLIDS
AC98905-015	07/12/17 07:52	R12	2	A	NONE

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AC98905-015	07/12/17 07:52	SMAR	2	A	bna
AC98905-015	07/12/17 12:22	R12	2	A	NONE
AC98905-015	07/12/17 16:03	JW	2	A	IC
AC98905-015	07/12/17 16:48	R12	2	A	NONE
AC98905-015	07/13/17 09:24	JMP	2	A	CN
AC98905-015	07/13/17 10:33	R12	2	A	NONE
AC98905-015	07/14/17 10:00	AM	2	A	TDSI/HG
AC98905-015	07/14/17 10:01	R12	2	A	NONE
AC98905-015	07/12/17 12:26	R31	4	A	NONE
AC98905-015	07/12/17 17:43	RG	4	M	VOA
AC98905-015	07/12/17 17:47	R31	4	A	NONE
AC98905-015	07/12/17 12:26	F19	5	A	none
AC98905-015	07/13/17 13:04	WP	5	A	VOA
AC98905-015	07/12/17 12:26	F19	6	A	none
AC98905-016	07/11/17 15:50	FRANT	0	M	Received
AC98905-016	07/11/17 16:28	FRANT	0	M	Login
AC98905-016	07/12/17 06:32	R31	1	A	NONE
AC98905-016	07/12/17 17:52	WP	1	A	VOA
AC98905-016	07/12/17 06:32	R31	2	A	NONE
AC98905-016	07/12/17 06:30	R31	3	A	PH/CHECK
AC98905-017	07/11/17 15:50	FRANT	0	M	Received
AC98905-017	07/11/17 16:28	FRANT	0	M	Login
AC98905-017	07/17/17 08:50	BCT	1	A	ALKALINITY
AC98905-017	07/17/17 12:45	R12	1	A	NONE
AC98905-017	07/17/17 08:50	BCT	2	A	ALKALINITY
AC98905-017	07/17/17 12:45	R12	2	A	NONE
AC98905-017	07/12/17 09:22	JW	3	A	IC
AC98905-017	07/12/17 16:48	R12	3	A	NONE
AC98905-017	07/12/17 06:32	R31	5	A	NONE
AC98905-017	07/12/17 06:32	R31	6	A	NONE
AC98905-017	07/12/17 17:52	WP	6	A	VOA
AC98905-017	07/12/17 06:30	R31	7	A	PH/CHECK
AC98905-018	07/11/17 15:50	FRANT	0	M	Received
AC98905-018	07/11/17 16:28	FRANT	0	M	Login
AC98905-018	07/13/17 11:33	CJA	2	A	TDSI-HG
AC98905-018	07/13/17 11:34	R12	2	A	NONE
AC98905-019	07/11/17 15:50	FRANT	0	M	Received
AC98905-019	07/11/17 16:43	FRANT	0	M	Login
AC98905-019	07/13/17 09:52	LV	2	A	bn/bna
AC98905-019	07/19/17 09:12	JW	3	A	IC
AC98905-019	07/19/17 18:36	R12	3	A	NONE
AC98905-019	07/12/17 06:32	R31	4	A	NONE
AC98905-019	07/14/17 18:44	WP	4	A	VOA
AC98905-019	07/12/17 06:32	R31	5	A	NONE
AC98905-019	07/13/17 19:21	WP	5	A	VOA
AC98905-019	07/12/17 06:30	R31	6	A	PH/CHECK
AC98905-019	07/13/17 10:58	JMP	7	A	CN
AC98905-019	07/13/17 12:01	R12	7	A	NONE
AC98905-019	07/13/17 11:33	CJA	8	A	TDSI-HG
AC98905-019	07/13/17 11:34	R12	8	A	NONE
AC98905-020	07/11/17 15:50	FRANT	0	M	Received
AC98905-020	07/11/17 16:43	FRANT	0	M	Login
AC98940-001	07/12/17 16:20	FRANT	0	M	Received
AC98940-001	07/12/17 16:43	FRANT	0	M	Login
AC98940-001	07/12/17 17:17	R12	1	A	NONE
AC98940-001	07/14/17 06:46	JMP	1	A	sulfide
AC98940-001	07/14/17 10:39	R12	1	A	NONE
AC98940-001	07/12/17 17:17	R12	2	A	NONE
AC98940-001	07/12/17 16:53	JW	3	A	IC
AC98940-001	07/12/17 17:05	R12	3	A	NONE
AC98940-001	07/12/17 17:17	R12	3	A	NONE
AC98940-001	07/12/17 17:17	R12	4	A	NONE
AC98940-001	07/14/17 10:09	JJW	4	A	IC
AC98940-001	07/14/17 16:24	R12	4	A	NONE
AC98940-001	07/12/17 17:17	R12	5	A	NONE
AC98940-001	07/14/17 07:44	JIR/AP	5	A	bn
AC98940-001	07/12/17 17:17	R12	6	A	NONE
AC98940-001	07/17/17 08:50	BCT	9	A	ALKALINITY
AC98940-001	07/17/17 12:45	R12	9	A	NONE
AC98940-001	07/13/17 07:00	R31	10	A	NONE
AC98940-001	07/13/17 19:21	WP	10	A	VOA
AC98940-001	07/13/17 07:00	R31	11	A	NONE
AC98940-001	07/13/17 06:59	R31	12	A	PH/CHECK
AC98940-002	07/12/17 16:20	FRANT	0	M	Received
AC98940-002	07/12/17 16:43	FRANT	0	M	Login
AC98940-002	07/12/17 17:17	R12	1	A	NONE
AC98940-002	07/13/17 10:58	JMP	1	A	CN
AC98940-002	07/13/17 12:01	R12	1	A	NONE
AC98940-002	07/12/17 17:17	R12	2	A	NONE
AC98940-002	07/13/17 11:33	CJA	2	A	TDSI-HG
AC98940-002	07/13/17 11:34	R12	2	A	NONE
AC98940-003	07/12/17 16:20	FRANT	0	M	Received
AC98940-003	07/12/17 16:43	FRANT	0	M	Login
AC98940-003	07/12/17 16:53	JW	1	A	IC
AC98940-003	07/12/17 17:05	R12	1	A	NONE
AC98940-003	07/12/17 17:17	R12	1	A	NONE
AC98940-003	07/12/17 17:17	R12	2	A	NONE
AC98940-003	07/12/17 17:17	R12	3	A	NONE
AC98940-003	07/14/17 10:09	JJW	3	A	IC
AC98940-003	07/14/17 16:24	R12	3	A	NONE
AC98940-003	07/12/17 17:17	R12	4	A	NONE
AC98940-003	07/14/17 06:46	JMP	4	A	sulfide
AC98940-003	07/14/17 10:39	R12	4	A	NONE
AC98940-003	07/12/17 17:17	R12	5	A	NONE
AC98940-003	07/12/17 17:17	R12	6	A	NONE
AC98940-003	07/14/17 07:44	JIR/AP	6	A	bn
AC98940-003	07/17/17 08:50	BCT	8	A	ALKALINITY
AC98940-003	07/17/17 12:45	R12	8	A	NONE
AC98940-003	07/13/17 07:00	R31	10	A	NONE
AC98940-003	07/13/17 19:21	WP	10	A	VOA
AC98940-003	07/13/17 06:59	R31	11	A	PH/CHECK
AC98940-003	07/13/17 07:00	R31	12	A	NONE
AC98940-004	07/12/17 16:20	FRANT	0	M	Received
AC98940-004	07/12/17 16:43	FRANT	0	M	Login
AC98940-004	07/12/17 17:17	R12	1	A	NONE
AC98940-004	07/13/17 10:58	JMP	1	A	CN
AC98940-004	07/13/17 12:01	R12	1	A	NONE
AC98940-004	07/12/17 17:17	R12	2	A	NONE
AC98940-004	07/13/17 11:33	CJA	2	A	TDSI-HG
AC98940-004	07/13/17 11:34	R12	2	A	NONE
AC98940-005	07/12/17 16:20	FRANT	0	M	Received
AC98940-005	07/12/17 16:43	FRANT	0	M	Login
AC98940-005	07/12/17 17:17	R12	2	A	NONE
AC98940-005	07/12/17 17:17	R12	3	A	NONE
AC98940-005	07/14/17 07:44	JIR/AP	3	A	bn
AC98940-005	07/12/17 17:17	R12	4	A	NONE
AC98940-005	07/14/17 10:09	JJW	4	A	IC
AC98940-005	07/14/17 16:24	R12	4	A	NONE
AC98940-005	07/13/17 07:00	R31	5	A	NONE
AC98940-005	07/13/17 06:59	R31	6	A	PH/CHECK
AC98940-005	07/13/17 07:00	R31	7	A	NONE
AC98940-005	07/13/17 19:21	WP	7	A	VOA
AC98940-006	07/12/17 16:20	FRANT	0	M	Received
AC98940-006	07/12/17 16:43	FRANT	0	M	Login
AC98940-006	07/12/17 17:17	R12	1	A	NONE
AC98940-006	07/13/17 10:58	JMP	1	A	CN
AC98940-006	07/13/17 12:01	R12	1	A	NONE
AC98940-006	07/12/17 17:17	R12	2	A	NONE
AC98940-006	07/13/17 11:33	CJA	2	A	TDSI-HG
AC98940-006	07/13/17 11:34	R12	2	A	NONE
AC98940-007	07/12/17 16:20	FRANT	0	M	Received
AC98940-007	07/12/17 16:43	FRANT	0	M	Login
AC98940-007	07/13/17 06:59	R31	1	A	PH/CHECK
AC98940-007	07/13/17 07:00	R31	2	A	NONE
AC98940-007	07/13/17 07:00	R31	3	A	NONE
AC98940-007	07/13/17 19:21	WP	3	A	VOA

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Laboratory Chronicle

Client: TRC Engineering
Project: Harrison Sub Residency

HC Project #: 7071123

Lab#: AC98905-001 **Sample ID: LMW-2-201707 U**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Chloride (Water) 300.0		07/19/17	Janee	300.0 rev2.1	7/19/17 17:54	Janee
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	JKR	EPA 8270D	7/12/17 17:37	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 03:16	WP

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:31	JMP
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 16:46	CJA
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 18:35	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 21:51	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 02:37	PC

Lab#: AC98905-003 **Sample ID: LMW-4-201707 U**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Chloride (Water) 300.0		07/19/17	Janee	300.0 rev2.1	7/19/17 17:00	Janee
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	JKR	EPA 8270D	7/12/17 18:01	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 03:32	WP

Lab#: AC98905-004 **Sample ID: LMW-4-201707 F**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:38	JMP
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 16:53	CJA
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 19:12	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 22:19	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 03:36	PC

Laboratory Chronicle

Client: TRC Engineering
HC Project #: 7071123
Project: Harrison Sub Residency

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Chloride (Water) 300.0		07/19/17	Janee	300.0 rev2.1	7/19/17 17:27	Janee
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	JKR	EPA 8270D	7/12/17 18:25	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 03:49	WP

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:41	JMP
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 16:54	CJA
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 19:16	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 22:22	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 03:42	PC

Lab#: AC98905-007 **Sample ID: SW-4-201707 U**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Chloride (Water) 300.0		07/19/17	Janee	300.0 rev2.1	7/19/17 19:16	Janee
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:43	JMP
Hardness 200.7	EPA 200.2	07/13/17 10:00	aadewusi	EPA 200.7	7/13/17 15:57	SRB
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 16:59	CJA
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	JKR	EPA 8270D	7/12/17 18:49	AH/JB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 19:20	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 22:25	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 03:48	PC
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 04:06	WP

Laboratory Chronicle

Client: TRC Engineering
Project: Harrison Sub Residency

HC Project #: 7071123

Lab#: AC98905-009 **Sample ID: SD-4-201707**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	7/12/17 00:00	jessica
Chloride (Soil) 9056A		07/12/17	Janee	EPA 9056A	7/12/17 23:46	Janee
Cyanide (Soil/Waste) 9012B		07/13/17	jessica	EPA 9012B	7/13/17 13:07	JMP
Mercury (Soil/Waste) 7471B	EPA 7471B	07/14/17 10:10	aadewusi	EPA 7471B	7/15/17 12:58	CJA
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	smarwala	EPA 8270D	7/13/17 12:21	AH/JB
TAL Metals 6010	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6010C	7/14/17 16:48	SRB
TAL Metals 6010	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6010C	7/14/17 20:21	SRB
TAL Metals 6020	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6020A	7/14/17 19:22	PC
TAL Metals 6020	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6020A	7/17/17 14:18	PC
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 16:50	SG

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Chloride (Water) 300.0		07/19/17	Janee	300.0 rev2.1	7/19/17 19:43	Janee
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:44	JMP
Hardness 200.7	EPA 200.2	07/13/17 10:00	aadewusi	EPA 200.7	7/13/17 16:20	SRB
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 17:01	CJA
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	JKR	EPA 8270D	7/12/17 16:25	AH/JB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 22:28	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 19:24	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 03:54	PC
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 04:22	WP

Lab#: AC98905-012 **Sample ID: SD-2-201707**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	7/12/17 00:00	jessica
Chloride (Soil) 9056A		07/12/17	Janee	EPA 9056A	7/13/17 02:02	Janee
Cyanide (Soil/Waste) 9012B		07/13/17	jessica	EPA 9012B	7/13/17 13:09	JMP
Mercury (Soil/Waste) 7471B	EPA 7471B	07/14/17 10:10	aadewusi	EPA 7471B	7/15/17 12:59	CJA
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	smarwala	EPA 8270D	7/13/17 12:44	AH/JB
TAL Metals 6010	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6010C	7/14/17 16:53	SRB
TAL Metals 6010	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6010C	7/14/17 20:25	SRB
TAL Metals 6010	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6010C	7/17/17 14:59	SRB
TAL Metals 6020	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6020A	7/14/17 19:27	PC
TAL Metals 6020	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6020A	7/17/17 14:24	PC
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 17:07	SG

Laboratory Chronicle

Client: TRC Engineering
Project: Harrison Sub Residency

HC Project #: 7071123

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Chloride (Water) 300.0		07/19/17	Janee	300.0 rev2.1	7/19/17 20:10	Janee
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:46	JMP
Hardness 200.7	EPA 200.2	07/13/17 10:00	aadewusi	EPA 200.7	7/13/17 16:23	SRB
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 17:02	CJA
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	JKR	EPA 8270D	7/12/17 19:13	AH/JB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 22:32	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 19:27	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 04:00	PC
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 04:39	WP

Lab#: AC98905-015 **Sample ID: SD-1-201707**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	7/12/17 00:00	jessica
Chloride (Soil) 9056A		07/12/17	Janee	EPA 9056A	7/13/17 02:30	Janee
Cyanide (Soil/Waste) 9012B		07/13/17	jessica	EPA 9012B	7/13/17 13:16	JMP
Mercury (Soil/Waste) 7471B	EPA 7471B	07/14/17 10:10	aadewusi	EPA 7471B	7/15/17 13:01	CJA
Semivolatile Organics (no search) 8270	3510C/3550C	07/12/17	smarwala	EPA 8270D	7/13/17 13:08	AH/JB
TAL Metals 6010	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6010C	7/14/17 16:57	SRB
TAL Metals 6010	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6010C	7/14/17 20:29	SRB
TAL Metals 6020	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6020A	7/14/17 19:33	PC
TAL Metals 6020	3005&10/3050	07/14/17 10:10	aadewusi	EPA 6020A	7/17/17 14:30	PC
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 17:24	SG

Lab#: AC98905-016 **Sample ID: TB-1-201707**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/12/17 21:43	WP

Laboratory Chronicle

Client: TRC Engineering
HC Project #: 7071123
Project: Harrison Sub Residency

Lab#: AC98905-017 **Sample ID: MW-11-201707 U**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Alkalinity-Bicarbonate (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
Alkalinity-Carbonate (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
Alkalinity-Total (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
BTEX & Extra Compunds (8260)	EPA5030/5035			EPA 8260C	7/13/17 04:55	WP
Nitrate-N (Water) 300.0		07/12/17	Janee	300.0 rev2.1	7/12/17 11:59	Janee
Sulfate (Water) 300.0		07/12/17	Janee	300.0 rev2.1	7/12/17 11:59	Janee

Lab#: AC98905-018 **Sample ID: MW-11-201707 F**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Metals Pair 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 20:20	SRB

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Chloride (Water) 300.0		07/19/17	Janee	300.0 rev2.1	7/19/17 20:37	Janee
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:48	JMP
Hardness 200.7	EPA 200.2	07/13/17 10:00	aadewusi	EPA 200.7	7/13/17 16:27	SRB
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 17:04	CJA
Semivolatile Organics (no search) 8270	3510C/3550C	07/13/17 11:30	lynda	EPA 8270D	7/13/17 17:56	AH/JB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 19:53	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 22:52	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 04:06	PC
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/14/17 23:08	WP

Laboratory Chronicle

Client: TRC Engineering
Project: Harrison Sub Residency

HC Project #: 7071123

Lab#: AC98940-001 **Sample ID: PC-1-201707 U**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Alkalinity-Bicarbonate (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
Alkalinity-Carbonate (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
Alkalinity-Total (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
Chloride (Water) 300.0		07/14/17	Janee	300.0 rev2.1	7/15/17 00:37	Janee
Nitrate-N (Water) 300.0		07/12/17	Janee	300.0 rev2.1	7/12/17 17:53	Janee
Semivolatile Organics (no search) 8270	3510C/3550C	07/14/17	jir/ap	EPA 8270D	7/14/17 18:19	AH/JB
Sulfate (Water) 300.0		07/14/17	Janee	300.0 rev2.1	7/15/17 00:37	Janee
Sulfide-Total (SM4500-S2F-11)	SM4500-S2F11	07/14/17	JMP	SM4500-S2F11	7/14/17 00:00	JMP
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/14/17 05:05	WP

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:17	JMP
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 17:05	CJA
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 22:55	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 19:57	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 04:12	PC

Lab#: AC98940-003 **Sample ID: PC-FD-201707 U**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Alkalinity-Bicarbonate (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
Alkalinity-Carbonate (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
Alkalinity-Total (SM2320B-97)		07/17/17	BCT	SM2320B-97	7/17/17 00:00	BCT
Chloride (Water) 300.0		07/14/17	Janee	300.0 rev2.1	7/15/17 01:04	Janee
Nitrate-N (Water) 300.0		07/12/17	Janee	300.0 rev2.1	7/12/17 18:20	Janee
Semivolatile Organics (no search) 8270	3510C/3550C	07/14/17	jir/ap	EPA 8270D	7/14/17 18:41	AH/JB
Sulfate (Water) 300.0		07/14/17	Janee	300.0 rev2.1	7/15/17 01:04	Janee
Sulfide-Total (SM4500-S2F-11)	SM4500-S2F11	07/14/17	JMP	SM4500-S2F11	7/14/17 00:00	JMP
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/14/17 05:22	WP

Laboratory Chronicle

Client: TRC Engineering

HC Project #: 7071123

Project: Harrison Sub Residency

Lab#: AC98940-004 **Sample ID: PC-FD-201707 F**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:27	JMP
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 17:07	CJA
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 20:01	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 22:59	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 04:17	PC

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Chloride (Water) 300.0		07/14/17	Janee	300.0 rev2.1	7/15/17 01:31	Janee
Semivolatile Organics (no search) 8270	3510C/3550C	07/14/17	jir/ap	EPA 8270D	7/14/17 19:03	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/14/17 05:39	WP

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

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Cyanide (Water) 9012		07/13/17	jessica	EPA 9012B	7/13/17 14:29	JMP
Mercury (Water) 7470A	EPA 7470A	07/13/17 12:00	carmela	EPA 7470A	7/17/17 17:08	CJA
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 20:04	SRB
TAL Metals 6010	3005&10/3050	07/13/17 12:00	carmela	EPA 6010C	7/13/17 23:02	SRB
TAL Metals 6020	3005&10/3050	07/13/17 12:00	carmela	EPA 6020A	7/14/17 04:23	PC

Lab#: AC98940-007 **Sample ID: TB-2-201707**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	7/13/17 22:39	WP

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

HC Report of Analysis

Client: TRC Engineering
HC Project #: 7071123
Project: Harrison Sub Residency

Sample ID: LMW-2-201707 U
Lab#: AC98905-001
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	15

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	0.87	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

Sample ID: LMW-2-201707 U **Collection Date: 7/10/2017**
Lab#: AC98905-001 **Receipt Date: 7/11/2017**
Matrix: Aqueous

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
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

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

Sample ID: LMW-2-201707 U **Collection Date: 7/10/2017**
Lab#: AC98905-001 **Receipt Date: 7/11/2017**
Matrix: Aqueous

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-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

Sample ID: LMW-4-201707 U **Collection Date: 7/10/2017**
Lab#: AC98905-003 **Receipt Date: 7/11/2017**
Matrix: Aqueous

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

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

Sample ID: LMW-4-201707 U **Collection Date: 7/10/2017**
Lab#: AC98905-003 **Receipt Date: 7/11/2017**
Matrix: Aqueous

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 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

Semivolatile 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

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

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

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

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

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

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

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 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 caco3/l	6.6	110

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	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

Sample ID: SW-4-201707 U **Collection Date: 7/11/2017**
Lab#: AC98905-007 **Receipt Date: 7/11/2017**
Matrix: Aqueous

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

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

Sample ID: SW-4-201707 U
Lab#: AC98905-007
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

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

Semivolatile 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

Sample ID: SD-4-201707 **Collection Date:** 7/11/2017
Lab#: AC98905-009 **Receipt Date:** 7/11/2017
Matrix: Sediment/Encore

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
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

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

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

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

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.07	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
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

Sample ID: SW-2-201707 U
Lab#: AC98905-010
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	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 caco3/l	6.6	110

Mercury (Water) 7470A

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

Semivolatile 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

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

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

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
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

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

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

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

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

% 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

Sample ID: SD-2-201707 **Collection Date:** 7/11/2017
Lab#: AC98905-012 **Receipt Date:** 7/11/2017
Matrix: Sediment/Encore

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
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**

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

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

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

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.77	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
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

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 caco3/l	6.6	120

Mercury (Water) 7470A

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

Semivolatile 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

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

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

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
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

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

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

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

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

% 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

Sample ID: SD-1-201707 **Collection Date:** 7/11/2017
Lab#: AC98905-015 **Receipt Date:** 7/11/2017
Matrix: Sediment/Encore

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
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**

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

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

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

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
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

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

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 caco3/l**	**10**	**280**

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**	**280**

BTEX & Extra Compunds (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

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 caco3/l	6.6	120

Mercury (Water) 7470A

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

Semivolatile 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

Sample ID: SW-FD-201707 U **Collection Date: 7/11/2017**
Lab#: AC98905-019 **Receipt Date: 7/11/2017**
Matrix: Aqueous

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
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

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

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

Sample ID: PC-1-201707 U
Lab#: AC98940-001
Matrix: Aqueous

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

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

Sample ID: PC-1-201707 U
Lab#: AC98940-001
Matrix: Aqueous

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

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
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

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

Sample ID: PC-1-201707 U **Collection Date: 7/12/2017**
Lab#: AC98940-001 **Receipt Date: 7/12/2017**
Matrix: Aqueous

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-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 caco3/l**	**10**	**400**

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**	**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

Sample ID: PC-FD-201707 U
Lab#: AC98940-003
Matrix: Aqueous

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

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
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

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

Sample ID: PC-FD-201707 U
Lab#: AC98940-003
Matrix: Aqueous

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

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-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

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

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

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

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

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

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

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 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

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M113569.D
Analysis Date: 07/12/17 18:40
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M56043.D
Analysis Date: 07/13/17 10:42
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0010	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M113747.D
Analysis Date: 07/14/17 20:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M113658.D
Analysis Date: 07/13/17 19:39
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 430846

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M113569.D
Analysis Date: 07/12/17 18:40
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-43-2	Benzene	0.50	U	1634-04-4	Methyl-t-butyl ether	0.50	U
100-41-4	Ethylbenzene	1.0	U	95-47-6	o-Xylene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U

Worksheet #: 430553

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-001
Client Id: LMW-2-201707 U
Data File: 3M113600.D
Analysis Date: 07/13/17 03:16
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-003
Client Id: LMW-4-201707 U
Data File: 3M113601.D
Analysis Date: 07/13/17 03:32
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-005
Client Id: PC-2-201707 U
Data File: 3M113602.D
Analysis Date: 07/13/17 03:49
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-007
Client Id: SW-4-201707 U
Data File: 3M113603.D
Analysis Date: 07/13/17 04:06
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-009
Client Id: SD-4-201707
Data File: 6M56065.D
Analysis Date: 07/13/17 16:50
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.69g
Final Vol: NA
Dilution: 1.07
Solids: 68

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0031	U	56-23-5	Carbon Tetrachloride	0.0031	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0031	U	108-90-7	Chlorobenzene	0.0031	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0031	U	75-00-3	Chloroethane	0.0031	U
79-00-5	1,1,2-Trichloroethane	0.0031	U	67-66-3	Chloroform	0.0031	U
75-34-3	1,1-Dichloroethane	0.0031	U	74-87-3	Chloromethane	0.0031	U
75-35-4	1,1-Dichloroethene	0.0031	U	156-59-2	cis-1,2-Dichloroethene	0.0031	U
87-61-6	1,2,3-Trichlorobenzene	0.0031	U	10061-01-5	cis-1,3-Dichloropropene	0.0031	U
120-82-1	1,2,4-Trichlorobenzene	0.0031	U	110-82-7	Cyclohexane	0.0031	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0031	U	124-48-1	Dibromochloromethane	0.0031	U
106-93-4	1,2-Dibromoethane	0.0016	U	75-71-8	Dichlorodifluoromethane	0.0031	U
95-50-1	1,2-Dichlorobenzene	0.0031	U	100-41-4	Ethylbenzene	0.0016	U
107-06-2	1,2-Dichloroethane	0.0031	U	98-82-8	Isopropylbenzene	0.0016	U
78-87-5	1,2-Dichloropropane	0.0031	U	79601-23-1	m&p-Xylenes	0.0016	U
541-73-1	1,3-Dichlorobenzene	0.0031	U	79-20-9	Methyl Acetate	0.0031	U
106-46-7	1,4-Dichlorobenzene	0.0031	U	108-87-2	Methylcyclohexane	0.0031	U
123-91-1	1,4-Dioxane	0.16	U	75-09-2	Methylene Chloride	0.0031	U
78-93-3	2-Butanone	0.0031	U	1634-04-4	Methyl-t-butyl ether	0.0016	U
591-78-6	2-Hexanone	0.0031	U	95-47-6	o-Xylene	0.0016	U
108-10-1	4-Methyl-2-Pentanone	0.0031	U	100-42-5	Styrene	0.0031	U
67-64-1	Acetone	0.016	U	127-18-4	Tetrachloroethene	0.0031	U
71-43-2	Benzene	0.0016	U	108-88-3	Toluene	0.0016	U
74-97-5	Bromochloromethane	0.0031	U	156-60-5	trans-1,2-Dichloroethene	0.0031	U
75-27-4	Bromodichloromethane	0.0031	U	10061-02-6	trans-1,3-Dichloropropene	0.0031	U
75-25-2	Bromoform	0.0031	U	79-01-6	Trichloroethene	0.0031	U
74-83-9	Bromomethane	0.0031	U	75-69-4	Trichlorofluoromethane	0.0031	U
75-15-0	Carbon Disulfide	0.0031	U	75-01-4	Vinyl Chloride	0.0031	U
1330-20-7	Xylenes (Total)	0.0016	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-010
Client Id: SW-2-201707 U
Data File: 3M113604.D
Analysis Date: 07/13/17 04:22
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-012
Client Id: SD-2-201707
Data File: 6M56066.D
Analysis Date: 07/13/17 17:07
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 2.82g
Final Vol: NA
Dilution: 1.77
Solids: 12

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.030	U	56-23-5	Carbon Tetrachloride	0.030	U
79-34-5	1,1,2,2-Tetrachloroethane	0.030	U	108-90-7	Chlorobenzene	0.030	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.030	U	75-00-3	Chloroethane	0.030	U
79-00-5	1,1,2-Trichloroethane	0.030	U	67-66-3	Chloroform	0.030	U
75-34-3	1,1-Dichloroethane	0.030	U	74-87-3	Chloromethane	0.030	U
75-35-4	1,1-Dichloroethene	0.030	U	156-59-2	cis-1,2-Dichloroethene	0.030	U
87-61-6	1,2,3-Trichlorobenzene	0.030	U	10061-01-5	cis-1,3-Dichloropropene	0.030	U
120-82-1	1,2,4-Trichlorobenzene	0.030	U	110-82-7	Cyclohexane	0.030	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.030	U	124-48-1	Dibromochloromethane	0.030	U
106-93-4	1,2-Dibromoethane	0.015	U	75-71-8	Dichlorodifluoromethane	0.030	U
95-50-1	1,2-Dichlorobenzene	0.030	U	100-41-4	Ethylbenzene	0.015	U
107-06-2	1,2-Dichloroethane	0.030	U	98-82-8	Isopropylbenzene	0.015	U
78-87-5	1,2-Dichloropropane	0.030	U	79601-23-1	m&p-Xylenes	0.015	U
541-73-1	1,3-Dichlorobenzene	0.030	U	79-20-9	Methyl Acetate	0.030	U
106-46-7	1,4-Dichlorobenzene	0.030	U	108-87-2	Methylcyclohexane	0.030	U
123-91-1	1,4-Dioxane	1.5	U	75-09-2	Methylene Chloride	0.030	U
78-93-3	2-Butanone	0.030	U	1634-04-4	Methyl-t-butyl ether	0.015	U
591-78-6	2-Hexanone	0.030	U	95-47-6	o-Xylene	0.015	U
108-10-1	4-Methyl-2-Pentanone	0.030	U	100-42-5	Styrene	0.030	U
67-64-1	Acetone	0.15	U	127-18-4	Tetrachloroethene	0.030	U
71-43-2	Benzene	0.015	U	108-88-3	Toluene	0.015	U
74-97-5	Bromochloromethane	0.030	U	156-60-5	trans-1,2-Dichloroethene	0.030	U
75-27-4	Bromodichloromethane	0.030	U	10061-02-6	trans-1,3-Dichloropropene	0.030	U
75-25-2	Bromoform	0.030	U	79-01-6	Trichloroethene	0.030	U
74-83-9	Bromomethane	0.030	U	75-69-4	Trichlorofluoromethane	0.030	U
75-15-0	Carbon Disulfide	0.030	U	75-01-4	Vinyl Chloride	0.030	U
1330-20-7	Xylenes (Total)	0.015	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-013
Client Id: SW-1-201707 U
Data File: 3M113605.D
Analysis Date: 07/13/17 04:39
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-015
Client Id: SD-1-201707
Data File: 6M56067.D
Analysis Date: 07/13/17 17:24
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.13g
Final Vol: NA
Dilution: 0.975
Solids: 48

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0041	U	56-23-5	Carbon Tetrachloride	0.0041	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0041	U	108-90-7	Chlorobenzene	0.0041	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0041	U	75-00-3	Chloroethane	0.0041	U
79-00-5	1,1,2-Trichloroethane	0.0041	U	67-66-3	Chloroform	0.0041	U
75-34-3	1,1-Dichloroethane	0.0041	U	74-87-3	Chloromethane	0.0041	U
75-35-4	1,1-Dichloroethene	0.0041	U	156-59-2	cis-1,2-Dichloroethene	0.0041	U
87-61-6	1,2,3-Trichlorobenzene	0.0041	U	10061-01-5	cis-1,3-Dichloropropene	0.0041	U
120-82-1	1,2,4-Trichlorobenzene	0.0041	U	110-82-7	Cyclohexane	0.0041	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0041	U	124-48-1	Dibromochloromethane	0.0041	U
106-93-4	1,2-Dibromoethane	0.0020	U	75-71-8	Dichlorodifluoromethane	0.0041	U
95-50-1	1,2-Dichlorobenzene	0.0041	U	100-41-4	Ethylbenzene	0.0020	U
107-06-2	1,2-Dichloroethane	0.0041	U	98-82-8	Isopropylbenzene	0.0020	U
78-87-5	1,2-Dichloropropane	0.0041	U	79601-23-1	m&p-Xylenes	0.0020	U
541-73-1	1,3-Dichlorobenzene	0.0041	U	79-20-9	Methyl Acetate	0.0041	U
106-46-7	1,4-Dichlorobenzene	0.0041	U	108-87-2	Methylcyclohexane	0.0041	U
123-91-1	1,4-Dioxane	0.20	U	75-09-2	Methylene Chloride	0.0041	U
78-93-3	2-Butanone	0.0041	U	1634-04-4	Methyl-t-butyl ether	0.0020	U
591-78-6	2-Hexanone	0.0041	U	95-47-6	o-Xylene	0.0020	U
108-10-1	4-Methyl-2-Pentanone	0.0041	U	100-42-5	Styrene	0.0041	U
67-64-1	Acetone	0.020	U	127-18-4	Tetrachloroethene	0.0041	U
71-43-2	Benzene	0.0020	U	108-88-3	Toluene	0.0020	U
74-97-5	Bromochloromethane	0.0041	U	156-60-5	trans-1,2-Dichloroethene	0.0041	U
75-27-4	Bromodichloromethane	0.0041	U	10061-02-6	trans-1,3-Dichloropropene	0.0041	U
75-25-2	Bromoform	0.0041	U	79-01-6	Trichloroethene	0.0041	U
74-83-9	Bromomethane	0.0041	U	75-69-4	Trichlorofluoromethane	0.0041	U
75-15-0	Carbon Disulfide	0.0041	U	75-01-4	Vinyl Chloride	0.0041	U
1330-20-7	Xylenes (Total)	0.0020	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-016
Client Id: TB-1-201707
Data File: 3M113580.D
Analysis Date: 07/12/17 21:43
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-017
Client Id: MW-11-201707 U
Data File: 3M113606.D
Analysis Date: 07/13/17 04:55
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-43-2	Benzene	0.50	U	1634-04-4	Methyl-t-butyl ether	0.50	U
100-41-4	Ethylbenzene	1.0	U	95-47-6	o-Xylene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430553

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98905-019
Client Id: SW-FD-201707 U
Data File: 3M113758.D
Analysis Date: 07/14/17 23:08
Date Rec/Extracted: 07/11/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430911

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98940-001
Client Id: PC-1-201707 U
Data File: 3M113692.D
Analysis Date: 07/14/17 05:05
Date Rec/Extracted: 07/12/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430846

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98940-003
Client Id: PC-FD-201707 U
Data File: 3M113693.D
Analysis Date: 07/14/17 05:22
Date Rec/Extracted: 07/12/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430846

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98940-005
Client Id: PC-3-201707 U
Data File: 3M113694.D
Analysis Date: 07/14/17 05:39
Date Rec/Extracted: 07/12/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430846

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC98940-007
Client Id: TB-2-201707
Data File: 3M113669.D
Analysis Date: 07/13/17 22:39
Date Rec/Extracted: 07/12/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 430846

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61645

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M113540.D	MBS61645	7/12/2017 10:18:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	20.0334	0	20	100	50	150
Dichlorodifluoromethane	1	16.3984	0	20	82	50	150
Chloromethane	1	16.8129	0	20	84	50	150
Bromomethane	1	26.2241	0	20	131	50	150
Vinyl Chloride	1	18.9941	0	20	95	50	150
Chloroethane	1	25.1753	0	20	126	50	150
Trichlorofluoromethane	1	25.9919	0	20	130	50	150
Ethyl ether	1	18.807	0	20	94	50	150
Furan	1	18.6908	0	20	93	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.9894	0	20	115	50	150
Methylene Chloride	1	21.066	0	20	105	70	130
Acrolein	1	72.5323	0	100	73	50	150
Acrylonitrile	1	19.2802	0	20	96	50	150
Iodomethane	1	24.4545	0	20	122	50	150
Acetone	1	115.5922	0	100	116	50	150
Carbon Disulfide	1	21.4988	0	20	107	50	150
t-Butyl Alcohol	1	80.6762	0	100	81	50	150
n-Hexane	1	20.2224	0	20	101	70	130
Di-isopropyl-ether	1	18.1719	0	20	91	70	130
1,1-Dichloroethene	1	23.0097	0	20	115	70	130
Methyl Acetate	1	17.2483	0	20	86	50	150
Methyl-t-butyl ether	1	20.4139	0	20	102	70	130
1,1-Dichloroethane	1	20.9065	0	20	105	70	130
trans-1,2-Dichloroethene	1	23.6638	0	20	118	70	130
Ethyl-t-butyl ether	1	18.4847	0	20	92	70	130
cis-1,2-Dichloroethene	1	21.2751	0	20	106	70	130
Bromochloromethane	1	19.902	0	20	100	70	130
2,2-Dichloropropane	1	27.3248	0	20	137*	70	130
Ethyl acetate	1	23.959	0	20	120	50	130
1,4-Dioxane	1	948.7651	0	1000	95	50	150
1,1-Dichloropropene	1	24.1197	0	20	121	70	130
Chloroform	1	22.5816	0	20	113	70	130
Cyclohexane	1	19.3246	0	20	97	70	130
1,2-Dichloroethane	1	23.2121	0	20	116	70	130
2-Butanone	1	19.5347	0	20	98	50	150
1,1,1-Trichloroethane	1	25.6405	0	20	128	70	130
Carbon Tetrachloride	1	28.2169	0	20	141	50	150
Vinyl Acetate	1	20.6989	0	20	103	50	150
Bromodichloromethane	1	22.8546	0	20	114	70	130
Methylcyclohexane	1	21.1004	0	20	106	70	130
Dibromomethane	1	24.5282	0	20	123	70	130
1,2-Dichloropropane	1	19.3053	0	20	97	70	130
Trichloroethene	1	23.8965	0	20	119	70	130
Benzene	1	21.5539	0	20	108	70	130
tert-Amyl methyl ether	1	19.2415	0	20	96	70	130
Iso-propylacetate	1	17.6488	0	20	88	70	130
Methyl methacrylate	1	20.172	0	20	101	70	130
Dibromochloromethane	1	23.1794	0	20	116	70	130
2-Chloroethylvinylether	1	17.7117	0	20	89	70	130
cis-1,3-Dichloropropene	1	19.5106	0	20	98	70	130
trans-1,3-Dichloropropene	1	19.9097	0	20	100	70	130
Ethyl methacrylate	1	17.9938	0	20	90	70	130
1,1,2-Trichloroethane	1	19.0037	0	20	95	70	130
1,2-Dibromoethane	1	20.7725	0	20	104	70	130
1,3-Dichloropropane	1	20.4544	0	20	102	70	130
4-Methyl-2-Pentanone	1	17.6051	0	20	88	50	150
2-Hexanone	1	18.1609	0	20	91	50	150
Tetrachloroethene	1	24.1807	0	20	121	50	130
Toluene	1	20.5892	0	20	103	70	130
1,1,1,2-Tetrachloroethane	1	24.3253	0	20	122	70	130
Chlorobenzene	1	20.596	0	20	103	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61645

n-Butyl acrylate	1	15.541	0	20	78	70	130
n-Amyl acetate	1	15.2782	0	20	76	70	130
Bromoform	1	18.7497	0	20	94	70	130
Ethylbenzene	1	20.7421	0	20	104	70	130
1,1,2,2-Tetrachloroethane	1	17.2815	0	20	86	70	130
Styrene	1	19.3833	0	20	97	70	130
m&p-Xylenes	1	39.2013	0	40	98	70	130
o-Xylene	1	20.9111	0	20	105	70	130
trans-1,4-Dichloro-2-butene	1	19.6415	0	20	98	50	150
1,3-Dichlorobenzene	1	19.4829	0	20	97	70	130
1,4-Dichlorobenzene	1	19.9837	0	20	100	70	130
1,2-Dichlorobenzene	1	19.204	0	20	96	70	130
Isopropylbenzene	1	21.1871	0	20	106	70	130
Cyclohexanone	1	230.4999	0	100	230 *	50	150
Camphene	1	19.5316	0	20	98	70	130
1,2,3-Trichloropropane	1	17.4211	0	20	87	70	130
2-Chlorotoluene	1	22.2647	0	20	111	70	130
p-Ethyltoluene	1	21.2868	0	20	106	70	130
4-Chlorotoluene	1	19.6952	0	20	98	70	130
n-Propylbenzene	1	21.1902	0	20	106	70	130
Bromobenzene	1	19.52	0	20	98	70	130
1,3,5-Trimethylbenzene	1	22.726	0	20	114	70	130
Butyl methacrylate	1	17.8679	0	20	89	70	130
t-Butylbenzene	1	21.0564	0	20	105	70	130
1,2,4-Trimethylbenzene	1	20.5747	0	20	103	70	130
sec-Butylbenzene	1	20.5297	0	20	103	70	130
4-Isopropyltoluene	1	20.0134	0	20	100	70	130
n-Butylbenzene	1	20.8123	0	20	104	70	130
p-Diethylbenzene	1	20.1185	0	20	101	70	130
1,2,4,5-Tetramethylbenzene	1	21.3927	0	20	107	70	130
1,2-Dibromo-3-Chloropropane	1	16.8309	0	20	84	50	150
Camphor	1	166.7185	0	200	83	50	150
Hexachlorobutadiene	1	18.8523	0	20	94	50	150
1,2,4-Trichlorobenzene	1	20.5581	0	20	103	70	130
1,2,3-Trichlorobenzene	1	20.4266	0	20	102	70	130
Naphthalene	1	21.0633	0	20	105	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61646

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M55969.D	MBS61646	7/12/2017 11:15:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	36.9552	0	50	74	20	130
Dichlorodifluoromethane	1	33.9592	0	50	68	20	130
Chloromethane	1	35.5592	0	50	71	20	130
Bromomethane	1	38.2041	0	50	76	20	130
Vinyl Chloride	1	32.7072	0	50	65	20	130
Chloroethane	1	37.954	0	50	76	20	130
Trichlorofluoromethane	1	40.4967	0	50	81	20	130
Ethyl ether	1	36.7015	0	50	73	50	130
Furan	1	36.1561	0	50	72	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	37.9582	0	50	76	50	130
Methylene Chloride	1	43.2978	0	50	87	50	130
Acrolein	1	151.9172	0	200	76	20	130
Acrylonitrile	1	42.3039	0	50	85	20	130
Iodomethane	1	45.5614	0	50	91	50	130
Acetone	1	207.908	0	200	104	20	130
Carbon Disulfide	1	35.603	0	50	71	50	130
t-Butyl Alcohol	1	262.5174	0	200	131 *	20	130
n-Hexane	1	38.749	0	50	77	50	130
Di-isopropyl-ether	1	37.9373	0	50	76	50	130
1,1-Dichloroethene	1	32.263	0	50	65	50	130
Methyl Acetate	1	40.4576	0	50	81	50	130
Methyl-t-butyl ether	1	40.7561	0	50	82	50	130
1,1-Dichloroethane	1	37.3363	0	50	75	50	130
trans-1,2-Dichloroethene	1	37.7616	0	50	76	50	130
Ethyl-t-butyl ether	1	37.5956	0	50	75	50	130
cis-1,2-Dichloroethene	1	37.7381	0	50	75	50	130
Bromochloromethane	1	29.7157	0	50	59	50	130
2,2-Dichloropropane	1	38.3836	0	50	77	50	130
Ethyl acetate	1	35.7205	0	50	71	50	130
1,4-Dioxane	1	2115.037	0	2500	85	50	130
1,1-Dichloropropene	1	39.7191	0	50	79	50	130
Chloroform	1	37.7115	0	50	75	50	130
Cyclohexane	1	38.5078	0	50	77	50	130
1,2-Dichloroethane	1	40.2893	0	50	81	50	130
2-Butanone	1	57.4784	0	50	115	20	130
1,1,1-Trichloroethane	1	39.688	0	50	79	50	130
Carbon Tetrachloride	1	39.5408	0	50	79	50	130
Vinyl Acetate	1	37.7908	0	50	76	50	130
Bromodichloromethane	1	33.6359	0	50	67	50	130
Methylcyclohexane	1	40.0014	0	50	80	50	130
Dibromomethane	1	37.3538	0	50	75	50	130
1,2-Dichloropropane	1	36.6083	0	50	73	50	130
Trichloroethene	1	38.8905	0	50	78	50	130
Benzene	1	43.7183	0	50	87	50	130
tert-Amyl methyl ether	1	37.3891	0	50	75	50	130
Iso-propylacetate	1	41.2046	0	50	82	50	130
Methyl methacrylate	1	44.7073	0	50	89	50	130
Dibromochloromethane	1	40.9204	0	50	82	50	130
2-Chloroethylvinylether	1	40.9732	0	50	82	50	130
cis-1,3-Dichloropropene	1	39.595	0	50	79	50	130
trans-1,3-Dichloropropene	1	38.1515	0	50	76	50	130
Ethyl methacrylate	1	39.5381	0	50	79	50	130
1,1,2-Trichloroethane	1	39.1101	0	50	78	50	130
1,2-Dibromoethane	1	41.9726	0	50	84	50	130
1,3-Dichloropropane	1	44.5932	0	50	89	50	130
4-Methyl-2-Pentanone	1	49.8243	0	50	100	20	130
2-Hexanone	1	39.4748	0	50	79	20	130
Tetrachloroethene	1	35.9604	0	50	72	50	130
Toluene	1	42.7394	0	50	85	50	130
1,1,1,2-Tetrachloroethane	1	40.7996	0	50	82	50	130
Chlorobenzene	1	38.9118	0	50	78	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61646

n-Butyl acrylate	1	40.3371	0	50	81	50	130
n-Amyl acetate	1	33.7631	0	50	68	50	130
Bromoform	1	30.2701	0	50	61	20	130
Ethylbenzene	1	36.6521	0	50	73	50	130
1,1,2,2-Tetrachloroethane	1	45.6845	0	50	91	50	130
Styrene	1	41.0783	0	50	82	50	130
m&p-Xylenes	1	83.307	0	100	83	50	130
o-Xylene	1	40.4016	0	50	81	50	130
trans-1,4-Dichloro-2-butene	1	40.1958	0	50	80	20	130
1,3-Dichlorobenzene	1	36.2231	0	50	72	50	130
1,4-Dichlorobenzene	1	34.1394	0	50	68	50	130
1,2-Dichlorobenzene	1	33.6538	0	50	67	50	130
Isopropylbenzene	1	39.4899	0	50	79	50	130
Cyclohexanone	1	219.6233	0	250	88	50	130
Camphene	1	39.0554	0	50	78	50	130
1,2,3-Trichloropropane	1	43.7527	0	50	88	50	130
2-Chlorotoluene	1	42.8414	0	50	86	50	130
p-Ethyltoluene	1	42.2667	0	50	85	50	130
4-Chlorotoluene	1	42.6901	0	50	85	50	130
n-Propylbenzene	1	40.8062	0	50	82	50	130
Bromobenzene	1	40.898	0	50	82	50	130
1,3,5-Trimethylbenzene	1	44.1427	0	50	88	50	130
Butyl methacrylate	1	39.6196	0	50	79	50	130
t-Butylbenzene	1	39.5195	0	50	79	50	130
1,2,4-Trimethylbenzene	1	41.9471	0	50	84	50	130
sec-Butylbenzene	1	40.2687	0	50	81	50	130
4-Isopropyltoluene	1	39.6325	0	50	79	50	130
n-Butylbenzene	1	42.7553	0	50	86	50	130
p-Diethylbenzene	1	39.6653	0	50	79	50	130
1,2,4,5-Tetramethylbenzene	1	39.3468	0	50	79	50	130
1,2-Dibromo-3-Chloropropane	1	46.7926	0	50	94	50	130
Camphor	1	173.6539	0	500	35*	50	130
Hexachlorobutadiene	1	31.2456	0	50	62	50	130
1,2,4-Trichlorobenzene	1	37.3744	0	50	75	50	130
1,2,3-Trichlorobenzene	1	33.7797	0	50	68	50	130
Naphthalene	1	32.5087	0	50	65	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61650

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M113598.D	MBS61650	7/13/2017 2:43:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	18.0114	0	20	90	50	150
Dichlorodifluoromethane	1	9.0757	0	20	45*	50	150
Chloromethane	1	14.1027	0	20	71	50	150
Bromomethane	1	18.9467	0	20	95	50	150
Vinyl Chloride	1	13.5347	0	20	68	50	150
Chloroethane	1	20.9855	0	20	105	50	150
Trichlorofluoromethane	1	21.8537	0	20	109	50	150
Ethyl ether	1	16.4698	0	20	82	50	150
Furan	1	15.7976	0	20	79	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	19.8828	0	20	99	50	150
Methylene Chloride	1	18.6233	0	20	93	70	130
Acrolein	1	57.4514	0	100	57	50	150
Acrylonitrile	1	15.1778	0	20	76	50	150
Iodomethane	1	22.4157	0	20	112	50	150
Acetone	1	77.016	0	100	77	50	150
Carbon Disulfide	1	18.3493	0	20	92	50	150
t-Butyl Alcohol	1	58.8712	0	100	59	50	150
n-Hexane	1	15.3106	0	20	77	70	130
Di-isopropyl-ether	1	15.6351	0	20	78	70	130
1,1-Dichloroethene	1	20.4772	0	20	102	70	130
Methyl Acetate	1	13.4605	0	20	67	50	150
Methyl-t-butyl ether	1	17.2532	0	20	86	70	130
1,1-Dichloroethane	1	18.8529	0	20	94	70	130
trans-1,2-Dichloroethene	1	20.6761	0	20	103	70	130
Ethyl-t-butyl ether	1	16.7595	0	20	84	70	130
cis-1,2-Dichloroethene	1	18.2908	0	20	91	70	130
Bromochloromethane	1	18.2794	0	20	91	70	130
2,2-Dichloropropane	1	19.1983	0	20	96	70	130
Ethyl acetate	1	20.9738	0	20	105	50	130
1,4-Dioxane	1	795.6375	0	1000	80	50	150
1,1-Dichloropropene	1	20.6869	0	20	103	70	130
Chloroform	1	21.2004	0	20	106	70	130
Cyclohexane	1	15.7964	0	20	79	70	130
1,2-Dichloroethane	1	21.2897	0	20	106	70	130
2-Butanone	1	12.398	0	20	62	50	150
1,1,1-Trichloroethane	1	23.0079	0	20	115	70	130
Carbon Tetrachloride	1	25.5618	0	20	128	50	150
Vinyl Acetate	1	18.1373	0	20	91	50	150
Bromodichloromethane	1	21.1506	0	20	106	70	130
Methylcyclohexane	1	17.0793	0	20	85	70	130
Dibromomethane	1	22.0268	0	20	110	70	130
1,2-Dichloropropane	1	17.0511	0	20	85	70	130
Trichloroethene	1	20.592	0	20	103	70	130
Benzene	1	18.963	0	20	95	70	130
tert-Amyl methyl ether	1	17.0872	0	20	85	70	130
Iso-propylacetate	1	15.3809	0	20	77	70	130
Methyl methacrylate	1	17.3515	0	20	87	70	130
Dibromochloromethane	1	21.8009	0	20	109	70	130
2-Chloroethylvinylether	1	14.3514	0	20	72	70	130
cis-1,3-Dichloropropene	1	16.8341	0	20	84	70	130
trans-1,3-Dichloropropene	1	17.3524	0	20	87	70	130
Ethyl methacrylate	1	15.8332	0	20	79	70	130
1,1,2-Trichloroethane	1	17.7861	0	20	89	70	130
1,2-Dibromoethane	1	18.8156	0	20	94	70	130
1,3-Dichloropropane	1	18.2827	0	20	91	70	130
4-Methyl-2-Pentanone	1	13.8302	0	20	69	50	150
2-Hexanone	1	14.6081	0	20	73	50	150
Tetrachloroethene	1	22.1216	0	20	111	50	130
Toluene	1	18.2764	0	20	91	70	130
1,1,1,2-Tetrachloroethane	1	22.6697	0	20	113	70	130
Chlorobenzene	1	18.4878	0	20	92	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61650

n-Butyl acrylate	1	13.4923	0	20	67*	70	130
n-Amyl acetate	1	12.0464	0	20	60*	70	130
Bromoform	1	17.713	0	20	89	70	130
Ethylbenzene	1	17.8133	0	20	89	70	130
1,1,2,2-Tetrachloroethane	1	14.7606	0	20	74	70	130
Styrene	1	18.0269	0	20	90	70	130
m&p-Xylenes	1	34.7746	0	40	87	70	130
o-Xylene	1	17.7967	0	20	89	70	130
trans-1,4-Dichloro-2-butene	1	15.2059	0	20	76	50	150
1,3-Dichlorobenzene	1	18.1593	0	20	91	70	130
1,4-Dichlorobenzene	1	18.3618	0	20	92	70	130
1,2-Dichlorobenzene	1	17.9576	0	20	90	70	130
Isopropylbenzene	1	18.1992	0	20	91	70	130
Cyclohexanone	1	55.0526	0	100	55	50	150
Camphene	1	16.3233	0	20	82	70	130
1,2,3-Trichloropropane	1	15.4205	0	20	77	70	130
2-Chlorotoluene	1	19.1846	0	20	96	70	130
p-Ethyltoluene	1	17.9994	0	20	90	70	130
4-Chlorotoluene	1	18.2388	0	20	91	70	130
n-Propylbenzene	1	18.9278	0	20	95	70	130
Bromobenzene	1	17.7909	0	20	89	70	130
1,3,5-Trimethylbenzene	1	22.0231	0	20	110	70	130
Butyl methacrylate	1	15.3024	0	20	77	70	130
t-Butylbenzene	1	18.6265	0	20	93	70	130
1,2,4-Trimethylbenzene	1	17.9574	0	20	90	70	130
sec-Butylbenzene	1	18.5392	0	20	93	70	130
4-Isopropyltoluene	1	18.8476	0	20	94	70	130
n-Butylbenzene	1	18.8902	0	20	94	70	130
p-Diethylbenzene	1	17.5849	0	20	88	70	130
1,2,4,5-Tetramethylbenzene	1	18.2284	0	20	91	70	130
1,2-Dibromo-3-Chloropropane	1	14.4635	0	20	72	50	150
Camphor	1	145.0945	0	200	73	50	150
Hexachlorobutadiene	1	17.602	0	20	88	50	150
1,2,4-Trichlorobenzene	1	19.7509	0	20	99	70	130
1,2,3-Trichlorobenzene	1	18.7033	0	20	94	70	130
Naphthalene	1	16.343	0	20	82	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61654

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M56061.D	MBS61654	7/13/2017 3:43:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Soil | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	46.0771	0	50	92	20	130
Dichlorodifluoromethane	1	73.3755	0	50	147*	20	130
Chloromethane	1	62.4428	0	50	125	20	130
Bromomethane	1	43.97	0	50	88	20	130
Vinyl Chloride	1	43.5201	0	50	87	20	130
Chloroethane	1	46.0569	0	50	92	20	130
Trichlorofluoromethane	1	56.0016	0	50	112	20	130
Ethyl ether	1	49.6801	0	50	99	50	130
Furan	1	53.4192	0	50	107	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	52.3033	0	50	105	50	130
Methylene Chloride	1	62.2867	0	50	125	50	130
Acrolein	1	388.9996	0	200	194*	20	130
Acrylonitrile	1	55.0982	0	50	110	20	130
Iodomethane	1	66.467	0	50	133*	50	130
Acetone	1	320.0024	0	200	160*	20	130
Carbon Disulfide	1	53.7319	0	50	107	50	130
t-Butyl Alcohol	1	260.9351	0	200	130	20	130
n-Hexane	1	55.1659	0	50	110	50	130
Di-isopropyl-ether	1	49.3154	0	50	99	50	130
1,1-Dichloroethene	1	64.5488	0	50	129	50	130
Methyl Acetate	1	61.2307	0	50	122	50	130
Methyl-t-butyl ether	1	52.3852	0	50	105	50	130
1,1-Dichloroethane	1	51.8554	0	50	104	50	130
trans-1,2-Dichloroethene	1	53.1251	0	50	106	50	130
Ethyl-t-butyl ether	1	51.2907	0	50	103	50	130
cis-1,2-Dichloroethene	1	50.4443	0	50	101	50	130
Bromochloromethane	1	62.8537	0	50	126	50	130
2,2-Dichloropropane	1	52.9383	0	50	106	50	130
Ethyl acetate	1	57.5835	0	50	115	50	130
1,4-Dioxane	1	2308.678	0	2500	92	50	130
1,1-Dichloropropene	1	54.6579	0	50	109	50	130
Chloroform	1	50.8085	0	50	102	50	130
Cyclohexane	1	55.468	0	50	111	50	130
1,2-Dichloroethane	1	50.675	0	50	101	50	130
2-Butanone	1	50.3425	0	50	101	20	130
1,1,1-Trichloroethane	1	54.8288	0	50	110	50	130
Carbon Tetrachloride	1	56.3286	0	50	113	50	130
Vinyl Acetate	1	57.6292	0	50	115	50	130
Bromodichloromethane	1	48.1849	0	50	96	50	130
Methylcyclohexane	1	55.4614	0	50	111	50	130
Dibromomethane	1	52.4765	0	50	105	50	130
1,2-Dichloropropane	1	49.8526	0	50	100	50	130
Trichloroethene	1	54.3535	0	50	109	50	130
Benzene	1	61.0963	0	50	122	50	130
tert-Amyl methyl ether	1	49.5256	0	50	99	50	130
Iso-propylacetate	1	47.5789	0	50	95	50	130
Methyl methacrylate	1	48.296	0	50	97	50	130
Dibromochloromethane	1	54.5647	0	50	109	50	130
2-Chloroethylvinylether	1	58.323	0	50	117	50	130
cis-1,3-Dichloropropene	1	48.5112	0	50	97	50	130
trans-1,3-Dichloropropene	1	45.1682	0	50	90	50	130
Ethyl methacrylate	1	49.0208	0	50	98	50	130
1,1,2-Trichloroethane	1	50.0553	0	50	100	50	130
1,2-Dibromoethane	1	52.3964	0	50	105	50	130
1,3-Dichloropropane	1	50.2648	0	50	101	50	130
4-Methyl-2-Pentanone	1	52.2735	0	50	105	20	130
2-Hexanone	1	47.2975	0	50	95	20	130
Tetrachloroethene	1	48.0848	0	50	96	50	130
Toluene	1	55.0367	0	50	110	50	130
1,1,1,2-Tetrachloroethane	1	49.3915	0	50	99	50	130
Chlorobenzene	1	50.5415	0	50	101	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61654

n-Butyl acrylate	1	54.6249	0	50	109	50	130
n-Amyl acetate	1	45.2918	0	50	91	50	130
Bromoform	1	49.2969	0	50	99	20	130
Ethylbenzene	1	43.4017	0	50	87	50	130
1,1,2,2-Tetrachloroethane	1	54.6071	0	50	109	50	130
Styrene	1	57.8185	0	50	116	50	130
m&p-Xylenes	1	116.7672	0	100	117	50	130
o-Xylene	1	56.8175	0	50	114	50	130
trans-1,4-Dichloro-2-butene	1	52.9539	0	50	106	20	130
1,3-Dichlorobenzene	1	47.577	0	50	95	50	130
1,4-Dichlorobenzene	1	49.4519	0	50	99	50	130
1,2-Dichlorobenzene	1	44.4915	0	50	89	50	130
Isopropylbenzene	1	56.8834	0	50	114	50	130
Cyclohexanone	1	256.1842	0	250	102	50	130
Camphene	1	53.1378	0	50	106	50	130
1,2,3-Trichloropropane	1	53.3369	0	50	107	50	130
2-Chlorotoluene	1	60.5988	0	50	121	50	130
p-Ethyltoluene	1	61.7661	0	50	124	50	130
4-Chlorotoluene	1	59.3099	0	50	119	50	130
n-Propylbenzene	1	57.058	0	50	114	50	130
Bromobenzene	1	55.9119	0	50	112	50	130
1,3,5-Trimethylbenzene	1	54.3875	0	50	109	50	130
Butyl methacrylate	1	54.6632	0	50	109	50	130
t-Butylbenzene	1	51.8767	0	50	104	50	130
1,2,4-Trimethylbenzene	1	57.5823	0	50	115	50	130
sec-Butylbenzene	1	54.6564	0	50	109	50	130
4-Isopropyltoluene	1	55.3131	0	50	111	50	130
n-Butylbenzene	1	59.8755	0	50	120	50	130
p-Diethylbenzene	1	58.8776	0	50	118	50	130
1,2,4,5-Tetramethylbenzene	1	58.7292	0	50	117	50	130
1,2-Dibromo-3-Chloropropane	1	38.5935	0	50	77	50	130
Camphor	1	504.4067	0	500	101	50	130
Hexachlorobutadiene	1	44.6771	0	50	89	50	130
1,2,4-Trichlorobenzene	1	47.2928	0	50	95	50	130
1,2,3-Trichlorobenzene	1	47.7509	0	50	96	50	130
Naphthalene	1	48.5259	0	50	97	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61658

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M113652.D	MBS61658	7/13/2017 6:08:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	17.886	0	20	89	50	150
Dichlorodifluoromethane	1	17.386	0	20	87	50	150
Chloromethane	1	16.6815	0	20	83	50	150
Bromomethane	1	20.3276	0	20	102	50	150
Vinyl Chloride	1	17.9482	0	20	90	50	150
Chloroethane	1	21.9611	0	20	110	50	150
Trichlorofluoromethane	1	24.3649	0	20	122	50	150
Ethyl ether	1	17.1672	0	20	86	50	150
Furan	1	16.5505	0	20	83	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	21.1144	0	20	106	50	150
Methylene Chloride	1	18.9716	0	20	95	70	130
Acrolein	1	67.0324	0	100	67	50	150
Acrylonitrile	1	15.5085	0	20	78	50	150
Iodomethane	1	21.9988	0	20	110	50	150
Acetone	1	76.5001	0	100	77	50	150
Carbon Disulfide	1	20.2244	0	20	101	50	150
t-Butyl Alcohol	1	57.7124	0	100	58	50	150
n-Hexane	1	18.7689	0	20	94	70	130
Di-isopropyl-ether	1	16.1769	0	20	81	70	130
1,1-Dichloroethene	1	21.1924	0	20	106	70	130
Methyl Acetate	1	13.9935	0	20	70	50	150
Methyl-t-butyl ether	1	17.4618	0	20	87	70	130
1,1-Dichloroethane	1	19.1782	0	20	96	70	130
trans-1,2-Dichloroethene	1	21.4145	0	20	107	70	130
Ethyl-t-butyl ether	1	17.2992	0	20	86	70	130
cis-1,2-Dichloroethene	1	19.3263	0	20	97	70	130
Bromochloromethane	1	18.2748	0	20	91	70	130
2,2-Dichloropropane	1	23.6135	0	20	118	70	130
Ethyl acetate	1	22.1936	0	20	111	50	130
1,4-Dioxane	1	752.4668	0	1000	75	50	150
1,1-Dichloropropene	1	21.7854	0	20	109	70	130
Chloroform	1	20.2448	0	20	101	70	130
Cyclohexane	1	15.8818	0	20	79	70	130
1,2-Dichloroethane	1	21.3564	0	20	107	70	130
2-Butanone	1	11.8606	0	20	59	50	150
1,1,1-Trichloroethane	1	23.2095	0	20	116	70	130
Carbon Tetrachloride	1	24.4943	0	20	122	50	150
Vinyl Acetate	1	18.4902	0	20	92	50	150
Bromodichloromethane	1	20.5342	0	20	103	70	130
Methylcyclohexane	1	18.1199	0	20	91	70	130
Dibromomethane	1	21.3228	0	20	107	70	130
1,2-Dichloropropane	1	17.2491	0	20	86	70	130
Trichloroethene	1	20.4612	0	20	102	70	130
Benzene	1	19.2211	0	20	96	70	130
tert-Amyl methyl ether	1	17.7649	0	20	89	70	130
Iso-propylacetate	1	14.4377	0	20	72	70	130
Methyl methacrylate	1	14.9523	0	20	75	70	130
Dibromochloromethane	1	20.0996	0	20	100	70	130
2-Chloroethylvinylether	1	14.2857	0	20	71	70	130
cis-1,3-Dichloropropene	1	16.8658	0	20	84	70	130
trans-1,3-Dichloropropene	1	17.2497	0	20	86	70	130
Ethyl methacrylate	1	15.0903	0	20	75	70	130
1,1,2-Trichloroethane	1	17.0838	0	20	85	70	130
1,2-Dibromoethane	1	17.536	0	20	88	70	130
1,3-Dichloropropane	1	17.4403	0	20	87	70	130
4-Methyl-2-Pentanone	1	13.6287	0	20	68	50	150
2-Hexanone	1	13.4625	0	20	67	50	150
Tetrachloroethene	1	21.5514	0	20	108	50	130
Toluene	1	17.9908	0	20	90	70	130
1,1,1,2-Tetrachloroethane	1	20.4502	0	20	102	70	130
Chlorobenzene	1	17.2011	0	20	86	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61658

n-Butyl acrylate	1	13.2356	0	20	66*	70	130
n-Amyl acetate	1	12.6639	0	20	63*	70	130
Bromoform	1	16.3764	0	20	82	70	130
Ethylbenzene	1	19.1739	0	20	96	70	130
1,1,2,2-Tetrachloroethane	1	14.1052	0	20	71	70	130
Styrene	1	17.4303	0	20	87	70	130
m&p-Xylenes	1	34.1702	0	40	85	70	130
o-Xylene	1	17.6622	0	20	88	70	130
trans-1,4-Dichloro-2-butene	1	15.3952	0	20	77	50	150
1,3-Dichlorobenzene	1	17.1393	0	20	86	70	130
1,4-Dichlorobenzene	1	17.7285	0	20	89	70	130
1,2-Dichlorobenzene	1	16.7894	0	20	84	70	130
Isopropylbenzene	1	18.1673	0	20	91	70	130
Cyclohexanone	1	59.8683	0	100	60	50	150
Camphene	1	17.0142	0	20	85	70	130
1,2,3-Trichloropropane	1	14.6605	0	20	73	70	130
2-Chlorotoluene	1	19.3969	0	20	97	70	130
p-Ethyltoluene	1	19.0421	0	20	95	70	130
4-Chlorotoluene	1	18.1951	0	20	91	70	130
n-Propylbenzene	1	18.5223	0	20	93	70	130
Bromobenzene	1	15.7392	0	20	79	70	130
1,3,5-Trimethylbenzene	1	19.5148	0	20	98	70	130
Butyl methacrylate	1	16.2405	0	20	81	70	130
t-Butylbenzene	1	18.7082	0	20	94	70	130
1,2,4-Trimethylbenzene	1	17.4893	0	20	87	70	130
sec-Butylbenzene	1	18.0998	0	20	90	70	130
4-Isopropyltoluene	1	18.4423	0	20	92	70	130
n-Butylbenzene	1	18.9186	0	20	95	70	130
p-Diethylbenzene	1	17.6503	0	20	88	70	130
1,2,4,5-Tetramethylbenzene	1	18.0962	0	20	90	70	130
1,2-Dibromo-3-Chloropropane	1	13.1413	0	20	66	50	150
Camphor	1	136.1805	0	200	68	50	150
Hexachlorobutadiene	1	17.2005	0	20	86	50	150
1,2,4-Trichlorobenzene	1	19.8879	0	20	99	70	130
1,2,3-Trichlorobenzene	1	18.3785	0	20	92	70	130
Naphthalene	1	14.9903	0	20	75	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61660

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M113688.D	MBS61660	7/14/2017 3:59:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	20.2293	0	20	101	50	150
Dichlorodifluoromethane	1	17.3472	0	20	87	50	150
Chloromethane	1	16.7376	0	20	84	50	150
Bromomethane	1	21.3487	0	20	107	50	150
Vinyl Chloride	1	17.2808	0	20	86	50	150
Chloroethane	1	22.7182	0	20	114	50	150
Trichlorofluoromethane	1	24.579	0	20	123	50	150
Ethyl ether	1	17.0571	0	20	85	50	150
Furan	1	16.6663	0	20	83	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.0252	0	20	110	50	150
Methylene Chloride	1	19.8731	0	20	99	70	130
Acrolein	1	62.6804	0	100	63	50	150
Acrylonitrile	1	15.1727	0	20	76	50	150
Iodomethane	1	22.9269	0	20	115	50	150
Acetone	1	74.849	0	100	75	50	150
Carbon Disulfide	1	19.9309	0	20	100	50	150
t-Butyl Alcohol	1	64.3072	0	100	64	50	150
n-Hexane	1	17.0594	0	20	85	70	130
Di-isopropyl-ether	1	15.9449	0	20	80	70	130
1,1-Dichloroethene	1	20.3656	0	20	102	70	130
Methyl Acetate	1	14.7245	0	20	74	50	150
Methyl-t-butyl ether	1	17.6686	0	20	88	70	130
1,1-Dichloroethane	1	18.6918	0	20	93	70	130
trans-1,2-Dichloroethene	1	21.0978	0	20	105	70	130
Ethyl-t-butyl ether	1	16.6976	0	20	83	70	130
cis-1,2-Dichloroethene	1	18.876	0	20	94	70	130
Bromochloromethane	1	17.889	0	20	89	70	130
2,2-Dichloropropane	1	20.0017	0	20	100	70	130
Ethyl acetate	1	19.062	0	20	95	50	130
1,4-Dioxane	1	798.3683	0	1000	80	50	150
1,1-Dichloropropene	1	21.5177	0	20	108	70	130
Chloroform	1	21.0573	0	20	105	70	130
Cyclohexane	1	15.5941	0	20	78	70	130
1,2-Dichloroethane	1	21.1963	0	20	106	70	130
2-Butanone	1	11.6883	0	20	58	50	150
1,1,1-Trichloroethane	1	23.5779	0	20	118	70	130
Carbon Tetrachloride	1	25.659	0	20	128	50	150
Vinyl Acetate	1	17.2308	0	20	86	50	150
Bromodichloromethane	1	20.9347	0	20	105	70	130
Methylcyclohexane	1	17.6046	0	20	88	70	130
Dibromomethane	1	22.2278	0	20	111	70	130
1,2-Dichloropropane	1	16.2203	0	20	81	70	130
Trichloroethene	1	20.7998	0	20	104	70	130
Benzene	1	19.3831	0	20	97	70	130
tert-Amyl methyl ether	1	17.0725	0	20	85	70	130
Iso-propylacetate	1	14.3037	0	20	72	70	130
Methyl methacrylate	1	15.1572	0	20	76	70	130
Dibromochloromethane	1	20.5112	0	20	103	70	130
2-Chloroethylvinylether	1	14.1078	0	20	71	70	130
cis-1,3-Dichloropropene	1	16.1512	0	20	81	70	130
trans-1,3-Dichloropropene	1	16.9809	0	20	85	70	130
Ethyl methacrylate	1	14.744	0	20	74	70	130
1,1,2-Trichloroethane	1	17.1479	0	20	86	70	130
1,2-Dibromoethane	1	17.2668	0	20	86	70	130
1,3-Dichloropropane	1	17.2804	0	20	96	70	130
4-Methyl-2-Pentanone	1	13.3285	0	20	67	50	150
2-Hexanone	1	13.3697	0	20	67	50	150
Tetrachloroethene	1	21.7538	0	20	109	50	130
Toluene	1	17.5876	0	20	88	70	130
1,1,1,2-Tetrachloroethane	1	20.5743	0	20	103	70	130
Chlorobenzene	1	17.8594	0	20	89	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61660

n-Butyl acrylate	1	12.2022	0	20	61*	70	130
n-Amyl acetate	1	12.2024	0	20	61*	70	130
Bromoform	1	16.6187	0	20	83	70	130
Ethylbenzene	1	17.5889	0	20	88	70	130
1,1,2,2-Tetrachloroethane	1	13.3271	0	20	67*	70	130
Styrene	1	16.4591	0	20	82	70	130
m&p-Xylenes	1	31.5952	0	40	79	70	130
o-Xylene	1	16.922	0	20	85	70	130
trans-1,4-Dichloro-2-butene	1	14.2914	0	20	71	50	150
1,3-Dichlorobenzene	1	15.9834	0	20	80	70	130
1,4-Dichlorobenzene	1	16.3997	0	20	82	70	130
1,2-Dichlorobenzene	1	16.1521	0	20	81	70	130
Isopropylbenzene	1	16.2626	0	20	81	70	130
Cyclohexanone	1	58.6773	0	100	59	50	150
Camphene	1	13.8647	0	20	69*	70	130
1,2,3-Trichloropropane	1	13.7569	0	20	69*	70	130
2-Chlorotoluene	1	18.4114	0	20	92	70	130
p-Ethyltoluene	1	15.9473	0	20	80	70	130
4-Chlorotoluene	1	17.1372	0	20	86	70	130
n-Propylbenzene	1	16.4005	0	20	82	70	130
Bromobenzene	1	16.0532	0	20	80	70	130
1,3,5-Trimethylbenzene	1	18.5502	0	20	93	70	130
Butyl methacrylate	1	14.3106	0	20	72	70	130
t-Butylbenzene	1	16.4925	0	20	82	70	130
1,2,4-Trimethylbenzene	1	15.9409	0	20	80	70	130
sec-Butylbenzene	1	16.0119	0	20	80	70	130
4-Isopropyltoluene	1	15.9123	0	20	80	70	130
n-Butylbenzene	1	16.156	0	20	81	70	130
p-Diethylbenzene	1	15.2582	0	20	76	70	130
1,2,4,5-Tetramethylbenzene	1	14.4596	0	20	72	70	130
1,2-Dibromo-3-Chloropropane	1	13.2985	0	20	66	50	150
Camphor	1	137.5499	0	200	69	50	150
Hexachlorobutadiene	1	15.9999	0	20	80	50	150
1,2,4-Trichlorobenzene	1	17.6316	0	20	88	70	130
1,2,3-Trichlorobenzene	1	15.7448	0	20	79	70	130
Naphthalene	1	14.1241	0	20	71	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61665

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M113706.D	MBS61665	7/14/2017 8:48:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	20.2092	0	20	101	50	150
Dichlorodifluoromethane	1	18.6695	0	20	93	50	150
Chloromethane	1	19.7846	0	20	99	50	150
Bromomethane	1	21.0192	0	20	105	50	150
Vinyl Chloride	1	19.1757	0	20	96	50	150
Chloroethane	1	23.5764	0	20	118	50	150
Trichlorofluoromethane	1	24.2963	0	20	121	50	150
Ethyl ether	1	18.9342	0	20	95	50	150
Furan	1	21.4804	0	20	107	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.8224	0	20	119	50	150
Methylene Chloride	1	21.7575	0	20	109	70	130
Acrolein	1	74.9355	0	100	75	50	150
Acrylonitrile	1	18.6925	0	20	93	50	150
Iodomethane	1	24.8227	0	20	124	50	150
Acetone	1	112.1221	0	100	112	50	150
Carbon Disulfide	1	20.8144	0	20	104	50	150
t-Butyl Alcohol	1	78.6372	0	100	79	50	150
n-Hexane	1	22.6253	0	20	113	70	130
Di-isopropyl-ether	1	20.0443	0	20	100	70	130
1,1-Dichloroethene	1	23.283	0	20	116	70	130
Methyl Acetate	1	16.8155	0	20	84	50	150
Methyl-t-butyl ether	1	21.0998	0	20	105	70	130
1,1-Dichloroethane	1	21.2592	0	20	106	70	130
trans-1,2-Dichloroethene	1	23.6179	0	20	118	70	130
Ethyl-t-butyl ether	1	20.288	0	20	101	70	130
cis-1,2-Dichloroethene	1	22.0922	0	20	110	70	130
Bromochloromethane	1	19.6893	0	20	98	70	130
2,2-Dichloropropane	1	28.122	0	20	141*	70	130
Ethyl acetate	1	29.4846	0	20	147*	50	130
1,4-Dioxane	1	910.2075	0	1000	91	50	150
1,1-Dichloropropene	1	24.5578	0	20	123	70	130
Chloroform	1	22.7203	0	20	114	70	130
Cyclohexane	1	19.6935	0	20	98	70	130
1,2-Dichloroethane	1	22.8714	0	20	114	70	130
2-Butanone	1	14.3023	0	20	72	50	150
1,1,1-Trichloroethane	1	24.464	0	20	122	70	130
Carbon Tetrachloride	1	24.9889	0	20	125	50	150
Vinyl Acetate	1	21.1883	0	20	106	50	150
Bromodichloromethane	1	21.1395	0	20	106	70	130
Methylcyclohexane	1	20.3972	0	20	102	70	130
Dibromomethane	1	23.259	0	20	116	70	130
1,2-Dichloropropane	1	20.3658	0	20	102	70	130
Trichloroethene	1	23.3392	0	20	117	70	130
Benzene	1	21.7218	0	20	109	70	130
tert-Amyl methyl ether	1	21.1604	0	20	106	70	130
Iso-propylacetate	1	17.8833	0	20	89	70	130
Methyl methacrylate	1	18.5145	0	20	93	70	130
Dibromochloromethane	1	21.6065	0	20	108	70	130
2-Chloroethylvinylether	1	18.8058	0	20	94	70	130
cis-1,3-Dichloropropene	1	19.0379	0	20	95	70	130
trans-1,3-Dichloropropene	1	19.9946	0	20	100	70	130
Ethyl methacrylate	1	19.2373	0	20	96	70	130
1,1,2-Trichloroethane	1	18.7922	0	20	94	70	130
1,2-Dibromoethane	1	19.729	0	20	99	70	130
1,3-Dichloropropane	1	19.6732	0	20	98	70	130
4-Methyl-2-Pentanone	1	16.7368	0	20	84	50	150
2-Hexanone	1	18.8531	0	20	94	50	150
Tetrachloroethene	1	21.3217	0	20	109	50	130
Toluene	1	20.1091	0	20	101	70	130
1,1,1,2-Tetrachloroethane	1	23.2276	0	20	116	70	130
Chlorobenzene	1	19.8168	0	20	99	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61665

n-Butyl acrylate	1	16.6016	0	20	83	70	130
n-Amyl acetate	1	16.5216	0	20	83	70	130
Bromoform	1	16.8655	0	20	84	70	130
Ethylbenzene	1	18.9993	0	20	95	70	130
1,1,2,2-Tetrachloroethane	1	15.9853	0	20	80	70	130
Styrene	1	19.565	0	20	98	70	130
m&p-Xylenes	1	36.8205	0	40	92	70	130
o-Xylene	1	19.986	0	20	100	70	130
trans-1,4-Dichloro-2-butene	1	17.6975	0	20	88	50	150
1,3-Dichlorobenzene	1	17.9292	0	20	90	70	130
1,4-Dichlorobenzene	1	17.5206	0	20	88	70	130
1,2-Dichlorobenzene	1	17.592	0	20	88	70	130
Isopropylbenzene	1	18.7346	0	20	94	70	130
Cyclohexanone	1	196.0683	0	100	196*	50	150
Camphene	1	17.07	0	20	85	70	130
1,2,3-Trichloropropane	1	17.0545	0	20	85	70	130
2-Chlorotoluene	1	20.0106	0	20	100	70	130
p-Ethyltoluene	1	19.5236	0	20	98	70	130
4-Chlorotoluene	1	19.0059	0	20	95	70	130
n-Propylbenzene	1	18.8972	0	20	94	70	130
Bromobenzene	1	18.5543	0	20	93	70	130
1,3,5-Trimethylbenzene	1	21.1538	0	20	106	70	130
Butyl methacrylate	1	18.4116	0	20	92	70	130
t-Butylbenzene	1	18.8591	0	20	94	70	130
1,2,4-Trimethylbenzene	1	19.5843	0	20	98	70	130
sec-Butylbenzene	1	20.6134	0	20	103	70	130
4-Isopropyltoluene	1	18.7454	0	20	94	70	130
n-Butylbenzene	1	19.6786	0	20	98	70	130
p-Diethylbenzene	1	23.4549	0	20	117	70	130
1,2,4,5-Tetramethylbenzene	1	14.2433	0	20	71	70	130
1,2-Dibromo-3-Chloropropane	1	14.5862	0	20	73	50	150
Camphor	1	160.4979	0	200	80	50	150
Hexachlorobutadiene	1	14.6028	0	20	73	50	150
1,2,4-Trichlorobenzene	1	16.5319	0	20	83	70	130
1,2,3-Trichlorobenzene	1	14.6547	0	20	73	70	130
Naphthalene	1	15.9605	0	20	80	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61650

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M113596.D	AC98906-001(MS)	7/13/2017 2:09:00 AM
Non Spike(If applicable): 3M113544.D	AC98906-001	7/12/2017 11:25:00 AM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.2672	0	20	96	50	150
Dichlorodifluoromethane	1	9.6471	0	20	48*	50	150
Chloromethane	1	13.1722	0	20	66	50	150
Bromomethane	1	19.4541	0	20	97	50	150
Vinyl Chloride	1	14.6014	0	20	73	50	150
Chloroethane	1	19.4733	0	20	97	50	150
Trichlorofluoromethane	1	22.8332	0	20	114	50	150
Ethyl ether	1	16.634	0	20	83	50	150
Furan	1	17.0874	0	20	85	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.2268	0	20	101	50	150
Methylene Chloride	1	19.6841	0	20	98	70	130
Acrolein	1	65.3094	0	100	65	50	150
Acrylonitrile	1	15.8299	0	20	79	50	150
Iodomethane	1	22.0511	0	20	110	50	150
Acetone	1	84.1011	0	100	84	50	150
Carbon Disulfide	1	19.3299	0	20	97	50	150
t-Butyl Alcohol	1	70.1947	0	100	70	50	150
n-Hexane	1	15.1279	0	20	76	70	130
Di-isopropyl-ether	1	16.2599	0	20	81	70	130
1,1-Dichloroethene	1	21.3652	0	20	107	70	130
Methyl Acetate	1	13.3483	0	20	67	50	150
Methyl-t-butyl ether	1	18.0524	0	20	90	70	130
1,1-Dichloroethane	1	19.7289	0	20	99	70	130
trans-1,2-Dichloroethene	1	21.5297	0	20	108	70	130
Ethyl-t-butyl ether	1	16.8719	0	20	84	70	130
cis-1,2-Dichloroethene	1	19.8548	0	20	99	70	130
Bromochloromethane	1	18.1364	0	20	91	70	130
2,2-Dichloropropane	1	20.6976	0	20	103	70	130
Ethyl acetate	1	19.723	0	20	99	50	130
1,4-Dioxane	1	852.1089	0	1000	85	50	150
1,1-Dichloropropene	1	22.0979	0	20	110	70	130
Chloroform	1	22.1431	0	20	111	70	130
Cyclohexane	1	15.8338	0	20	79	70	130
1,2-Dichloroethane	1	23.3149	0	20	117	70	130
2-Butanone	1	15.2211	0	20	76	50	150
1,1,1-Trichloroethane	1	24.1329	0	20	121	70	130
Carbon Tetrachloride	1	26.5419	0	20	133	50	150
Vinyl Acetate	1	18.8031	0	20	94	50	150
Bromodichloromethane	1	22.7133	0	20	114	70	130
Methylcyclohexane	1	16.8946	0	20	84	70	130
Dibromomethane	1	23.6411	0	20	118	70	130
1,2-Dichloropropane	1	17.1402	0	20	86	70	130
Trichloroethene	1	21.4444	0	20	107	70	130
Benzene	1	20.0353	0	20	100	70	130
tert-Amyl methyl ether	1	17.294	0	20	86	70	130
Iso-propylacetate	1	14.7021	0	20	74	70	130
Methyl methacrylate	1	17.3363	0	20	87	70	130
Dibromochloromethane	1	23.1123	0	20	116	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	17.5222	0	20	88	70	130
trans-1,3-Dichloropropene	1	17.9566	0	20	90	70	130
Ethyl methacrylate	1	16.4183	0	20	82	70	130
1,1,2-Trichloroethane	1	18.3291	0	20	92	70	130
1,2-Dibromoethane	1	19.1681	0	20	96	70	130
1,3-Dichloropropane	1	19.0679	0	20	95	70	130
4-Methyl-2-Pentanone	1	14.8848	0	20	74	50	150
2-Hexanone	1	14.5453	0	20	73	50	150
Tetrachloroethene	1	22.3579	0	20	112	50	130
Toluene	1	18.2938	0	20	91	70	130
1,1,1,2-Tetrachloroethane	1	23.5256	0	20	118	70	130
Chlorobenzene	1	18.94	0	20	95	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61650

n-Butyl acrylate	1	13.8375	0	20	69*	70	130
n-Amyl acetate	1	12.8826	0	20	64*	70	130
Bromoform	1	17.8593	0	20	89	70	130
Ethylbenzene	1	18.4193	0	20	92	70	130
1,1,2,2-Tetrachloroethane	1	15.1057	0	20	76	70	130
Styrene	1	17.8268	0	20	89	70	130
m&p-Xylenes	1	33.5385	0	40	84	70	130
o-Xylene	1	17.5477	0	20	88	70	130
trans-1,4-Dichloro-2-butene	1	14.1169	0	20	71	50	150
1,3-Dichlorobenzene	1	17.7253	0	20	89	70	130
1,4-Dichlorobenzene	1	17.8634	0	20	89	70	130
1,2-Dichlorobenzene	1	17.5196	0	20	88	70	130
Isopropylbenzene	1	18.0112	0	20	90	70	130
Cyclohexanone	1	65.6584	0	100	66	50	150
Camphene	1	3.2913	0	20	16*	70	130
1,2,3-Trichloropropane	1	15.2819	0	20	76	70	130
2-Chlorotoluene	1	19.711	0	20	99	70	130
p-Ethyltoluene	1	17.5935	0	20	88	70	130
4-Chlorotoluene	1	17.5997	0	20	88	70	130
n-Propylbenzene	1	18.1385	0	20	91	70	130
Bromobenzene	1	16.5781	0	20	83	70	130
1,3,5-Trimethylbenzene	1	20.7369	0	20	104	70	130
Butyl methacrylate	1	16.2274	0	20	81	70	130
t-Butylbenzene	1	18.1638	0	20	91	70	130
1,2,4-Trimethylbenzene	1	17.7674	0	20	89	70	130
sec-Butylbenzene	1	17.55	0	20	88	70	130
4-Isopropyltoluene	1	17.5059	0	20	88	70	130
n-Butylbenzene	1	17.2708	0	20	86	70	130
p-Diethylbenzene	1	16.2748	0	20	81	70	130
1,2,4,5-Tetramethylbenzene	1	15.8075	0	20	79	70	130
1,2-Dibromo-3-Chloropropane	1	13.9906	0	20	70	50	150
Camphor	1	139.4491	0	200	70	50	150
Hexachlorobutadiene	1	14.9455	0	20	75	50	150
1,2,4-Trichlorobenzene	1	17.8216	0	20	89	70	130
1,2,3-Trichlorobenzene	1	15.6298	0	20	78	70	130
Naphthalene	1	14.333	0	20	72	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61650

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M113597.D	AC98906-001(MSD)	7/13/2017 2:26:00 AM
Non Spike(If applicable): 3M113544.D	AC98906-001	7/12/2017 11:25:00 AM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	18.5212	0	20	93	50	150
Dichlorodifluoromethane	1	8.6973	0	20	43*	50	150
Chloromethane	1	12.0358	0	20	60	50	150
Bromomethane	1	16.8946	0	20	84	50	150
Vinyl Chloride	1	13.9499	0	20	70	50	150
Chloroethane	1	19.053	0	20	95	50	150
Trichlorofluoromethane	1	20.6591	0	20	103	50	150
Ethyl ether	1	15.828	0	20	79	50	150
Furan	1	15.6007	0	20	78	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	18.6602	0	20	93	50	150
Methylene Chloride	1	18.1545	0	20	91	70	130
Acrolein	1	59.5733	0	100	60	50	150
Acrylonitrile	1	15.5329	0	20	78	50	150
Iodomethane	1	20.6606	0	20	103	50	150
Acetone	1	80.2451	0	100	80	50	150
Carbon Disulfide	1	18.3478	0	20	92	50	150
t-Butyl Alcohol	1	66.2308	0	100	66	50	150
n-Hexane	1	13.9087	0	20	70	70	130
Di-isopropyl-ether	1	15.5824	0	20	78	70	130
1,1-Dichloroethene	1	20.0537	0	20	100	70	130
Methyl Acetate	1	12.6287	0	20	63	50	150
Methyl-t-butyl ether	1	17.5628	0	20	88	70	130
1,1-Dichloroethane	1	18.1296	0	20	91	70	130
trans-1,2-Dichloroethene	1	19.9349	0	20	100	70	130
Ethyl-t-butyl ether	1	16.2873	0	20	81	70	130
cis-1,2-Dichloroethene	1	18.3857	0	20	92	70	130
Bromochloromethane	1	17.4777	0	20	87	70	130
2,2-Dichloropropane	1	18.7381	0	20	94	70	130
Ethyl acetate	1	19.3685	0	20	97	50	130
1,4-Dioxane	1	769.8895	0	1000	77	50	150
1,1-Dichloropropene	1	20.8843	0	20	104	70	130
Chloroform	1	20.0791	0	20	100	70	130
Cyclohexane	1	14.6833	0	20	73	70	130
1,2-Dichloroethane	1	21.0531	0	20	105	70	130
2-Butanone	1	15.1438	0	20	76	50	150
1,1,1-Trichloroethane	1	21.957	0	20	110	70	130
Carbon Tetrachloride	1	24.6712	0	20	123	50	150
Vinyl Acetate	1	17.3264	0	20	87	50	150
Bromodichloromethane	1	20.4529	0	20	102	70	130
Methylcyclohexane	1	15.479	0	20	77	70	130
Dibromomethane	1	21.623	0	20	108	70	130
1,2-Dichloropropane	1	16.4632	0	20	82	70	130
Trichloroethene	1	19.6735	0	20	98	70	130
Benzene	1	18.5485	0	20	93	70	130
tert-Amyl methyl ether	1	16.7748	0	20	84	70	130
Iso-propylacetate	1	14.7125	0	20	74	70	130
Methyl methacrylate	1	14.821	0	20	74	70	130
Dibromochloromethane	1	21.5593	0	20	108	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	16.3136	0	20	82	70	130
trans-1,3-Dichloropropene	1	16.9403	0	20	85	70	130
Ethyl methacrylate	1	15.698	0	20	78	70	130
1,1,2-Trichloroethane	1	17.5326	0	20	88	70	130
1,2-Dibromoethane	1	18.2738	0	20	91	70	130
1,3-Dichloropropane	1	18.1322	0	20	91	70	130
4-Methyl-2-Pentanone	1	14.2834	0	20	71	50	150
2-Hexanone	1	14.3977	0	20	72	50	150
Tetrachloroethene	1	21.4561	0	20	107	50	130
Toluene	1	17.5944	0	20	88	70	130
1,1,1,2-Tetrachloroethane	1	22.1475	0	20	111	70	130
Chlorobenzene	1	17.8714	0	20	89	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61650

n-Butyl acrylate	1	13.9114	0	20	70	70	130
n-Amyl acetate	1	12.0714	0	20	60*	70	130
Bromoform	1	18.4442	0	20	92	70	130
Ethylbenzene	1	18.5776	0	20	93	70	130
1,1,2,2-Tetrachloroethane	1	15.2562	0	20	76	70	130
Styrene	1	17.3538	0	20	87	70	130
m&p-Xylenes	1	34.0854	0	40	85	70	130
o-Xylene	1	18.4049	0	20	92	70	130
trans-1,4-Dichloro-2-butene	1	13.3282	0	20	67	50	150
1,3-Dichlorobenzene	1	17.7096	0	20	89	70	130
1,4-Dichlorobenzene	1	18.3988	0	20	92	70	130
1,2-Dichlorobenzene	1	17.9666	0	20	90	70	130
Isopropylbenzene	1	18.1643	0	20	91	70	130
Cyclohexanone	1	64.791	0	100	65	50	150
Camphene	1	3.1779	0	20	16*	70	130
1,2,3-Trichloropropane	1	16.4385	0	20	82	70	130
2-Chlorotoluene	1	18.3044	0	20	92	70	130
p-Ethyltoluene	1	17.9596	0	20	90	70	130
4-Chlorotoluene	1	18.2172	0	20	91	70	130
n-Propylbenzene	1	18.4352	0	20	92	70	130
Bromobenzene	1	16.3738	0	20	82	70	130
1,3,5-Trimethylbenzene	1	20.9758	0	20	105	70	130
Butyl methacrylate	1	16.554	0	20	83	70	130
t-Butylbenzene	1	18.3334	0	20	92	70	130
1,2,4-Trimethylbenzene	1	18.2372	0	20	91	70	130
sec-Butylbenzene	1	17.9396	0	20	90	70	130
4-Isopropyltoluene	1	17.8909	0	20	89	70	130
n-Butylbenzene	1	17.9678	0	20	90	70	130
p-Diethylbenzene	1	16.8437	0	20	84	70	130
1,2,4,5-Tetramethylbenzene	1	15.792	0	20	79	70	130
1,2-Dibromo-3-Chloropropane	1	14.7946	0	20	74	50	150
Camphor	1	155.5224	0	200	78	50	150
Hexachlorobutadiene	1	16.4277	0	20	82	50	150
1,2,4-Trichlorobenzene	1	19.086	0	20	95	70	130
1,2,3-Trichlorobenzene	1	18.1849	0	20	91	70	130
Naphthalene	1	15.4106	0	20	77	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M56059.D	AC98871-007(MS)	7/13/2017 3:10:00 PM
Non Spike(If applicable):	6M55973.D	AC98871-007	7/12/2017 12:22:00 PM
Inst Blank(If applicable):			

Method: 8260C | Matrix: Soil | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	37.7137	0	50	75	20	130
Dichlorodifluoromethane	1	25.6553	0	50	51	20	130
Chloromethane	1	21.2578	0	50	43	20	130
Bromomethane	1	24.5763	0	50	49	20	130
Vinyl Chloride	1	23.9359	0	50	48	20	130
Chloroethane	1	28.7761	0	50	58	20	130
Trichlorofluoromethane	1	35.7797	0	50	72	20	130
Ethyl ether	1	34.0898	0	50	68	50	130
Furan	1	28.0477	0	50	56	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	34.9265	0	50	70	50	130
Methylene Chloride	1	115.4614	80.286	50	70	50	130
Acrolein	1	92.1034	0	200	46	20	130
Acrylonitrile	1	20.0966	0	50	40	20	130
Iodomethane	1	16.5991	0	50	33*	50	130
Acetone	1	410.4398	260.4413	200	75	20	130
Carbon Disulfide	1	16.6465	0	50	33*	50	130
t-Butyl Alcohol	1	184.3897	0	200	92	20	130
n-Hexane	1	20.4922	0	50	41*	50	130
Di-isopropyl-ether	1	36.9009	0	50	74	50	130
1,1-Dichloroethene	1	19.0329	0	50	38*	50	130
Methyl Acetate	1	30.6695	0	50	61	50	130
Methyl-t-butyl ether	1	41.0429	0	50	82	50	130
1,1-Dichloroethane	1	32.5085	0	50	65	50	130
trans-1,2-Dichloroethene	1	19.8883	0	50	40*	50	130
Ethyl-t-butyl ether	1	34.3565	0	50	69	50	130
cis-1,2-Dichloroethene	1	24.099	0	50	48*	50	130
Bromochloromethane	1	19.3866	0	50	39*	50	130
2,2-Dichloropropane	1	36.6975	0	50	73	50	130
Ethyl acetate	1	36.7096	0	50	73	50	130
1,4-Dioxane	1	2194.308	0	2500	88	50	130
1,1-Dichloropropene	1	23.5324	0	50	47*	50	130
Chloroform	1	29.096	0	50	58	50	130
Cyclohexane	1	29.1631	0	50	58	50	130
1,2-Dichloroethane	1	28.2202	0	50	56	50	130
2-Butanone	1	33.0933	0	50	66	20	130
1,1,1-Trichloroethane	1	34.3732	0	50	69	50	130
Carbon Tetrachloride	1	30.7526	0	50	62	50	130
Vinyl Acetate	1	37.8386	0	50	76	50	130
Bromodichloromethane	1	24.9786	0	50	50	50	130
Methylcyclohexane	1	25.4175	0	50	51	50	130
Dibromomethane	1	24.0974	0	50	48*	50	130
1,2-Dichloropropane	1	30.1009	0	50	60	50	130
Trichloroethene	1	16.8695	0	50	34*	50	130
Benzene	1	30.0942	0	50	60	50	130
tert-Amyl methyl ether	1	38.1925	0	50	76	50	130
Iso-propylacetate	1	38.1049	0	50	76	50	130
Methyl methacrylate	1	29.5159	0	50	59	50	130
Dibromochloromethane	1	25.2484	0	50	50	50	130
2-Chloroethylvinylether	1	27.0304	0	50	54	50	130
cis-1,3-Dichloropropene	1	20.914	0	50	42*	50	130
trans-1,3-Dichloropropene	1	14.6021	0	50	29*	50	130
Ethyl methacrylate	1	31.7176	0	50	63	50	130
1,1,2-Trichloroethane	1	42.4087	0	50	85	50	130
1,2-Dibromoethane	1	22.547	0	50	45*	50	130
1,3-Dichloropropane	1	31.0134	0	50	62	50	130
4-Methyl-2-Pentanone	1	39.1196	0	50	78	20	130
2-Hexanone	1	28.6263	0	50	57	20	130
Tetrachloroethene	1	21.3537	0	50	43*	50	130
Toluene	1	25.6836	0	50	51	50	130
1,1,1,2-Tetrachloroethane	1	31.012	0	50	62	50	130
Chlorobenzene	1	16.5898	0	50	33*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61654

n-Butyl acrylate	1	18.689	0	50	37*	50	130
n-Amyl acetate	1	21.4219	0	50	43*	50	130
Bromoform	1	20.551	0	50	41	20	130
Ethylbenzene	1	14.8277	0	50	30*	50	130
1,1,2,2-Tetrachloroethane	1	28.6734	0	50	57	50	130
Styrene	1	12.3543	0	50	25*	50	130
m&p-Xylenes	1	39.5759	0	100	40*	50	130
o-Xylene	1	19.9042	0	50	40*	50	130
trans-1,4-Dichloro-2-butene	1	24.9809	0	50	50	20	130
1,3-Dichlorobenzene	1	6.4687	0	50	13*	50	130
1,4-Dichlorobenzene	1	5.3063	0	50	11*	50	130
1,2-Dichlorobenzene	1	8.7787	0	50	18*	50	130
Isopropylbenzene	1	24.531	0	50	49*	50	130
Cyclohexanone	1	179.8447	0	250	72	50	130
Camphene	1	25.9928	0	50	52	50	130
1,2,3-Trichloropropane	1	25.403	0	50	51	50	130
2-Chlorotoluene	1	18.115	0	50	36*	50	130
p-Ethyltoluene	1	16.39	0	50	33*	50	130
4-Chlorotoluene	1	11.1547	0	50	22*	50	130
n-Propylbenzene	1	18.4757	0	50	37*	50	130
Bromobenzene	1	15.9711	0	50	32*	50	130
1,3,5-Trimethylbenzene	1	20.8705	0	50	42*	50	130
Butyl methacrylate	1	19.4316	0	50	39*	50	130
t-Butylbenzene	1	22.2156	0	50	44*	50	130
1,2,4-Trimethylbenzene	1	16.2727	0	50	33*	50	130
sec-Butylbenzene	1	17.6462	0	50	35*	50	130
4-Isopropyltoluene	1	24.5783	0	50	49*	50	130
n-Butylbenzene	1	12.6429	0	50	25*	50	130
p-Diethylbenzene	1	11.8235	0	50	24*	50	130
1,2,4,5-Tetramethylbenzene	1	8.7553	0	50	18*	50	130
1,2-Dibromo-3-Chloropropane	1	24.1328	0	50	48*	50	130
Camphor	1	198.2097	0	500	40*	50	130
Hexachlorobutadiene	1	8.2506	0	50	17*	50	130
1,2,4-Trichlorobenzene	1	0	0	50	0*	50	130
1,2,3-Trichlorobenzene	1	2.0075	0	50	4*	50	130
Naphthalene	1	2.4862	0	50	5*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M56060.D	AC98871-007(MSD)	7/13/2017 3:27:00 PM
Non Spike(If applicable):	6M55973.D	AC98871-007	7/12/2017 12:22:00 PM
Inst Blank(If applicable):			

Method: 8260C | Matrix: Soil | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	48.5039	0	50	97	20	130
Dichlorodifluoromethane	1	51.1362	0	50	102	20	130
Chloromethane	1	26.8658	0	50	54	20	130
Bromomethane	1	27.3627	0	50	55	20	130
Vinyl Chloride	1	23.3298	0	50	47	20	130
Chloroethane	1	32.5256	0	50	65	20	130
Trichlorofluoromethane	1	38.0272	0	50	76	20	130
Ethyl ether	1	34.3953	0	50	69	50	130
Furan	1	32.0479	0	50	64	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	35.7954	0	50	72	50	130
Methylene Chloride	1	116.3492	80.286	50	72	50	130
Acrolein	1	214.6273	0	200	107	20	130
Acrylonitrile	1	32.8464	0	50	66	20	130
Iodomethane	1	35.275	0	50	71	50	130
Acetone	1	392.2751	260.4413	200	66	20	130
Carbon Disulfide	1	17.9072	0	50	36*	50	130
t-Butyl Alcohol	1	226.5157	0	200	113	20	130
n-Hexane	1	21.2985	0	50	43*	50	130
Di-isopropyl-ether	1	36.8505	0	50	74	50	130
1,1-Dichloroethene	1	20.7052	0	50	41*	50	130
Methyl Acetate	1	29.4709	0	50	59	50	130
Methyl-t-butyl ether	1	44.5419	0	50	89	50	130
1,1-Dichloroethane	1	35.4262	0	50	71	50	130
trans-1,2-Dichloroethene	1	18.1478	0	50	36*	50	130
Ethyl-t-butyl ether	1	39.8166	0	50	80	50	130
cis-1,2-Dichloroethene	1	27.581	0	50	55	50	130
Bromochloromethane	1	14.0126	0	50	28*	50	130
2,2-Dichloropropane	1	38.6336	0	50	77	50	130
Ethyl acetate	1	27.5075	0	50	55	50	130
1,4-Dioxane	1	2425.871	0	2500	97	50	130
1,1-Dichloropropene	1	26.7003	0	50	53	50	130
Chloroform	1	33.4298	0	50	67	50	130
Cyclohexane	1	33.2351	0	50	66	50	130
1,2-Dichloroethane	1	29.4246	0	50	59	50	130
2-Butanone	1	36.7667	0	50	74	20	130
1,1,1-Trichloroethane	1	36.7961	0	50	74	50	130
Carbon Tetrachloride	1	34.0623	0	50	68	50	130
Vinyl Acetate	1	39.6213	0	50	79	50	130
Bromodichloromethane	1	27.3993	0	50	55	50	130
Methylcyclohexane	1	28.9225	0	50	58	50	130
Dibromomethane	1	22.77	0	50	46*	50	130
1,2-Dichloropropane	1	35.4901	0	50	71	50	130
Trichloroethene	1	18.4622	0	50	37*	50	130
Benzene	1	33.6714	0	50	67	50	130
tert-Amyl methyl ether	1	39.1609	0	50	78	50	130
Iso-propylacetate	1	36.6947	0	50	73	50	130
Methyl methacrylate	1	31.659	0	50	63	50	130
Dibromochloromethane	1	28.4184	0	50	57	50	130
2-Chloroethylvinylether	1	28.2249	0	50	56	50	130
cis-1,3-Dichloropropene	1	22.5475	0	50	45*	50	130
trans-1,3-Dichloropropene	1	14.6276	0	50	29*	50	130
Ethyl methacrylate	1	40.1863	0	50	80	50	130
1,1,2-Trichloroethane	1	47.3111	0	50	95	50	130
1,2-Dibromoethane	1	20.8929	0	50	42*	50	130
1,3-Dichloropropane	1	33.6414	0	50	67	50	130
4-Methyl-2-Pentanone	1	44.8975	0	50	90	20	130
2-Hexanone	1	84.8177	0	50	170*	20	130
Tetrachloroethene	1	21.7986	0	50	44*	50	130
Toluene	1	28.117	0	50	56	50	130
1,1,1,2-Tetrachloroethane	1	34.5562	0	50	69	50	130
Chlorobenzene	1	19.3895	0	50	39*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61654

n-Butyl acrylate	1	31.834	0	50	64	50	130
n-Amyl acetate	1	28.9434	0	50	58	50	130
Bromoform	1	26.3334	0	50	53	20	130
Ethylbenzene	1	18.8729	0	50	38*	50	130
1,1,2,2-Tetrachloroethane	1	41.5424	0	50	83	50	130
Styrene	1	17.9227	0	50	36*	50	130
m&p-Xylenes	1	52.6297	0	100	53	50	130
o-Xylene	1	27.9587	0	50	56	50	130
trans-1,4-Dichloro-2-butene	1	34.2682	0	50	69	20	130
1,3-Dichlorobenzene	1	8.9346	0	50	18*	50	130
1,4-Dichlorobenzene	1	7.0667	0	50	14*	50	130
1,2-Dichlorobenzene	1	10.1067	0	50	20*	50	130
Isopropylbenzene	1	32.0098	0	50	64	50	130
Cyclohexanone	1	281.7898	0	250	113	50	130
Camphene	1	32.9358	0	50	66	50	130
1,2,3-Trichloropropane	1	30.1512	0	50	60	50	130
2-Chlorotoluene	1	22.9096	0	50	46*	50	130
p-Ethyltoluene	1	21.654	0	50	43*	50	130
4-Chlorotoluene	1	13.5798	0	50	27*	50	130
n-Propylbenzene	1	23.551	0	50	47*	50	130
Bromobenzene	1	17.373	0	50	35*	50	130
1,3,5-Trimethylbenzene	1	26.987	0	50	54	50	130
Butyl methacrylate	1	28.8705	0	50	58	50	130
t-Butylbenzene	1	30.3518	0	50	61	50	130
1,2,4-Trimethylbenzene	1	21.8454	0	50	44*	50	130
sec-Butylbenzene	1	24.3135	0	50	49*	50	130
4-Isopropyltoluene	1	38.7951	0	50	78	50	130
n-Butylbenzene	1	16.2432	0	50	32*	50	130
p-Diethylbenzene	1	17.3007	0	50	35*	50	130
1,2,4,5-Tetramethylbenzene	1	13.8004	0	50	28*	50	130
1,2-Dibromo-3-Chloropropane	1	29.5665	0	50	59	50	130
Camphor	1	361.8519	0	500	72	50	130
Hexachlorobutadiene	1	11.1013	0	50	22*	50	130
1,2,4-Trichlorobenzene	1	3.3439	0	50	6.7*	50	130
1,2,3-Trichlorobenzene	1	4.412	0	50	8.8*	50	130
Naphthalene	1	4.8801	0	50	9.8*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS61654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M56060.D	AC98871-007(MSD)	7/13/2017 3:27:00 PM
Duplicate(If applicable):	6M56059.D	AC98871-007(MS)	7/13/2017 3:10:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	48.5039	37.7137	25	30
Dichlorodifluoromethane	1	51.1362	25.6553	66*	30
Chloromethane	1	26.8658	21.2578	23	30
Bromomethane	1	27.3627	24.5763	11	30
Vinyl Chloride	1	23.3298	23.9359	2.6	40
Chloroethane	1	32.5256	28.7761	12	30
Trichlorofluoromethane	1	38.0272	35.7797	6.1	30
Ethyl ether	1	34.3953	34.0898	0.89	30
Furan	1	32.0479	28.0477	13	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	35.7954	34.9265	2.5	30
Methylene Chloride	1	116.3492	115.4614	0.77	30
Acrolein	1	214.6273	92.1034	80*	30
Acrylonitrile	1	32.8464	20.0966	48*	30
Iodomethane	1	35.275	16.5991	72*	30
Acetone	1	392.2751	410.4398	4.5	30
Carbon Disulfide	1	17.9072	16.6465	7.3	30
t-Butyl Alcohol	1	226.5157	184.3897	21	30
n-Hexane	1	21.2985	20.4922	3.9	30
Di-isopropyl-ether	1	36.8505	36.9009	0.14	30
1,1-Dichloroethene	1	20.7052	19.0329	8.4	40
Methyl Acetate	1	29.4709	30.6695	4	30
Methyl-t-butyl ether	1	44.5419	41.0429	8.2	30
1,1-Dichloroethane	1	35.4262	32.5085	8.6	40
trans-1,2-Dichloroethene	1	18.1478	19.8883	9.2	30
Ethyl-t-butyl ether	1	39.8166	34.3565	15	30
cis-1,2-Dichloroethene	1	27.581	24.099	13	30
Bromochloromethane	1	14.0126	19.3866	32*	30
2,2-Dichloropropane	1	38.6336	36.6975	5.1	30
Ethyl acetate	1	27.5075	36.7096	29	30
1,4-Dioxane	1	2425.871	2194.308	10	30
1,1-Dichloropropene	1	26.7003	23.5324	13	30
Chloroform	1	33.4298	29.096	14	40
Cyclohexane	1	33.2351	29.1631	13	30
1,2-Dichloroethane	1	29.4246	28.2202	4.2	40
2-Butanone	1	36.7667	33.0933	11	40
1,1,1-Trichloroethane	1	36.7961	34.3732	6.8	30
Carbon Tetrachloride	1	34.0623	30.7526	10	40
Vinyl Acetate	1	39.6213	37.8386	4.6	30
Bromodichloromethane	1	27.3993	24.9786	9.2	30
Methylcyclohexane	1	28.9225	25.4175	13	30
Dibromomethane	1	22.77	24.0974	5.7	30
1,2-Dichloropropane	1	35.4901	30.1009	16	30
Trichloroethene	1	18.4622	16.8695	9	40
Benzene	1	33.6714	30.0942	11	40
tert-Amyl methyl ether	1	39.1609	38.1925	2.5	30
Iso-propylacetate	1	36.6947	38.1049	3.8	30
Methyl methacrylate	1	31.659	29.5159	7	30
Dibromochloromethane	1	28.4184	25.2484	12	30
2-Chloroethylvinylether	1	28.2249	27.0304	4.3	30
cis-1,3-Dichloropropene	1	22.5475	20.914	7.5	30
trans-1,3-Dichloropropene	1	14.6276	14.6021	0.17	30
Ethyl methacrylate	1	40.1863	31.7176	24	30
1,1,2-Trichloroethane	1	47.3111	42.4087	11	30
1,2-Dibromoethane	1	20.8929	22.547	7.6	30
1,3-Dichloropropane	1	33.6414	31.0134	8.1	30
4-Methyl-2-Pentanone	1	44.8975	39.1196	14	30
2-Hexanone	1	84.8177	28.6263	99*	30
Tetrachloroethene	1	21.7986	21.3537	2.1	40
Toluene	1	28.117	25.6836	9	40
1,1,1,2-Tetrachloroethane	1	34.5562	31.012	11	30
Chlorobenzene	1	19.3895	16.5898	16	40
n-Butyl acrylate	1	31.834	18.689	52*	30
n-Amyl acetate	1	28.9434	21.4219	30	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS61654

Bromoform	1	26.3334	20.551	25	30
Ethylbenzene	1	18.8729	14.8277	24	30
1,1,2,2-Tetrachloroethane	1	41.5424	28.6734	37*	30
Styrene	1	17.9227	12.3543	37*	30
m&p-Xylenes	1	52.6297	39.5759	28	30
o-Xylene	1	27.9587	19.9042	34*	30
trans-1,4-Dichloro-2-butene	1	34.2682	24.9809	31*	30
1,3-Dichlorobenzene	1	8.9346	6.4687	32*	30
1,4-Dichlorobenzene	1	7.0667	5.3063	28	40
1,2-Dichlorobenzene	1	10.1067	8.7787	14	40
Isopropylbenzene	1	32.0098	24.531	26	30
Cyclohexanone	1	281.7898	179.8447	44*	30
Camphene	1	32.9358	25.9928	24	30
1,2,3-Trichloropropane	1	30.1512	25.403	17	30
2-Chlorotoluene	1	22.9096	18.115	23	30
p-Ethyltoluene	1	21.654	16.39	28	30
4-Chlorotoluene	1	13.5798	11.1547	20	30
n-Propylbenzene	1	23.551	18.4757	24	40
Bromobenzene	1	17.373	15.9711	8.4	30
1,3,5-Trimethylbenzene	1	26.987	20.8705	26	30
Butyl methacrylate	1	28.8705	19.4316	39*	30
t-Butylbenzene	1	30.3518	22.2156	31*	30
1,2,4-Trimethylbenzene	1	21.8454	16.2727	29	30
sec-Butylbenzene	1	24.3135	17.6462	32	40
4-Isopropyltoluene	1	38.7951	24.5783	45*	30
n-Butylbenzene	1	16.2432	12.6429	25	30
p-Diethylbenzene	1	17.3007	11.8235	38*	30
1,2,4,5-Tetramethylbenzene	1	13.8004	8.7553	45*	30
1,2-Dibromo-3-Chloropropane	1	29.5665	24.1328	20	30
Camphor	1	361.8519	198.2097	58*	30
Hexachlorobutadiene	1	11.1013	8.2506	29	30
1,2,4-Trichlorobenzene	1	3.3439	0	200*	30
1,2,3-Trichlorobenzene	1	4.412	2.0075	75*	30
Naphthalene	1	4.8801	2.4862	65*	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61660

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M113686.D	AC98885-002(MS)	7/14/2017 3:26:00 AM
Non Spike(If applicable):	3M113644.D	AC98885-002	7/13/2017 3:56:00 PM
Inst Blank(If applicable):			

Method: 8260C | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.7287	0	20	99	50	150
Dichlorodifluoromethane	1	17.8004	0	20	89	50	150
Chloromethane	1	17.3705	0	20	87	50	150
Bromomethane	1	23.0261	0	20	115	50	150
Vinyl Chloride	1	18.2895	0	20	91	50	150
Chloroethane	1	25.8003	0	20	129	50	150
Trichlorofluoromethane	1	26.0205	0	20	130	50	150
Ethyl ether	1	18.3407	0	20	92	50	150
Furan	1	17.4469	0	20	87	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.1588	0	20	116	50	150
Methylene Chloride	1	20.0711	0	20	100	70	130
Acrolein	1	72.5552	0	100	73	50	150
Acrylonitrile	1	15.6513	0	20	78	50	150
Iodomethane	1	23.9351	0	20	120	50	150
Acetone	1	87.1312	0	100	87	50	150
Carbon Disulfide	1	21.0236	0	20	105	50	150
t-Butyl Alcohol	1	62.9284	0	100	63	50	150
n-Hexane	1	17.1616	0	20	86	70	130
Di-isopropyl-ether	1	16.0698	0	20	80	70	130
1,1-Dichloroethene	1	21.7598	0	20	109	70	130
Methyl Acetate	1	14.6725	0	20	73	50	150
Methyl-t-butyl ether	1	18.3959	0	20	92	70	130
1,1-Dichloroethane	1	19.9148	0	20	100	70	130
trans-1,2-Dichloroethene	1	22.1887	0	20	111	70	130
Ethyl-t-butyl ether	1	17.2617	0	20	86	70	130
cis-1,2-Dichloroethene	1	20.7767	1.4623	20	97	70	130
Bromochloromethane	1	18.7575	0	20	94	70	130
2,2-Dichloropropane	1	21.0817	0	20	105	70	130
Ethyl acetate	1	23.997	0	20	120	50	130
1,4-Dioxane	1	826.3154	0	1000	83	50	150
1,1-Dichloropropene	1	22.2145	0	20	111	70	130
Chloroform	1	22.3608	0	20	112	70	130
Cyclohexane	1	15.684	0	20	78	70	130
1,2-Dichloroethane	1	23.1318	0	20	116	70	130
2-Butanone	1	12.2278	0	20	61	50	150
1,1,1-Trichloroethane	1	24.2676	0	20	121	70	130
Carbon Tetrachloride	1	27.1068	0	20	136	50	150
Vinyl Acetate	1	19.9329	0	20	100	50	150
Bromodichloromethane	1	22.4629	0	20	112	70	130
Methylcyclohexane	1	16.0238	0	20	80	70	130
Dibromomethane	1	23.7422	0	20	119	70	130
1,2-Dichloropropane	1	16.7371	0	20	84	70	130
Trichloroethene	1	45.0625	38.1694	20	34*	70	130
Benzene	1	19.9083	0	20	100	70	130
tert-Amyl methyl ether	1	17.895	0	20	89	70	130
Iso-propylacetate	1	15.138	0	20	76	70	130
Methyl methacrylate	1	17.2409	0	20	86	70	130
Dibromochloromethane	1	22.911	0	20	115	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	17.1197	0	20	86	70	130
trans-1,3-Dichloropropene	1	18.2933	0	20	91	70	130
Ethyl methacrylate	1	16.0499	0	20	80	70	130
1,1,2-Trichloroethane	1	18.3621	0	20	92	70	130
1,2-Dibromoethane	1	18.8749	0	20	94	70	130
1,3-Dichloropropane	1	19.2143	0	20	96	70	130
4-Methyl-2-Pentanone	1	14.1897	0	20	71	50	150
2-Hexanone	1	15.371	0	20	77	50	150
Tetrachloroethene	1	23.5654	2.1433	20	107	50	130
Toluene	1	18.9463	0	20	95	70	130
1,1,1,2-Tetrachloroethane	1	23.3391	0	20	117	70	130
Chlorobenzene	1	18.9378	0	20	95	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61660

n-Butyl acrylate	1	13.2576	0	20	66*	70	130
n-Amyl acetate	1	12.6272	0	20	63*	70	130
Bromoform	1	18.3598	0	20	92	70	130
Ethylbenzene	1	16.898	0	20	84	70	130
1,1,2,2-Tetrachloroethane	1	14.7473	0	20	74	70	130
Styrene	1	16.947	0	20	85	70	130
m&p-Xylenes	1	33.9193	0	40	85	70	130
o-Xylene	1	17.53 .	0	20	88	70	130
trans-1,4-Dichloro-2-butene	1	13.0835	0	20	65	50	150
1,3-Dichlorobenzene	1	16.6655	0	20	83	70	130
1,4-Dichlorobenzene	1	17.7022	0	20	89	70	130
1,2-Dichlorobenzene	1	16.5448	0	20	83	70	130
Isopropylbenzene	1	17.2437	0	20	86	70	130
Cyclohexanone	1	54.5927	0	100	55	50	150
Camphene	1	2.81	0	20	14*	70	130
1,2,3-Trichloropropane	1	15.4924	0	20	77	70	130
2-Chlorotoluene	1	19.3833	0	20	97	70	130
p-Ethyltoluene	1	17.228	0	20	86	70	130
4-Chlorotoluene	1	17.4838	0	20	87	70	130
n-Propylbenzene	1	17.8948	0	20	89	70	130
Bromobenzene	1	16.2451	0	20	81	70	130
1,3,5-Trimethylbenzene	1	20.2819	0	20	101	70	130
Butyl methacrylate	1	15.6224	0	20	78	70	130
t-Butylbenzene	1	17.3948	0	20	87	70	130
1,2,4-Trimethylbenzene	1	17.2583	0	20	86	70	130
sec-Butylbenzene	1	16.7769	0	20	84	70	130
4-Isopropyltoluene	1	16.5916	0	20	83	70	130
n-Butylbenzene	1	16.2051	0	20	81	70	130
p-Diethylbenzene	1	16.2077	0	20	81	70	130
1,2,4,5-Tetramethylbenzene	1	14.719	0	20	74	70	130
1,2-Dibromo-3-Chloropropane	1	13.5245	0	20	68	50	150
Camphor	1	134.7489	0	200	67	50	150
Hexachlorobutadiene	1	13.187	0	20	66	50	150
1,2,4-Trichlorobenzene	1	16.1623	0	20	81	70	130
1,2,3-Trichlorobenzene	1	14.4494	0	20	72	70	130
Naphthalene	1	12.7372	0	20	64	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61660

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M113687.D	AC98885-002(MSD)	7/14/2017 3:41:00 AM
Non Spike(If applicable):	3M113644.D	AC98885-002	7/13/2017 3:56:00 PM
Inst Blank(If applicable):			

Method: 8260C | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.8617	0	20	99	50	150
Dichlorodifluoromethane	1	17.8869	0	20	89	50	150
Chloromethane	1	19.2311	0	20	96	50	150
Bromomethane	1	23.4692	0	20	117	50	150
Vinyl Chloride	1	17.7687	0	20	89	50	150
Chloroethane	1	23.4388	0	20	117	50	150
Trichlorofluoromethane	1	26.0707	0	20	130	50	150
Ethyl ether	1	17.7008	0	20	89	50	150
Furan	1	18.37	0	20	92	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.0255	0	20	115	50	150
Methylene Chloride	1	20.6253	0	20	103	70	130
Acrolein	1	75.0345	0	100	75	50	150
Acrylonitrile	1	17.0894	0	20	85	50	150
Iodomethane	1	23.5255	0	20	118	50	150
Acetone	1	86.61	0	100	87	50	150
Carbon Disulfide	1	21.2942	0	20	106	50	150
t-Butyl Alcohol	1	66.3787	0	100	66	50	150
n-Hexane	1	17.9775	0	20	90	70	130
Di-isopropyl-ether	1	16.8797	0	20	84	70	130
1,1-Dichloroethene	1	22.842	0	20	114	70	130
Methyl Acetate	1	15.2457	0	20	76	50	150
Methyl-t-butyl ether	1	18.7383	0	20	94	70	130
1,1-Dichloroethane	1	20.1504	0	20	101	70	130
trans-1,2-Dichloroethene	1	21.8131	0	20	109	70	130
Ethyl-t-butyl ether	1	18.0341	0	20	90	70	130
cis-1,2-Dichloroethene	1	20.4693	1.4623	20	95	70	130
Bromochloromethane	1	18.5424	0	20	93	70	130
2,2-Dichloropropane	1	21.4748	0	20	107	70	130
Ethyl acetate	1	22.2931	0	20	111	50	130
1,4-Dioxane	1	885.3256	0	1000	89	50	150
1,1-Dichloropropene	1	22.0595	0	20	110	70	130
Chloroform	1	22.57	0	20	113	70	130
Cyclohexane	1	15.9448	0	20	80	70	130
1,2-Dichloroethane	1	22.774	0	20	114	70	130
2-Butanone	1	15.4653	0	20	77	50	150
1,1,1-Trichloroethane	1	24.37	0	20	122	70	130
Carbon Tetrachloride	1	27.6891	0	20	138	50	150
Vinyl Acetate	1	20.4147	0	20	102	50	150
Bromodichloromethane	1	22.2676	0	20	111	70	130
Methylcyclohexane	1	16.5259	0	20	83	70	130
Dibromomethane	1	23.3521	0	20	117	70	130
1,2-Dichloropropane	1	17.8983	0	20	89	70	130
Trichloroethene	1	46.3406	38.1694	20	41*	70	130
Benzene	1	20.0785	0	20	100	70	130
tert-Amyl methyl ether	1	18.6393	0	20	93	70	130
Iso-propylacetate	1	16.153	0	20	81	70	130
Methyl methacrylate	1	15.2143	0	20	76	70	130
Dibromochloromethane	1	22.5918	0	20	113	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	17.2134	0	20	86	70	130
trans-1,3-Dichloropropene	1	17.8062	0	20	89	70	130
Ethyl methacrylate	1	16.9152	0	20	85	70	130
1,1,2-Trichloroethane	1	18.3249	0	20	92	70	130
1,2-Dibromoethane	1	19.49	0	20	97	70	130
1,3-Dichloropropane	1	19.0626	0	20	95	70	130
4-Methyl-2-Pentanone	1	15.4128	0	20	77	50	150
2-Hexanone	1	15.2963	0	20	76	50	150
Tetrachloroethene	1	24.5469	2.1433	20	112	50	130
Toluene	1	18.8042	0	20	94	70	130
1,1,1,2-Tetrachloroethane	1	22.8003	0	20	114	70	130
Chlorobenzene	1	18.477	0	20	92	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61660

n-Butyl acrylate	1	13.4853	0	20	67*	70	130
n-Amyl acetate	1	12.514	0	20	63*	70	130
Bromoform	1	16.6984	0	20	83	70	130
Ethylbenzene	1	16.1753	0	20	81	70	130
1,1,2,2-Tetrachloroethane	1	14.5611	0	20	73	70	130
Styrene	1	16.7686	0	20	84	70	130
m&p-Xylenes	1	33.0964	0	40	83	70	130
o-Xylene	1	17.2618	0	20	86	70	130
trans-1,4-Dichloro-2-butene	1	11.2872	0	20	56	50	150
1,3-Dichlorobenzene	1	16.2378	0	20	81	70	130
1,4-Dichlorobenzene	1	16.5236	0	20	83	70	130
1,2-Dichlorobenzene	1	16.2965	0	20	81	70	130
Isopropylbenzene	1	16.6833	0	20	83	70	130
Cyclohexanone	1	55.5584	0	100	56	50	150
Camphene	1	2.7531	0	20	14*	70	130
1,2,3-Trichloropropane	1	15.065	0	20	75	70	130
2-Chlorotoluene	1	17.7538	0	20	89	70	130
p-Ethyltoluene	1	15.5337	0	20	78	70	130
4-Chlorotoluene	1	15.9925	0	20	80	70	130
n-Propylbenzene	1	16.5628	0	20	83	70	130
Bromobenzene	1	15.7051	0	20	79	70	130
1,3,5-Trimethylbenzene	1	20.1858	0	20	101	70	130
Butyl methacrylate	1	15.4677	0	20	77	70	130
t-Butylbenzene	1	16.0976	0	20	80	70	130
1,2,4-Trimethylbenzene	1	15.9972	0	20	80	70	130
sec-Butylbenzene	1	15.5019	0	20	78	70	130
4-Isopropyltoluene	1	15.4157	0	20	77	70	130
n-Butylbenzene	1	14.8973	0	20	74	70	130
p-Diethylbenzene	1	14.3382	0	20	72	70	130
1,2,4,5-Tetramethylbenzene	1	12.6655	0	20	63*	70	130
1,2-Dibromo-3-Chloropropane	1	14.4871	0	20	72	50	150
Camphor	1	144.7571	0	200	72	50	150
Hexachlorobutadiene	1	12.3672	0	20	62	50	150
1,2,4-Trichlorobenzene	1	15.5531	0	20	78	70	130
1,2,3-Trichlorobenzene	1	14.6234	0	20	73	70	130
Naphthalene	1	12.7723	0	20	64	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61672

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M113749.D	AC98942-001(MS)	7/14/2017 8:40:00 PM
Non Spike(If applicable):	3M113720.D	AC98942-001	7/14/2017 12:53:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	16.8456	0	20	84	50	150
Dichlorodifluoromethane	1	16.9808	0	20	85	50	150
Chloromethane	1	16.3609	0	20	82	50	150
Bromomethane	1	17.1949	0	20	86	50	150
Vinyl Chloride	1	15.8367	0	20	79	50	150
Chloroethane	1	19.1222	0	20	96	50	150
Trichlorofluoromethane	1	21.9164	0	20	110	50	150
Ethyl ether	1	16.749	0	20	84	50	150
Furan	1	15.9543	0	20	80	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	21.0032	0	20	105	50	150
Methylene Chloride	1	17.9805	0	20	90	70	130
Acrolein	1	26.9851	0	100	27*	50	150
Acrylonitrile	1	15.4235	0	20	77	50	150
Iodomethane	1	20.2372	0	20	101	50	150
Acetone	1	80.4073	0	100	80	50	150
Carbon Disulfide	1	18.1679	0	20	91	50	150
t-Butyl Alcohol	1	71.4366	0	100	71	50	150
n-Hexane	1	17.5159	0	20	88	70	130
Di-isopropyl-ether	1	15.7913	0	20	79	70	130
1,1-Dichloroethene	1	19.5381	0	20	98	70	130
Methyl Acetate	1	15.3638	0	20	77	50	150
Methyl-t-butyl ether	1	17.099	0	20	85	70	130
1,1-Dichloroethane	1	18.0481	0	20	90	70	130
trans-1,2-Dichloroethene	1	20.2166	0	20	101	70	130
Ethyl-t-butyl ether	1	15.9679	0	20	80	70	130
cis-1,2-Dichloroethene	1	18.4697	0	20	92	70	130
Bromochloromethane	1	17.6339	0	20	88	70	130
2,2-Dichloropropane	1	22.0804	0	20	110	70	130
Ethyl acetate	1	21.9129	0	20	110	50	130
1,4-Dioxane	1	801.4867	0	1000	80	50	150
1,1-Dichloropropene	1	19.794	0	20	99	70	130
Chloroform	1	18.4755	0	20	92	70	130
Cyclohexane	1	15.9276	0	20	80	70	130
1,2-Dichloroethane	1	19.7313	0	20	99	70	130
2-Butanone	1	12.8988	0	20	64	50	150
1,1,1-Trichloroethane	1	20.5745	0	20	103	70	130
Carbon Tetrachloride	1	22.3478	0	20	112	50	150
Vinyl Acetate	1	16.5439	0	20	83	50	150
Bromodichloromethane	1	18.7996	0	20	94	70	130
Methylcyclohexane	1	16.2934	0	20	81	70	130
Dibromomethane	1	18.7049	0	20	94	70	130
1,2-Dichloropropane	1	15.9287	0	20	80	70	130
Trichloroethene	1	19.1944	0	20	96	70	130
Benzene	1	18.2389	0	20	91	70	130
tert-Amyl methyl ether	1	16.98	0	20	85	70	130
Iso-propylacetate	1	14.5407	0	20	73	70	130
Methyl methacrylate	1	14.9385	0	20	75	70	130
Dibromochloromethane	1	19.1732	0	20	96	70	130
2-Chloroethylvinylether	1	14.1331	0	20	71	70	130
cis-1,3-Dichloropropene	1	16.0834	0	20	80	70	130
trans-1,3-Dichloropropene	1	16.4756	0	20	82	70	130
Ethyl methacrylate	1	14.3765	0	20	72	70	130
1,1,2-Trichloroethane	1	16.3292	0	20	82	70	130
1,2-Dibromoethane	1	16.8624	0	20	84	70	130
1,3-Dichloropropane	1	16.9625	0	20	85	70	130
4-Methyl-2-Pentanone	1	14.6557	0	20	73	50	150
2-Hexanone	1	14.4605	0	20	72	50	150
Tetrachloroethene	1	19.7862	0	20	99	50	130
Toluene	1	17.1002	0	20	86	70	130
1,1,1,2-Tetrachloroethane	1	19.732	0	20	99	70	130
Chlorobenzene	1	16.5012	0	20	83	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61672

n-Butyl acrylate	1	11.9787	0	20	60*	70	130
n-Amyl acetate	1	10.5166	0	20	53*	70	130
Bromoform	1	14.7625	0	20	74	70	130
Ethylbenzene	1	15.4506	0	20	77	70	130
1,1,2,2-Tetrachloroethane	1	13.0375	0	20	65*	70	130
Styrene	1	15.562	0	20	78	70	130
m&p-Xylenes	1	29.9767	0	40	75	70	130
o-Xylene	1	15.6713	0	20	78	70	130
trans-1,4-Dichloro-2-butene	1	13.5805	0	20	68	50	150
1,3-Dichlorobenzene	1	14.0737	0	20	70	70	130
1,4-Dichlorobenzene	1	14.6746	0	20	73	70	130
1,2-Dichlorobenzene	1	14.3888	0	20	72	70	130
Isopropylbenzene	1	14.5794	0	20	73	70	130
Cyclohexanone	1	102.5528	0	100	103	50	150
Camphene	1	12.4719	0	20	62*	70	130
1,2,3-Trichloropropane	1	13.7375	0	20	69*	70	130
2-Chlorotoluene	1	15.5537	0	20	78	70	130
p-Ethyltoluene	1	13.6147	0	20	68*	70	130
4-Chlorotoluene	1	14.8923	0	20	74	70	130
n-Propylbenzene	1	15.1751	0	20	76	70	130
Bromobenzene	1	14.503	0	20	73	70	130
1,3,5-Trimethylbenzene	1	18.0356	0	20	90	70	130
Butyl methacrylate	1	13.2247	0	20	66*	70	130
t-Butylbenzene	1	14.3715	0	20	72	70	130
1,2,4-Trimethylbenzene	1	13.8648	0	20	69*	70	130
sec-Butylbenzene	1	13.3475	0	20	67*	70	130
4-Isopropyltoluene	1	13.2716	0	20	66*	70	130
n-Butylbenzene	1	12.8792	0	20	64*	70	130
p-Diethylbenzene	1	13.0425	0	20	65*	70	130
1,2,4,5-Tetramethylbenzene	1	13.4252	0	20	67*	70	130
1,2-Dibromo-3-Chloropropane	1	12.5839	0	20	63	50	150
Camphor	1	145.7356	0	200	73	50	150
Hexachlorobutadiene	1	11.166	0	20	56	50	150
1,2,4-Trichlorobenzene	1	13.5729	0	20	68*	70	130
1,2,3-Trichlorobenzene	1	11.7464	0	20	59*	70	130
Naphthalene	1	12.1882	0	20	61	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS61672

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M113750.D	AC98942-001(MSD)	7/14/2017 8:57:00 PM
Non Spike(If applicable):	3M113720.D	AC98942-001	7/14/2017 12:53:00 PM
Inst Blank(If applicable):			

Method: 8260C | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	15.92	0	20	80	50	150
Dichlorodifluoromethane	1	15.7082	0	20	79	50	150
Chloromethane	1	15.3515	0	20	77	50	150
Bromomethane	1	16.8537	0	20	84	50	150
Vinyl Chloride	1	15.5164	0	20	78	50	150
Chloroethane	1	19.886	0	20	99	50	150
Trichlorofluoromethane	1	21.327	0	20	107	50	150
Ethyl ether	1	16.4807	0	20	82	50	150
Furan	1	16.5865	0	20	83	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6373	0	20	103	50	150
Methylene Chloride	1	17.5823	0	20	88	70	130
Acrolein	1	24.5875	0	100	25 *	50	150
Acrylonitrile	1	16.2657	0	20	81	50	150
Iodomethane	1	20.9677	0	20	105	50	150
Acetone	1	83.3679	0	100	83	50	150
Carbon Disulfide	1	18.1697	0	20	91	50	150
t-Butyl Alcohol	1	74.3084	0	100	74	50	150
n-Hexane	1	16.9864	0	20	85	70	130
Di-isopropyl-ether	1	15.6451	0	20	78	70	130
1,1-Dichloroethene	1	17.4913	0	20	87	70	130
Methyl Acetate	1	15.5374	0	20	78	50	150
Methyl-t-butyl ether	1	17.5923	0	20	88	70	130
1,1-Dichloroethane	1	17.2972	0	20	86	70	130
trans-1,2-Dichloroethene	1	19.7436	0	20	99	70	130
Ethyl-t-butyl ether	1	16.3273	0	20	82	70	130
cis-1,2-Dichloroethene	1	17.9301	0	20	90	70	130
Bromochloromethane	1	17.5132	0	20	88	70	130
2,2-Dichloropropane	1	21.9447	0	20	110	70	130
Ethyl acetate	1	20.8493	0	20	104	50	130
1,4-Dioxane	1	804.1578	0	1000	80	50	150
1,1-Dichloropropene	1	20.2231	0	20	101	70	130
Chloroform	1	18.4321	0	20	92	70	130
Cyclohexane	1	15.7793	0	20	79	70	130
1,2-Dichloroethane	1	19.2977	0	20	96	70	130
2-Butanone	1	12.7196	0	20	64	50	150
1,1,1-Trichloroethane	1	20.757	0	20	104	70	130
Carbon Tetrachloride	1	22.133	0	20	111	50	150
Vinyl Acetate	1	16.1034	0	20	81	50	150
Bromodichloromethane	1	18.4926	0	20	92	70	130
Methylcyclohexane	1	16.1723	0	20	81	70	130
Dibromomethane	1	19.3517	0	20	97	70	130
1,2-Dichloropropane	1	16.1836	0	20	81	70	130
Trichloroethene	1	18.3502	0	20	92	70	130
Benzene	1	17.9813	0	20	90	70	130
tert-Amyl methyl ether	1	17.1331	0	20	86	70	130
Iso-propylacetate	1	14.3785	0	20	72	70	130
Methyl methacrylate	1	15.1197	0	20	76	70	130
Dibromochloromethane	1	18.7928	0	20	94	70	130
2-Chloroethylvinylether	1	13.9131	0	20	70	70	130
cis-1,3-Dichloropropene	1	15.7477	0	20	79	70	130
trans-1,3-Dichloropropene	1	16.6009	0	20	83	70	130
Ethyl methacrylate	1	13.9288	0	20	70	70	130
1,1,2-Trichloroethane	1	15.6985	0	20	78	70	130
1,2-Dibromoethane	1	16.5974	0	20	83	70	130
1,3-Dichloropropane	1	16.3966	0	20	82	70	130
4-Methyl-2-Pentanone	1	14.451	0	20	72	50	150
2-Hexanone	1	14.384	0	20	72	50	150
Tetrachloroethene	1	19.057	0	20	95	50	130
Toluene	1	16.399	0	20	82	70	130
1,1,1,2-Tetrachloroethane	1	20.1293	0	20	101	70	130
Chlorobenzene	1	16.4209	0	20	82	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS61672

n-Butyl acrylate	1	12.3254	0	20	62*	70	130
n-Amyl acetate	1	11.6019	0	20	58*	70	130
Bromoform	1	15.3167	0	20	77	70	130
Ethylbenzene	1	16.0629	0	20	80	70	130
1,1,2,2-Tetrachloroethane	1	13.6338	0	20	68*	70	130
Styrene	1	16.1754	0	20	81	70	130
m&p-Xylenes	1	30.1168	0	40	75	70	130
o-Xylene	1	16.7164	0	20	84	70	130
trans-1,4-Dichloro-2-butene	1	14.9067	0	20	75	50	150
1,3-Dichlorobenzene	1	15.5787	0	20	78	70	130
1,4-Dichlorobenzene	1	16.2872	0	20	81	70	130
1,2-Dichlorobenzene	1	15.4545	0	20	77	70	130
Isopropylbenzene	1	16.0774	0	20	80	70	130
Cyclohexanone	1	146.3057	0	100	146	50	150
Camphene	1	15.4204	0	20	77	70	130
1,2,3-Trichloropropane	1	14.2016	0	20	71	70	130
2-Chlorotoluene	1	16.818	0	20	84	70	130
p-Ethyltoluene	1	16.8294	0	20	84	70	130
4-Chlorotoluene	1	15.4243	0	20	77	70	130
n-Propylbenzene	1	16.5198	0	20	83	70	130
Bromobenzene	1	15.573	0	20	78	70	130
1,3,5-Trimethylbenzene	1	17.1437	0	20	86	70	130
Butyl methacrylate	1	13.9292	0	20	70	70	130
t-Butylbenzene	1	15.929	0	20	80	70	130
1,2,4-Trimethylbenzene	1	15.4395	0	20	77	70	130
sec-Butylbenzene	1	16.1966	0	20	81	70	130
4-Isopropyltoluene	1	16.0487	0	20	80	70	130
n-Butylbenzene	1	16.1555	0	20	81	70	130
p-Diethylbenzene	1	16.4464	0	20	82	70	130
1,2,4,5-Tetramethylbenzene	1	14.3565	0	20	72	70	130
1,2-Dibromo-3-Chloropropane	1	12.8254	0	20	64	50	150
Camphor	1	154.2775	0	200	77	50	150
Hexachlorobutadiene	1	14.9054	0	20	75	50	150
1,2,4-Trichlorobenzene	1	16.8376	0	20	84	70	130
1,2,3-Trichlorobenzene	1	14.9584	0	20	75	70	130
Naphthalene	1	12.8117	0	20	64	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS61672

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M113750.D	AC98942-001(MSD)	7/14/2017 8:57:00 PM
Duplicate(If applicable):	3M113749.D	AC98942-001(MS)	7/14/2017 8:40:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	15.92	16.8456	5.6	20
Dichlorodifluoromethane	1	15.7082	16.9808	7.8	20
Chloromethane	1	15.3515	16.3609	6.4	20
Bromomethane	1	16.8537	17.1949	2	20
Vinyl Chloride	1	15.5164	15.8367	2	40
Chloroethane	1	19.886	19.1222	3.9	20
Trichlorofluoromethane	1	21.327	21.9164	2.7	20
Ethyl ether	1	16.4807	16.749	1.6	20
Furan	1	16.5865	15.9543	3.9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6373	21.0032	1.8	20
Methylene Chloride	1	17.5823	17.9805	2.2	20
Acrolein	1	24.5875	26.9851	9.3	20
Acrylonitrile	1	16.2657	15.4235	5.3	20
Iodomethane	1	20.9677	20.2372	3.5	20
Acetone	1	83.3679	80.4073	3.6	20
Carbon Disulfide	1	18.1697	18.1679	0.01	20
t-Butyl Alcohol	1	74.3084	71.4366	3.9	20
n-Hexane	1	16.9864	17.5159	3.1	20
Di-isopropyl-ether	1	15.6451	15.7913	0.93	20
1,1-Dichloroethene	1	17.4913	19.5381	11	40
Methyl Acetate	1	15.5374	15.3638	1.1	20
Methyl-t-butyl ether	1	17.5923	17.099	2.8	20
1,1-Dichloroethane	1	17.2972	18.0481	4.2	40
trans-1,2-Dichloroethene	1	19.7436	20.2166	2.4	20
Ethyl-t-butyl ether	1	16.3273	15.9679	2.2	20
cis-1,2-Dichloroethene	1	17.9301	18.4697	3	20
Bromochloromethane	1	17.5132	17.6339	0.69	20
2,2-Dichloropropane	1	21.9447	22.0804	0.62	20
Ethyl acetate	1	20.8493	21.9129	5	20
1,4-Dioxane	1	804.1578	801.4867	0.33	20
1,1-Dichloropropene	1	20.2231	19.794	2.1	20
Chloroform	1	18.4321	18.4755	0.24	40
Cyclohexane	1	15.7793	15.9276	0.94	20
1,2-Dichloroethane	1	19.2977	19.7313	2.2	40
2-Butanone	1	12.7196	12.8988	1.4	40
1,1,1-Trichloroethane	1	20.757	20.5745	0.88	20
Carbon Tetrachloride	1	22.133	22.3478	0.97	40
Vinyl Acetate	1	16.1034	16.5439	2.7	20
Bromodichloromethane	1	18.4926	18.7996	1.6	20
Methylcyclohexane	1	16.1723	16.2934	0.75	20
Dibromomethane	1	19.3517	18.7049	3.4	20
1,2-Dichloropropane	1	16.1836	15.9287	1.6	20
Trichloroethene	1	18.3502	19.1944	4.5	40
Benzene	1	17.9813	18.2389	1.4	40
tert-Amyl methyl ether	1	17.1331	16.98	0.9	20
Iso-propylacetate	1	14.3785	14.5407	1.1	20
Methyl methacrylate	1	15.1197	14.9385	1.2	20
Dibromochloromethane	1	18.7928	19.1732	2	20
2-Chloroethylvinylether	1	13.9131	14.1331	1.6	20
cis-1,3-Dichloropropene	1	15.7477	16.0834	2.1	20
trans-1,3-Dichloropropene	1	16.6009	16.4756	0.76	20
Ethyl methacrylate	1	13.9288	14.3765	3.2	20
1,1,2-Trichloroethane	1	15.6985	16.3292	3.9	20
1,2-Dibromoethane	1	16.5974	16.8624	1.6	20
1,3-Dichloropropane	1	16.3966	16.9625	3.4	20
4-Methyl-2-Pentanone	1	14.451	14.6557	1.4	20
2-Hexanone	1	14.384	14.4605	0.53	20
Tetrachloroethene	1	19.057	19.7862	3.8	40
Toluene	1	16.399	17.1002	4.2	40
1,1,1,2-Tetrachloroethane	1	20.1293	19.732	2	20
Chlorobenzene	1	16.4209	16.5012	0.49	40
n-Butyl acrylate	1	12.3254	11.9787	2.9	20
n-Amyl acetate	1	11.6019	10.5166	9.8	20

Form3
RPD Data Laboratory Limits
QC Batch: MBS61672

Bromoform	1	15.3167	14.7625	3.7	20
Ethylbenzene	1	16.0629	15.4506	3.9	20
1,1,2,2-Tetrachloroethane	1	13.6338	13.0375	4.5	20
Styrene	1	16.1754	15.562	3.9	20
m&p-Xylenes	1	30.1168	29.9767	0.47	20
o-Xylene	1	16.7164	15.6713	6.5	20
trans-1,4-Dichloro-2-butene	1	14.9067	13.5805	9.3	20
1,3-Dichlorobenzene	1	15.5787	14.0737	10	20
1,4-Dichlorobenzene	1	16.2872	14.6746	10	40
1,2-Dichlorobenzene	1	15.4545	14.3888	7.1	40
Isopropylbenzene	1	16.0774	14.5794	9.8	20
Cyclohexanone	1	146.3057	102.5528	35*	20
Camphene	1	15.4204	12.4719	21*	20
1,2,3-Trichloropropane	1	14.2016	13.7375	3.3	20
2-Chlorotoluene	1	16.818	15.5537	7.8	20
p-Ethyltoluene	1	16.8294	13.6147	21*	20
4-Chlorotoluene	1	15.4243	14.8923	3.5	20
n-Propylbenzene	1	16.5198	15.1751	8.5	40
Bromobenzene	1	15.573	14.503	7.1	20
1,3,5-Trimethylbenzene	1	17.1437	18.0356	5.1	20
Butyl methacrylate	1	13.9292	13.2247	5.2	20
t-Butylbenzene	1	15.929	14.3715	10	20
1,2,4-Trimethylbenzene	1	15.4395	13.8648	11	20
sec-Butylbenzene	1	16.1966	13.3475	19	40
4-Isopropyltoluene	1	16.0487	13.2716	19	20
n-Butylbenzene	1	16.1555	12.8792	23*	20
p-Diethylbenzene	1	16.4464	13.0425	23*	20
1,2,4,5-Tetramethylbenzene	1	14.3565	13.4252	6.7	20
1,2-Dibromo-3-Chloropropane	1	12.8254	12.5839	1.9	20
Camphor	1	154.2775	145.7356	5.7	20
Hexachlorobutadiene	1	14.9054	11.166	29*	20
1,2,4-Trichlorobenzene	1	16.8376	13.5729	21*	20
1,2,3-Trichlorobenzene	1	14.9584	11.7464	24*	20
Naphthalene	1	12.8117	12.1882	5	20

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB60401
Client Id:
Data File: 5M100506.D
Analysis Date: 07/12/17 11:42
Date Rec/Extracted: NA-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.80	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB60402
Client Id:
Data File: 7M85443.D
Analysis Date: 07/12/17 16:44
Date Rec/Extracted: NA-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	207-08-9	Benzo[k]fluoranthene	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.0083	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.0083	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0083	U
95-48-7	2-Methylphenol	0.0083	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.0083	U
106-44-5	3&4-Methylphenol	0.0083	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.079	U
106-47-8	4-Chloroaniline	0.0083	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0083	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.0083	U
98-86-2	Acetophenone	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.17	U
1912-24-9	Atrazine	0.033	U	85-01-8	Phenanthrene	0.033	U
100-52-7	Benzaldehyde	0.033	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB60422
Client Id:
Data File: 5M100540.D
Analysis Date: 07/13/17 17:32
Date Rec/Extracted: NA-07/13/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.80	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB60426
Client Id:
Data File: 10M63993.D
Analysis Date: 07/14/17 12:36
Date Rec/Extracted: NA-07/14/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.80	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 431023

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-001
Client Id: LMW-2-201707 U
Data File: 5M100521.D
Analysis Date: 07/12/17 17:37
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 920ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	207-08-9	Benzo[k]fluoranthene	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.54	U
120-83-2	2,4-Dichlorophenol	0.87	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.54	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.54	U
95-48-7	2-Methylphenol	0.54	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	0.54	U
106-44-5	3&4-Methylphenol	0.54	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.54	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.54	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.54	U
98-86-2	Acetophenone	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
120-12-7	Anthracene	2.2	U	87-86-5	Pentachlorophenol	11	U
1912-24-9	Atrazine	2.2	U	85-01-8	Phenanthrene	2.2	U
100-52-7	Benzaldehyde	2.2	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-003
Client Id: LMW-4-201707 U
Data File: 5M100522.D
Analysis Date: 07/12/17 18:01
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	207-08-9	Benzo[k]fluoranthene	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.56	U
120-83-2	2,4-Dichlorophenol	0.89	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.56	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.56	U
95-48-7	2-Methylphenol	0.56	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	0.56	U
106-44-5	3&4-Methylphenol	0.56	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.56	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.56	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.56	U
98-86-2	Acetophenone	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
120-12-7	Anthracene	2.2	U	87-86-5	Pentachlorophenol	11	U
1912-24-9	Atrazine	2.2	U	85-01-8	Phenanthrene	2.2	U
100-52-7	Benzaldehyde	2.2	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-005
Client Id: PC-2-201707 U
Data File: 5M100523.D
Analysis Date: 07/12/17 18:25
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 940ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.1	U	205-99-2	Benzo[b]fluoranthene	2.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.1	U	191-24-2	Benzo[g,h,i]perylene	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.1	U	207-08-9	Benzo[k]fluoranthene	2.1	U
95-95-4	2,4,5-Trichlorophenol	2.1	U	111-91-1	bis(2-Chloroethoxy)methan	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	111-44-4	bis(2-Chloroethyl)ether	0.53	U
120-83-2	2,4-Dichlorophenol	0.85	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
105-67-9	2,4-Dimethylphenol	0.53	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	105-60-2	Caprolactam	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	86-74-8	Carbazole	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
95-57-8	2-Chlorophenol	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
91-57-6	2-Methylnaphthalene	2.1	U	132-64-9	Dibenzofuran	0.53	U
95-48-7	2-Methylphenol	0.53	U	84-66-2	Diethylphthalate	2.1	U
88-74-4	2-Nitroaniline	2.1	U	131-11-3	Dimethylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	84-74-2	Di-n-butylphthalate	0.53	U
106-44-5	3&4-Methylphenol	0.53	U	117-84-0	Di-n-octylphthalate	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	206-44-0	Fluoranthene	2.1	U
99-09-2	3-Nitroaniline	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
106-47-8	4-Chloroaniline	0.53	U	67-72-1	Hexachloroethane	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
100-01-6	4-Nitroaniline	2.1	U	78-59-1	Isophorone	2.1	U
100-02-7	4-Nitrophenol	2.1	U	91-20-3	Naphthalene	0.53	U
83-32-9	Acenaphthene	2.1	U	98-95-3	Nitrobenzene	2.1	U
208-96-8	Acenaphthylene	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.53	U
98-86-2	Acetophenone	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
120-12-7	Anthracene	2.1	U	87-86-5	Pentachlorophenol	11	U
1912-24-9	Atrazine	2.1	U	85-01-8	Phenanthrene	2.1	U
100-52-7	Benzaldehyde	2.1	U	108-95-2	Phenol	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	129-00-0	Pyrene	2.1	U
50-32-8	Benzo[a]pyrene	2.1	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-007
Client Id: SW-4-201707 U
Data File: 5M100524.D
Analysis Date: 07/12/17 18:49
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	207-08-9	Benzo[k]fluoranthene	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.56	U
120-83-2	2,4-Dichlorophenol	0.89	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.56	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.56	U
95-48-7	2-Methylphenol	0.56	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	0.56	U
106-44-5	3&4-Methylphenol	0.56	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.56	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.56	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.56	U
98-86-2	Acetophenone	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
120-12-7	Anthracene	2.2	U	87-86-5	Pentachlorophenol	11	U
1912-24-9	Atrazine	2.2	U	85-01-8	Phenanthrene	2.2	U
100-52-7	Benzaldehyde	2.2	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-009
Client Id: SD-4-201707
Data File: 7M85478.D
Analysis Date: 07/13/17 12:21
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 68

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.049	U	205-99-2	Benzo[b]fluoranthene	0.049	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.049	U	191-24-2	Benzo[g,h,i]perylene	0.049	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.049	U	207-08-9	Benzo[k]fluoranthene	0.049	U
95-95-4	2,4,5-Trichlorophenol	0.049	U	111-91-1	bis(2-Chloroethoxy)methan	0.049	U
88-06-2	2,4,6-Trichlorophenol	0.049	U	111-44-4	bis(2-Chloroethyl)ether	0.012	U
120-83-2	2,4-Dichlorophenol	0.012	U	108-60-1	bis(2-chloroisopropyl)ether	0.049	U
105-67-9	2,4-Dimethylphenol	0.012	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.049	U
51-28-5	2,4-Dinitrophenol	0.25	U	85-68-7	Butylbenzylphthalate	0.049	U
121-14-2	2,4-Dinitrotoluene	0.049	U	105-60-2	Caprolactam	0.049	U
606-20-2	2,6-Dinitrotoluene	0.049	U	86-74-8	Carbazole	0.049	U
91-58-7	2-Chloronaphthalene	0.049	U	218-01-9	Chrysene	0.049	U
95-57-8	2-Chlorophenol	0.049	U	53-70-3	Dibenzo[a,h]anthracene	0.049	U
91-57-6	2-Methylnaphthalene	0.049	U	132-64-9	Dibenzofuran	0.012	U
95-48-7	2-Methylphenol	0.012	U	84-66-2	Diethylphthalate	0.049	U
88-74-4	2-Nitroaniline	0.049	U	131-11-3	Dimethylphthalate	0.049	U
88-75-5	2-Nitrophenol	0.049	U	84-74-2	Di-n-butylphthalate	0.012	U
106-44-5	3&4-Methylphenol	0.012	U	117-84-0	Di-n-octylphthalate	0.049	U
91-94-1	3,3'-Dichlorobenzidine	0.049	U	206-44-0	Fluoranthene	0.049	U
99-09-2	3-Nitroaniline	0.049	U	86-73-7	Fluorene	0.049	U
534-52-1	4,6-Dinitro-2-methylphenol	0.25	U	118-74-1	Hexachlorobenzene	0.049	U
101-55-3	4-Bromophenyl-phenylether	0.049	U	87-68-3	Hexachlorobutadiene	0.049	U
59-50-7	4-Chloro-3-methylphenol	0.049	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.012	U	67-72-1	Hexachloroethane	0.049	U
7005-72-3	4-Chlorophenyl-phenylether	0.049	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.049	U
100-01-6	4-Nitroaniline	0.049	U	78-59-1	Isophorone	0.049	U
100-02-7	4-Nitrophenol	0.049	U	91-20-3	Naphthalene	0.012	U
83-32-9	Acenaphthene	0.049	U	98-95-3	Nitrobenzene	0.049	U
208-96-8	Acenaphthylene	0.049	U	621-64-7	N-Nitroso-di-n-propylamine	0.012	U
98-86-2	Acetophenone	0.049	U	86-30-6	n-Nitrosodiphenylamine	0.049	U
120-12-7	Anthracene	0.049	U	87-86-5	Pentachlorophenol	0.25	U
1912-24-9	Atrazine	0.049	U	85-01-8	Phenanthrene	0.049	U
100-52-7	Benzaldehyde	0.049	U	108-95-2	Phenol	0.049	U
56-55-3	Benzo[a]anthracene	0.049	U	129-00-0	Pyrene	0.049	U
50-32-8	Benzo[a]pyrene	0.049	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-010
Client Id: SW-2-201707 U
Data File: 5M100518.D
Analysis Date: 07/12/17 16:25
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.80	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-012
Client Id: SD-2-201707
Data File: 7M85479.D
Analysis Date: 07/13/17 12:44
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 12

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.28	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.28**	**0.41**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.28	U	191-24-2	Benzo[g,h,i]perylene	0.28	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.28	U	207-08-9	Benzo[k]fluoranthene	0.28	U
95-95-4	2,4,5-Trichlorophenol	0.28	U	111-91-1	bis(2-Chloroethoxy)methan	0.28	U
88-06-2	2,4,6-Trichlorophenol	0.28	U	111-44-4	bis(2-Chloroethyl)ether	0.069	U
120-83-2	2,4-Dichlorophenol	0.069	U	108-60-1	bis(2-chloroisopropyl)ether	0.28	U
105-67-9	2,4-Dimethylphenol	0.069	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.28	U
51-28-5	2,4-Dinitrophenol	1.4	U	85-68-7	Butylbenzylphthalate	0.28	U
121-14-2	2,4-Dinitrotoluene	0.28	U	105-60-2	Caprolactam	0.28	U
606-20-2	2,6-Dinitrotoluene	0.28	U	86-74-8	Carbazole	0.28	U
91-58-7	2-Chloronaphthalene	0.28	U	**218-01-9**	**Chrysene**	**0.28**	**0.30**
95-57-8	2-Chlorophenol	0.28	U	53-70-3	Dibenzo[a,h]anthracene	0.28	U
91-57-6	2-Methylnaphthalene	0.28	U	132-64-9	Dibenzofuran	0.069	U
95-48-7	2-Methylphenol	0.069	U	84-66-2	Diethylphthalate	0.28	U
88-74-4	2-Nitroaniline	0.28	U	131-11-3	Dimethylphthalate	0.28	U
88-75-5	2-Nitrophenol	0.28	U	84-74-2	Di-n-butylphthalate	0.069	U
106-44-5	3&4-Methylphenol	0.069	U	117-84-0	Di-n-octylphthalate	0.28	U
91-94-1	3,3'-Dichlorobenzidine	0.28	U	**206-44-0**	**Fluoranthene**	**0.28**	**0.41**
99-09-2	3-Nitroaniline	0.28	U	86-73-7	Fluorene	0.28	U
534-52-1	4,6-Dinitro-2-methylphenol	1.4	U	118-74-1	Hexachlorobenzene	0.28	U
101-55-3	4-Bromophenyl-phenylether	0.28	U	87-68-3	Hexachlorobutadiene	0.28	U
59-50-7	4-Chloro-3-methylphenol	0.28	U	77-47-4	Hexachlorocyclopentadiene	0.65	U
106-47-8	4-Chloroaniline	0.069	U	67-72-1	Hexachloroethane	0.28	U
7005-72-3	4-Chlorophenyl-phenylether	0.28	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.28	U
100-01-6	4-Nitroaniline	0.28	U	78-59-1	Isophorone	0.28	U
100-02-7	4-Nitrophenol	0.28	U	91-20-3	Naphthalene	0.069	U
83-32-9	Acenaphthene	0.28	U	98-95-3	Nitrobenzene	0.28	U
208-96-8	Acenaphthylene	0.28	U	621-64-7	N-Nitroso-di-n-propylamine	0.069	U
98-86-2	Acetophenone	0.28	U	86-30-6	n-Nitrosodiphenylamine	0.28	U
120-12-7	Anthracene	0.28	U	87-86-5	Pentachlorophenol	1.4	U
1912-24-9	Atrazine	0.28	U	85-01-8	Phenanthrene	0.28	U
100-52-7	Benzaldehyde	0.28	U	108-95-2	Phenol	0.28	U
56-55-3	Benzo[a]anthracene	0.28	U	**129-00-0**	**Pyrene**	**0.28**	**0.49**
50-32-8	Benzo[a]pyrene	0.28	U				

Worksheet #: 430913

Total Target Concentration 1.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-013
Client Id: SW-1-201707 U
Data File: 5M100525.D
Analysis Date: 07/12/17 19:13
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.1	U	205-99-2	Benzo[b]fluoranthene	2.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.1	U	191-24-2	Benzo[g,h,i]perylene	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.1	U	207-08-9	Benzo[k]fluoranthene	2.1	U
95-95-4	2,4,5-Trichlorophenol	2.1	U	111-91-1	bis(2-Chloroethoxy)methan	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	111-44-4	bis(2-Chloroethyl)ether	0.53	U
120-83-2	2,4-Dichlorophenol	0.84	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
105-67-9	2,4-Dimethylphenol	0.53	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	105-60-2	Caprolactam	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	86-74-8	Carbazole	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
95-57-8	2-Chlorophenol	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
91-57-6	2-Methylnaphthalene	2.1	U	132-64-9	Dibenzofuran	0.53	U
95-48-7	2-Methylphenol	0.53	U	84-66-2	Diethylphthalate	2.1	U
88-74-4	2-Nitroaniline	2.1	U	131-11-3	Dimethylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	84-74-2	Di-n-butylphthalate	0.53	U
106-44-5	3&4-Methylphenol	0.53	U	117-84-0	Di-n-octylphthalate	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	206-44-0	Fluoranthene	2.1	U
99-09-2	3-Nitroaniline	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
106-47-8	4-Chloroaniline	0.53	U	67-72-1	Hexachloroethane	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
100-01-6	4-Nitroaniline	2.1	U	78-59-1	Isophorone	2.1	U
100-02-7	4-Nitrophenol	2.1	U	91-20-3	Naphthalene	0.53	U
83-32-9	Acenaphthene	2.1	U	98-95-3	Nitrobenzene	2.1	U
208-96-8	Acenaphthylene	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.53	U
98-86-2	Acetophenone	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
120-12-7	Anthracene	2.1	U	87-86-5	Pentachlorophenol	11	U
1912-24-9	Atrazine	2.1	U	85-01-8	Phenanthrene	2.1	U
100-52-7	Benzaldehyde	2.1	U	108-95-2	Phenol	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	129-00-0	Pyrene	2.1	U
50-32-8	Benzo[a]pyrene	2.1	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-015
Client Id: SD-1-201707
Data File: 7M85480.D
Analysis Date: 07/13/17 13:08
Date Rec/Extracted: 07/11/17-07/12/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 48

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.069	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.069**	**0.19**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.069	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.069**	**0.11**
58-90-2	2,3,4,6-Tetrachlorophenol	0.069	U	207-08-9	Benzo[k]fluoranthene	0.069	U
95-95-4	2,4,5-Trichlorophenol	0.069	U	111-91-1	bis(2-Chloroethoxy)methan	0.069	U
88-06-2	2,4,6-Trichlorophenol	0.069	U	111-44-4	bis(2-Chloroethyl)ether	0.017	U
120-83-2	2,4-Dichlorophenol	0.017	U	108-60-1	bis(2-chloroisopropyl)ether	0.069	U
105-67-9	2,4-Dimethylphenol	0.017	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.069	U
51-28-5	2,4-Dinitrophenol	0.35	U	85-68-7	Butylbenzylphthalate	0.069	U
121-14-2	2,4-Dinitrotoluene	0.069	U	105-60-2	Caprolactam	0.069	U
606-20-2	2,6-Dinitrotoluene	0.069	U	86-74-8	Carbazole	0.069	U
91-58-7	2-Chloronaphthalene	0.069	U	**218-01-9**	**Chrysene**	**0.069**	**0.13**
95-57-8	2-Chlorophenol	0.069	U	53-70-3	Dibenzo[a,h]anthracene	0.069	U
91-57-6	2-Methylnaphthalene	0.069	U	132-64-9	Dibenzofuran	0.017	U
95-48-7	2-Methylphenol	0.017	U	84-66-2	Diethylphthalate	0.069	U
88-74-4	2-Nitroaniline	0.069	U	131-11-3	Dimethylphthalate	0.069	U
88-75-5	2-Nitrophenol	0.069	U	84-74-2	Di-n-butylphthalate	0.017	U
106-44-5	3&4-Methylphenol	0.017	U	117-84-0	Di-n-octylphthalate	0.069	U
91-94-1	3,3'-Dichlorobenzidine	0.069	U	**206-44-0**	**Fluoranthene**	**0.069**	**0.17**
99-09-2	3-Nitroaniline	0.069	U	86-73-7	Fluorene	0.069	U
534-52-1	4,6-Dinitro-2-methylphenol	0.35	U	118-74-1	Hexachlorobenzene	0.069	U
101-55-3	4-Bromophenyl-phenylether	0.069	U	87-68-3	Hexachlorobutadiene	0.069	U
59-50-7	4-Chloro-3-methylphenol	0.069	U	77-47-4	Hexachlorocyclopentadiene	0.16	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.069	U
7005-72-3	4-Chlorophenyl-phenylether	0.069	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.069**	**0.086**
100-01-6	4-Nitroaniline	0.069	U	78-59-1	Isophorone	0.069	U
100-02-7	4-Nitrophenol	0.069	U	91-20-3	Naphthalene	0.017	U
83-32-9	Acenaphthene	0.069	U	98-95-3	Nitrobenzene	0.069	U
208-96-8	Acenaphthylene	0.069	U	621-64-7	N-Nitroso-di-n-propylamine	0.017	U
98-86-2	Acetophenone	0.069	U	86-30-6	n-Nitrosodiphenylamine	0.069	U
120-12-7	Anthracene	0.069	U	87-86-5	Pentachlorophenol	0.35	U
1912-24-9	Atrazine	0.069	U	85-01-8	Phenanthrene	0.069	U
100-52-7	Benzaldehyde	0.069	U	108-95-2	Phenol	0.069	U
56-55-3	**Benzo[a]anthracene**	**0.069**	**0.095**	**129-00-0**	**Pyrene**	**0.069**	**0.20**
50-32-8	**Benzo[a]pyrene**	**0.069**	**0.12**				

Worksheet #: 430913

Total Target Concentration 1.1

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98905-019
Client Id: SW-FD-201707 U
Data File: 5M100541.D
Analysis Date: 07/13/17 17:56
Date Rec/Extracted: 07/11/17-07/13/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.80	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 430913

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98940-001
Client Id: PC-1-201707 U
Data File: 10M64008.D
Analysis Date: 07/14/17 18:19
Date Rec/Extracted: 07/12/17-07/14/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	207-08-9	Benzo[k]fluoranthene	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.56	U
120-83-2	2,4-Dichlorophenol	0.89	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.56	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.56	U
95-48-7	2-Methylphenol	0.56	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	0.56	U
106-44-5	3&4-Methylphenol	0.56	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.56	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.56	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.56	U
98-86-2	Acetophenone	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
120-12-7	Anthracene	2.2	U	87-86-5	Pentachlorophenol	11	U
1912-24-9	Atrazine	2.2	U	85-01-8	Phenanthrene	2.2	U
100-52-7	Benzaldehyde	2.2	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U				

Worksheet #: 431023

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98940-003
Client Id: PC-FD-201707 U
Data File: 10M64009.D
Analysis Date: 07/14/17 18:41
Date Rec/Extracted: 07/12/17-07/14/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	207-08-9	Benzo[k]fluoranthene	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.56	U
120-83-2	2,4-Dichlorophenol	0.89	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.56	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.56	U
95-48-7	2-Methylphenol	0.56	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	0.56	U
106-44-5	3&4-Methylphenol	0.56	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.56	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.56	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.56	U
98-86-2	Acetophenone	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
120-12-7	Anthracene	2.2	U	87-86-5	Pentachlorophenol	11	U
1912-24-9	Atrazine	2.2	U	85-01-8	Phenanthrene	2.2	U
100-52-7	Benzaldehyde	2.2	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U				

Worksheet #: 431023

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC98940-005
Client Id: PC-3-201707 U
Data File: 10M64010.D
Analysis Date: 07/14/17 19:03
Date Rec/Extracted: 07/12/17-07/14/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	207-08-9	Benzo[k]fluoranthene	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.56	U
120-83-2	2,4-Dichlorophenol	0.89	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.56	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.56	U
95-48-7	2-Methylphenol	0.56	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	0.56	U
106-44-5	3&4-Methylphenol	0.56	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.56	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.56	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.56	U
98-86-2	Acetophenone	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
120-12-7	Anthracene	2.2	U	87-86-5	Pentachlorophenol	11	U
1912-24-9	Atrazine	2.2	U	85-01-8	Phenanthrene	2.2	U
100-52-7	Benzaldehyde	2.2	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U				

Worksheet #: 431023

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form3
Recovery Data Laboratory Limits
QC Batch: WMB60401

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M79144.D	WMB60401(MS)	7/12/2017 11:05:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	41.1952	0	100	41	20	160
Pyridine	1	49.8907	0	100	50	5	150
N-Nitrosodimethylamine	1	54.2312	0	100	54	50	150
Benzaldehyde	1	113.5047	0	100	114	20	150
Aniline	1	83.4145	0	100	83	20	150
Pentachloroethane	1	59.1029	0	100	59	50	130
bis(2-Chloroethyl)ether	1	69.8325	0	100	70	50	130
Phenol	1	35.4966	0	100	35	20	150
2-Chlorophenol	1	70.8359	0	100	71	70	130
N-Decane	1	56.3935	0	100	56	40	130
1,3-Dichlorobenzene	1	69.9595	0	100	70	50	130
1,4-Dichlorobenzene	1	74.5445	0	100	75	50	130
1,2-Dichlorobenzene	1	75.6932	0	100	76	50	130
Benzyl alcohol	1	76.6683	0	100	77	70	130
bis(2-chloroisopropyl)ether	1	66.3453	0	100	66	40	130
2-Methylphenol	1	66.8467	0	100	67	60	130
Acetophenone	1	81.614	0	100	82	50	130
Hexachloroethane	1	74.1259	0	100	74	50	130
N-Nitroso-di-n-propylamine	1	75.7077	0	100	76	50	130
3&4-Methylphenol	1	63.9226	0	100	64	50	130
Nitrobenzene	1	83.659	0	100	84	70	130
Isophorone	1	83.4059	0	100	83	70	130
2-Nitrophenol	1	87.1706	0	100	87	70	130
2,4-Dimethylphenol	1	78.5455	0	100	79	50	130
Benzoic Acid	1	16.8898	0	100	17*	20	130
bis(2-Chloroethoxy)methane	1	80.758	0	100	81	70	130
2,4-Dichlorophenol	1	86.2292	0	100	86	70	130
1,2,4-Trichlorobenzene	1	80.5997	0	100	81	50	130
Naphthalene	1	76.1083	0	100	76	70	130
4-Chloroaniline	1	133.3791	0	100	133	50	150
Hexachlorobutadiene	1	81.3838	0	100	81	70	130
Caprolactam	1	35.9983	0	100	36	20	130
4-Chloro-3-methylphenol	1	85.0465	0	100	85	70	130
2-Methylnaphthalene	1	83.2636	0	100	83	70	130
1-Methylnaphthalene	1	85.8851	0	100	86	70	130
1,1'-Biphenyl	1	84.0702	0	100	84	70	130
1,2,4,5-Tetrachlorobenzene	1	90.2905	0	100	90	70	130
Hexachlorocyclopentadiene	1	78.4038	0	100	78	20	130
2,4,6-Trichlorophenol	1	90.9639	0	100	91	70	130
2,4,5-Trichlorophenol	1	96.487	0	100	96	70	130
2-Chloronaphthalene	1	86.3309	0	100	86	70	130
1,4-Dimethylnaphthalene	1	81.5989	0	100	82	70	130
Diphenyl Ether	1	90.8328	0	100	91	70	130
2-Nitroaniline	1	96.9616	0	100	97	50	150
Coumarin	1	77.5494	0	100	78	70	130
Acenaphthylene	1	89.6983	0	100	90	70	130
Dimethylphthalate	1	89.3994	0	100	89	70	130
2,6-Dinitrotoluene	1	87.8377	0	100	88	70	130
Acenaphthene	1	89.5169	0	100	90	70	130
3-Nitroaniline	1	112.9414	0	100	113	50	150
2,4-Dinitrophenol	1	99.7106	0	100	100	20	150
Dibenzofuran	1	89.3087	0	100	89	70	130
2,4-Dinitrotoluene	1	92.0336	0	100	92	40	130
4-Nitrophenol	1	42.6511	0	100	43	20	150
2,3,4,6-Tetrachlorophenol	1	90.3354	0	100	90	70	130
Fluorene	1	89.7661	0	100	90	70	130
4-Chlorophenyl-phe ylether	1	87.5674	0	100	88	70	130
Diethylphthalate	1	92.219	0	100	92	50	130
4-Nitroaniline	1	102.4223	0	100	102	50	150
Atrazine	1	106.2559	0	100	106	50	130
4,6-Dinitro-2-methylphenol	1	103.6684	0	100	104	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB60401

n-Nitrosodiphenylamine	1	74.816	0	100	75	50	130
1,2-Diphenylhydrazine	1	86.2626	0	100	86	70	130
4-Bromophenyl-phenylether	1	92.0124	0	100	92	70	130
Hexachlorobenzene	1	91.815	0	100	92	70	130
N-Octadecane	1	94.6298	0	100	95	70	130
Pentachlorophenol	1	100.1441	0	100	100	40	130
Phenanthrene	1	90.4714	0	100	90	70	130
Anthracene	1	89.6776	0	100	90	70	130
Carbazole	1	98.653	0	100	99	70	130
Di-n-butylphthalate	1	100.0819	0	100	100	70	130
Fluoranthene	1	97.3509	0	100	97	70	130
Pyrene	1	86.0239	0	100	86	70	130
Benzidine	1	31.928	0	100	32	1	130
Butylbenzylphthalate	1	93.429	0	100	93	50	130
3,3'-Dichlorobenzidine	1	137.6892	0	100	138	1	150
Benzo[a]anthracene	1	94.1572	0	100	94	70	130
Chrysene	1	93.738	0	100	94	50	130
bis(2-Ethylhexyl)phthalate	1	98.822	0	100	99	70	130
Di-n-octylphthalate	1	89.9204	0	100	90	70	130
Benzo[b]fluoranthene	1	99.3398	0	100	99	70	130
Benzo[k]fluoranthene	1	94.9805	0	100	95	70	130
Benzo[a]pyrene	1	90.7393	0	100	91	70	130
Indeno[1,2,3-cd]pyrene	1	104.4036	0	100	104	70	130
Dibenzo[a,h]anthracene	1	101.6577	0	100	102	70	130
Benzo[g,h,i]perylene	1	96.2769	0	100	96	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB60402

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M63966.D	SMB60402(MS)	7/12/2017 2:26:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270D | Matrix: Soil | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	25.6538	0	50	51	1	150
N-Nitrosodimethylamine	1	32.5054	0	50	65	50	130
Benzaldehyde	1	54.5023	0	50	109	20	150
Aniline	1	24.9306	0	50	50	20	150
Pentachloroethane	1	30.8371	0	50	62	50	130
bis(2-Chloroethyl)ether	1	30.1274	0	50	60	50	130
Phenol	1	62.6642	0	100	63	20	150
2-Chlorophenol	1	64.8424	0	100	65	50	130
N-Decane	1	26.5815	0	50	53	20	130
1,3-Dichlorobenzene	1	29.2237	0	50	58*	60	130
1,4-Dichlorobenzene	1	32.3683	0	50	65	60	130
1,2-Dichlorobenzene	1	32.6591	0	50	65	50	130
Benzyl alcohol	1	32.8351	0	50	66	20	130
bis(2-chloroisopropyl)ether	1	29.9804	0	50	60	40	130
2-Methylphenol	1	71.2006	0	100	71	50	130
Acetophenone	1	42.1323	0	50	84	50	130
Hexachloroethane	1	31.7896	0	50	64	50	130
N-Nitroso-di-n-propylamine	1	31.8858	0	50	64	40	130
3&4-Methylphenol	1	72.7677	0	100	73	70	130
Nitrobenzene	1	33.5187	0	50	67*	70	130
Isophorone	1	33.9262	0	50	68	60	130
2-Nitrophenol	1	72.2482	0	100	72	70	130
2,4-Dimethylphenol	1	75.4202	0	100	75	50	130
Benzoic Acid	1	35.6864	0	100	36	20	130
bis(2-Chloroethoxy)methane	1	34.6339	0	50	69	60	130
2,4-Dichlorophenol	1	78.5276	0	100	79	70	130
1,2,4-Trichlorobenzene	1	33.6059	0	50	67	50	130
Naphthalene	1	32.6346	0	50	65	50	130
4-Chloroaniline	1	16.9181	0	50	34	10	150
Hexachlorobutadiene	1	33.6493	0	50	67	60	130
Caprolactam	1	34.1943	0	50	68	50	130
4-Chloro-3-methylphenol	1	73.6709	0	100	74	50	130
2-Methylnaphthalene	1	34.7898	0	50	70	70	130
1-Methylnaphthalene	1	42.8653	0	50	86	70	130
1,1'-Biphenyl	1	41.7167	0	50	83	60	130
1,2,4,5-Tetrachlorobenzene	1	45.4097	0	50	91	70	130
Hexachlorocyclopentadiene	1	35.3917	0	50	71	20	160
2,4,6-Trichlorophenol	1	82.0549	0	100	82	70	130
2,4,5-Trichlorophenol	1	83.3961	0	100	83	70	130
2-Chloronaphthalene	1	36.2948	0	50	73	70	130
1,4-Dimethylnaphthalene	1	42.1724	0	50	84	70	130
Diphenyl Ether	1	46.1775	0	50	92	70	130
2-Nitroaniline	1	36.7025	0	50	73	50	130
Coumarin	1	34.6429	0	50	69*	70	130
Acenaphthylene	1	36.4761	0	50	73	70	130
Dimethylphthalate	1	33.3102	0	50	67*	70	130
2,6-Dinitrotoluene	1	28.6799	0	50	57*	70	130
Acenaphthene	1	36.5291	0	50	73	50	130
3-Nitroaniline	1	19.244	0	50	38	10	130
2,4-Dinitrophenol	1	48.8418	0	100	49	20	150
Dibenzofuran	1	34.3498	0	50	69*	70	130
2,4-Dinitrotoluene	1	31.3217	0	50	63	40	130
4-Nitrophenol	1	64.8786	0	100	65	20	150
2,3,4,6-Tetrachlorophenol	1	66.373	0	100	66*	70	130
Fluorene	1	35.3602	0	50	71	50	130
4-Chlorophenyl-phenylether	1	33.848	0	50	68*	70	130
Diethylphthalate	1	33.2003	0	50	66*	70	130
4-Nitroaniline	1	27.0493	0	50	54	50	130
Atrazine	1	42.0582	0	50	84	50	130
4,6-Dinitro-2-methylphenol	1	66.0868	0	100	66*	70	130
n-Nitrosodiphenylamine	1	30.3856	0	50	61	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: SMB60402

1,2-Diphenylhydrazine	1	37.6734	0	50	75	70	130
4-Bromophenyl-phenylether	1	35.1569	0	50	70	70	130
Hexachlorobenzene	1	34.3773	0	50	69*	70	130
N-Octadecane	1	43.7484	0	50	87	70	130
Pentachlorophenol	1	69.37	0	100	69	40	130
Phenanthrene	1	34.7766	0	50	70	70	130
Anthracene	1	33.1037	0	50	66*	70	130
Carbazole	1	42.8572	0	50	86	70	130
Di-n-butylphthalate	1	33.2158	0	50	66*	70	130
Fluoranthene	1	32.6797	0	50	65*	70	130
Pyrene	1	39.4982	0	50	79	50	130
Benzidine	1	2.3646	0	50	4.7	1	130
Butylbenzylphthalate	1	32.7618	0	50	66	50	130
3,3'-Dichlorobenzidine	1	18.9059	0	50	38	10	130
Benzo[a]anthracene	1	34.5451	0	50	69*	70	130
Chrysene	1	35.3722	0	50	71	60	130
bis(2-Ethylhexyl)phthalate	1	32.3039	0	50	65*	70	130
Di-n-octylphthalate	1	35.0894	0	50	70	70	130
Benzo[b]fluoranthene	1	36.5252	0	50	73	70	130
Benzo[k]fluoranthene	1	38.1405	0	50	76	70	130
Benzo[a]pyrene	1	31.1138	0	50	62*	70	130
Indeno[1,2,3-cd]pyrene	1	31.9853	0	50	64*	70	130
Dibenzo[a,h]anthracene	1	31.2069	0	50	62	60	130
Benzo[g,h,i]perylene	1	30.0224	0	50	60*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB60422

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M79173.D	WMB60422(MS)	7/13/2017 2:42:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			
Method: 8270D		Matrix: Aqueous	QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	35.8593	0	100	36	20	160
Pyridine	1	19.0262	0	100	19	5	150
N-Nitrosodimethylamine	1	62.5947	0	100	63	50	150
Benzaldehyde	1	102.7697	0	100	103	20	150
Aniline	1	64.7315	0	100	65	20	150
Pentachloroethane	1	30.3125	0	100	30*	50	130
bis(2-Chloroethyl)ether	1	71.8314	0	100	72	50	130
Phenol	1	41.4208	0	100	41	20	150
2-Chlorophenol	1	76.6383	0	100	77	70	130
N-Decane	1	23.7114	0	100	24*	40	130
1,3-Dichlorobenzene	1	43.1336	0	100	43*	50	130
1,4-Dichlorobenzene	1	45.6618	0	100	46*	50	130
1,2-Dichlorobenzene	1	47.7499	0	100	48*	50	130
Benzyl alcohol	1	86.2215	0	100	86	70	130
bis(2-chloroisopropyl)ether	1	61.4833	0	100	61	40	130
2-Methylphenol	1	76.3478	0	100	76	60	130
Acetophenone	1	83.3747	0	100	83	50	130
Hexachloroethane	1	45.0782	0	100	45*	50	130
N-Nitroso-di-n-propylamine	1	84.712	0	100	85	50	130
3&4-Methylphenol	1	74.4696	0	100	74	50	130
Nitrobenzene	1	80.4182	0	100	80	70	130
Isophorone	1	87.5503	0	100	88	70	130
2-Nitrophenol	1	94.7122	0	100	95	70	130
2,4-Dimethylphenol	1	82.8644	0	100	83	50	130
Benzoic Acid	1	31.1364	0	100	31	20	130
bis(2-Chloroethoxy)methane	1	85.2841	0	100	85	70	130
2,4-Dichlorophenol	1	90.0823	0	100	90	70	130
1,2,4-Trichlorobenzene	1	55.4058	0	100	55	50	130
Naphthalene	1	55.3291	0	100	55*	70	130
4-Chloroaniline	1	137.2799	0	100	137	50	150
Hexachlorobutadiene	1	50.6226	0	100	51*	70	130
Caprolactam	1	53.2972	0	100	53	20	130
4-Chloro-3-methylphenol	1	93.499	0	100	93	70	130
2-Methylnaphthalene	1	79.1269	0	100	79	70	130
1-Methylnaphthalene	1	83.2764	0	100	83	70	130
1,1'-Biphenyl	1	85.444	0	100	85	70	130
1,2,4,5-Tetrachlorobenzene	1	86.4234	0	100	86	70	130
Hexachlorocyclopentadiene	1	55.6842	0	100	56	20	130
2,4,6-Trichlorophenol	1	102.1436	0	100	102	70	130
2,4,5-Trichlorophenol	1	102.6165	0	100	103	70	130
2-Chloronaphthalene	1	77.5214	0	100	78	70	130
1,4-Dimethylnaphthalene	1	82.2102	0	100	82	70	130
Diphenyl Ether	1	89.1096	0	100	89	70	130
2-Nitroaniline	1	99.3046	0	100	99	50	150
Coumarin	1	79.8506	0	100	80	70	130
Acenaphthylene	1	86.8865	0	100	87	70	130
Dimethylphthalate	1	96.3521	0	100	96	70	130
2,6-Dinitrotoluene	1	99.1107	0	100	99	70	130
Acenaphthene	1	88.0609	0	100	88	70	130
3-Nitroaniline	1	118.3717	0	100	118	50	150
2,4-Dinitrophenol	1	109.4803	0	100	109	20	150
Dibenzofuran	1	92.3975	0	100	92	70	130
2,4-Dinitrotoluene	1	104.4685	0	100	104	40	130
4-Nitrophenol	1	52.2333	0	100	52	20	150
2,3,4,6-Tetrachlorophenol	1	99.2145	0	100	99	70	130
Fluorene	1	95.1165	0	100	95	70	130
4-Chlorophenyl-phenylether	1	93.6256	0	100	94	70	130
Diethylphthalate	1	100.4	0	100	100	50	130
4-Nitroaniline	1	108.249	0	100	108	50	150
Atrazine	1	107.6121	0	100	108	50	130
4,6-Dinitro-2-methylphenol	1	110.3273	0	100	110	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB60422

n-Nitrosodiphenylamine	1	78.8072	0	100	79	50	130
1,2-Diphenylhydrazine	1	87.8318	0	100	88	70	130
4-Bromophenyl-phenylether	1	94.3988	0	100	94	70	130
Hexachlorobenzene	1	99.5124	0	100	100	70	130
N-Octadecane	1	96.2575	0	100	96	70	130
Pentachlorophenol	1	107.0381	0	100	107	40	130
Phenanthrene	1	95.0063	0	100	95	70	130
Anthracene	1	93.9432	0	100	94	70	130
Carbazole	1	97.8668	0	100	98	70	130
Di-n-butylphthalate	1	107.0379	0	100	107	70	130
Fluoranthene	1	98.6091	0	100	99	70	130
Pyrene	1	99.9281	0	100	100	70	130
Benzidine	1	14.327	0	100	14	1	130
Butylbenzylphthalate	1	108.6838	0	100	109	50	130
3,3'-Dichlorobenzidine	1	133.8741	0	100	134	1	150
Benzo[a]anthracene	1	101.2701	0	100	101	70	130
Chrysene	1	103.1888	0	100	103	50	130
bis(2-Ethylhexyl)phthalate	1	112.0974	0	100	112	70	130
Di-n-octylphthalate	1	102.5218	0	100	103	70	130
Benzo[b]fluoranthene	1	109.8303	0	100	110	70	130
Benzo[k]fluoranthene	1	98.7104	0	100	99	70	130
Benzo[a]pyrene	1	97.3548	0	100	97	70	130
Indeno[1,2,3-cd]pyrene	1	109.7293	0	100	110	70	130
Dibenzo[a,h]anthracene	1	108.0137	0	100	108	70	130
Benzo[g,h,i]perylene	1	101.4076	0	100	101	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB60426

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M63992.D	WMB60426(MS)	7/14/2017 12:14:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	44.2308	0	100	44	20	160
Pyridine	1	31.3822	0	100	31	5	150
N-Nitrosodimethylamine	1	56.0067	0	100	56	50	150
Benzaldehyde	1	110.037	0	100	110	20	150
Aniline	1	78.3422	0	100	78	20	150
Pentachloroethane	1	57.2626	0	100	57	50	130
bis(2-Chloroethyl)ether	1	69.3531	0	100	69	50	130
Phenol	1	36.6086	0	100	37	20	150
2-Chlorophenol	1	66.0719	0	100	66*	70	130
N-Decane	1	58.1781	0	100	58	40	130
1,3-Dichlorobenzene	1	63.5686	0	100	64	50	130
1,4-Dichlorobenzene	1	66.0331	0	100	66	50	130
1,2-Dichlorobenzene	1	67.1349	0	100	67	50	130
Benzyl alcohol	1	78.6777	0	100	79	70	130
bis(2-chloroisopropyl)ether	1	66.1922	0	100	66	40	130
2-Methylphenol	1	65.4554	0	100	65	60	130
Acetophenone	1	82.8449	0	100	83	50	130
Hexachloroethane	1	66.9097	0	100	67	50	130
N-Nitroso-di-n-propylamine	1	78.307	0	100	78	50	130
3&4-Methylphenol	1	66.5039	0	100	67	50	130
Nitrobenzene	1	73.1071	0	100	73	70	130
Isophorone	1	78.2457	0	100	78	70	130
2-Nitrophenol	1	75.5049	0	100	76	70	130
2,4-Dimethylphenol	1	74.7129	0	100	75	50	130
Benzoic Acid	1	19.4274	0	100	19*	20	130
bis(2-Chloroethoxy)methane	1	75.8008	0	100	76	70	130
2,4-Dichlorophenol	1	78.8064	0	100	79	70	130
1,2,4-Trichlorobenzene	1	68.7878	0	100	69	50	130
Naphthalene	1	66.4952	0	100	66*	70	130
4-Chloroaniline	1	128.0718	0	100	128	50	150
Hexachlorobutadiene	1	68.427	0	100	68*	70	130
Caprolactam	1	32.2213	0	100	32	20	130
4-Chloro-3-methylphenol	1	80.3877	0	100	80	70	130
2-Methylnaphthalene	1	78.8319	0	100	79	70	130
1-Methylnaphthalene	1	79.5635	0	100	80	70	130
1,1'-Biphenyl	1	78.5026	0	100	79	70	130
1,2,4,5-Tetrachlorobenzene	1	80.7974	0	100	81	70	130
Hexachlorocyclopentadiene	1	71.2628	0	100	71	20	130
2,4,6-Trichlorophenol	1	89.9994	0	100	90	70	130
2,4,5-Trichlorophenol	1	81.9714	0	100	82	70	130
2-Chloronaphthalene	1	76.0475	0	100	76	70	130
1,4-Dimethylnaphthalene	1	76.7246	0	100	77	70	130
Diphenyl Ether	1	82.4174	0	100	82	70	130
2-Nitroaniline	1	94.2997	0	100	94	50	150
Coumarin	1	70.5872	0	100	71	70	130
Acenaphthylene	1	81.3724	0	100	81	70	130
Dimethylphthalate	1	81.4838	0	100	81	70	130
2,6-Dinitrotoluene	1	80.1825	0	100	80	70	130
Acenaphthene	1	81.8785	0	100	82	70	130
3-Nitroaniline	1	112.5523	0	100	113	50	150
2,4-Dinitrophenol	1	77.5476	0	100	78	20	150
Dibenzofuran	1	82.337	0	100	82	70	130
2,4-Dinitrotoluene	1	78.6771	0	100	79	40	130
4-Nitrophenol	1	41.2357	0	100	41	20	150
2,3,4,6-Tetrachlorophenol	1	79.2201	0	100	79	70	130
Fluorene	1	83.3447	0	100	83	70	130
4-Chlorophenyl-phenylether	1	79.6143	0	100	80	70	130
Diethylphthalate	1	85.2147	0	100	85	50	130
4-Nitroaniline	1	93.0549	0	100	93	50	150
Atrazine	1	100.628	0	100	101	50	130
4,6-Dinitro-2-methylphenol	1	85.1369	0	100	85	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB60426

n-Nitrosodiphenylamine	1	67.7169	0	100	68	50	130
1,2-Diphenylhydrazine	1	82.2799	0	100	82	70	130
4-Bromophenyl-phenylether	1	79.4664	0	100	79	70	130
Hexachlorobenzene	1	80.5217	0	100	81	70	130
N-Octadecane	1	96.3191	0	100	96	70	130
Pentachlorophenol	1	88.2637	0	100	88	40	130
Phenanthrene	1	79.7865	0	100	80	70	130
Anthracene	1	80.4885	0	100	80	70	130
Carbazole	1	87.659	0	100	88	70	130
Di-n-butylphthalate	1	84.957	0	100	85	70	130
Fluoranthene	1	86.2436	0	100	86	70	130
Pyrene	1	79.9234	0	100	80	70	130
Benzidine	1	18.9776	0	100	19	1	130
Butylbenzylphthalate	1	77.7278	0	100	78	50	130
3,3'-Dichlorobenzidine	1	119.6159	0	100	120	1	150
Benzo[a]anthracene	1	81.985	0	100	82	70	130
Chrysene	1	83.4412	0	100	83	50	130
bis(2-Ethylhexyl)phthalate	1	84.6071	0	100	85	70	130
Di-n-octylphthalate	1	85.2458	0	100	85	70	130
Benzo[b]fluoranthene	1	82.1202	0	100	82	70	130
Benzo[k]fluoranthene	1	81.419	0	100	81	70	130
Benzo[a]pyrene	1	79.9223	0	100	80	70	130
Indeno[1,2,3-cd]pyrene	1	81.4262	0	100	81	70	130
Dibenzo[a,h]anthracene	1	80.2303	0	100	80	70	130
Benzo[g,h,i]perylene	1	76.0137	0	100	76	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB60401

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M100520.D	AC98905-010(MSD)	7/12/2017 5:13:00 PM
Duplicate(If applicable):	5M100519.D	AC98905-010(MS)	7/12/2017 4:49:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	56.3313	56.487	0.28	20
Pyridine	1	41.0276	26.737	42*	40
N-Nitrosodimethylamine	1	71.1149	70.1488	1.4	20
Benzaldehyde	1	122.7349	119.145	3	20
Aniline	1	62.2443	55.4046	12	20
Pentachloroethane	1	66.047	65.9104	0.21	20
bis(2-Chloroethyl)ether	1	81.9111	81.2865	0.77	20
Phenol	1	53.9144	53.4969	0.78	40
2-Chlorophenol	1	78.6804	77.9929	0.88	40
N-Decane	1	62.4687	60.4397	3.3	20
1,3-Dichlorobenzene	1	64.7676	62.9424	2.9	20
1,4-Dichlorobenzene	1	65.9018	64.5267	2.1	40
1,2-Dichlorobenzene	1	67.2852	68.0101	1.1	20
Benzyl alcohol	1	81.9523	80.3736	1.9	20
bis(2-chloroisopropyl)ether	1	67.6225	69.4625	2.7	20
2-Methylphenol	1	76.7013	77.0942	0.51	40
Acetophenone	1	83.3275	82.9658	0.44	20
Hexachloroethane	1	64.0493	64.956	1.4	40
N-Nitroso-di-n-propylamine	1	75.8356	74.8061	1.4	40
3&4-Methylphenol	1	73.0717	73.3851	0.43	40
Nitrobenzene	1	90.9363	89.7069	1.4	40
Isophorone	1	88.2849	86.6284	1.9	20
2-Nitrophenol	1	96.2609	91.3311	5.3	20
2,4-Dimethylphenol	1	78.7403	75.7789	3.8	40
Benzoic Acid	1	54.0716	52.0651	3.8	20
bis(2-Chloroethoxy)methane	1	84.3998	82.3493	2.5	20
2,4-Dichlorophenol	1	91.3165	89.4234	2.1	20
1,2,4-Trichlorobenzene	1	80.3431	78.8229	1.9	40
Naphthalene	1	80.8015	80.7408	0.08	40
4-Chloroaniline	1	72.9571	72.5945	0.5	20
Hexachlorobutadiene	1	78.1305	78.8425	0.91	40
Caprolactam	1	53.7521	53.3701	0.71	20
4-Chloro-3-methylphenol	1	93.1949	90.8578	2.5	40
2-Methylnaphthalene	1	85.2901	84.196	1.3	20
1-Methylnaphthalene	1	90.1898	90.1648	0.03	20
1,1'-Biphenyl	1	90.1239	86.011	4.7	20
1,2,4,5-Tetrachlorobenzene	1	89.1583	88.1257	1.2	20
Hexachlorocyclopentadiene	1	85.5204	83.7436	2.1	20
2,4,6-Trichlorophenol	1	94.9946	95.8679	0.92	40
2,4,5-Trichlorophenol	1	98.3315	99.5548	1.2	40
2-Chloronaphthalene	1	88.8315	86.4334	2.7	20
1,4-Dimethylnaphthalene	1	80.7141	80.0339	0.85	20
Diphenyl Ether	1	90.7896	89.008	2	20
2-Nitroaniline	1	96.4632	94.3908	2.2	20
Coumarin	1	79.2557	77.4527	2.3	20
Acenaphthylene	1	89.629	88.1746	1.6	20
Dimethylphthalate	1	93.1481	91.5349	1.7	20
2,6-Dinitrotoluene	1	90.0704	85.2429	5.5	20
Acenaphthene	1	89.9192	91.0864	1.3	40
3-Nitroaniline	1	79.9347	81.1985	1.6	20
2,4-Dinitrophenol	1	125.2511	117.2893	6.6	20
Dibenzofuran	1	91.6713	92.1348	0.5	20
2,4-Dinitrotoluene	1	95.3888	91.9944	3.6	40
4-Nitrophenol	1	63.1548	61.7336	2.3	40
2,3,4,6-Tetrachlorophenol	1	89.5513	88.4237	1.3	20
Fluorene	1	88.8286	88.4535	0.42	40
4-Chlorophenyl-phenylether	1	88.8177	87.6129	1.4	20
Diethylphthalate	1	96.4825	93.7028	2.9	20
4-Nitroaniline	1	87.6811	86.8693	0.93	20
Atrazine	1	102.2125	99.5733	2.6	20
4,6-Dinitro-2-methylphenol	1	119.7626	116.3713	2.9	20
n-Nitrosodiphenylamine	1	75.1081	77.4764	3.1	20
1,2-Diphenylhydrazine	1	86.5237	93.7597	8	20

Form3
RPD Data Laboratory Limits
QC Batch: WMB60401

4-Bromophenyl-phenylether	1	90.2015	92.7346	2.8	20
Hexachlorobenzene	1	90.6912	91.4218	0.8	40
N-Octadecane	1	90.7843	90.735	0.05	20
Pentachlorophenol	1	114.2287	113.4252	0.71	40
Phenanthrene	1	90.5939	89.5478	1.2	20
Anthracene	1	91.716	88.4343	3.6	20
Carbazole	1	96.0689	93.6893	2.5	20
Di-n-butylphthalate	1	98.3752	98.7773	0.41	20
Fluoranthene	1	93.8895	94.3921	0.53	20
Pyrene	1	92.2857	91.2266	1.2	40
Benzidine	1	13.1544	3.4458	117 *	20
Butylbenzylphthalate	1	94.1371	93.9475	0.2	40
3,3'-Dichlorobenzidine	1	95.6236	92.3289	3.5	20
Benzo[a]anthracene	1	95.2586	94.0694	1.3	20
Chrysene	1	95.7165	96.2861	0.59	20
bis(2-Ethylhexyl)phthalate	1	94.5812	93.3454	1.3	20
Di-n-octylphthalate	1	101.0446	95.1711	6	20
Benzo[b]fluoranthene	1	97.9842	95.0983	3	20
Benzo[k]fluoranthene	1	100.9786	96.4191	4.6	20
Benzo[a]pyrene	1	92.6458	88.8755	4.2	20
Indeno[1,2,3-cd]pyrene	1	100.9425	96.6727	4.3	20
Dibenzo[a,h]anthracene	1	98.7804	94.6918	4.2	20
Benzo[g,h,i]perylene	1	95.4887	91.2156	4.6	20

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data Laboratory Limits
QC Batch: SMB60402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M63981.D	AC98893-003(MS)	7/12/2017 8:05:00 PM
Non Spike(If applicable):	10M63980.D	AC98893-003	7/12/2017 7:43:00 PM
Inst Blank(If applicable):			

Method: 8270D | Matrix: Soil | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	23.1882	0	50	46	1	150
N-Nitrosodimethylamine	1	31.7381	0	50	63	50	130
Benzaldehyde	1	51.3754	0	50	103	20	150
Aniline	1	30.3623	0	50	61	20	150
Pentachloroethane	1	28.4484	0	50	57	50	130
bis(2-Chloroethyl)ether	1	29.321	0	50	59	50	130
Phenol	1	60.8306	0	100	61	20	150
2-Chlorophenol	1	63.5893	0	100	64	50	130
N-Decane	1	23.0326	0	50	46	20	130
1,3-Dichlorobenzene	1	28.5834	0	50	57*	60	130
1,4-Dichlorobenzene	1	30.0079	0	50	60	60	130
1,2-Dichlorobenzene	1	30.1274	0	50	60	50	130
Benzyl alcohol	1	28.533	0	50	57	20	130
bis(2-chloroisopropyl)ether	1	28.1167	0	50	56	40	130
2-Methylphenol	1	66.7714	0	100	67	50	130
Acetophenone	1	36.996	0	50	74	50	130
Hexachloroethane	1	30.876	0	50	62	50	130
N-Nitroso-di-n-propylamine	1	30.2735	0	50	61	40	130
3&4-Methylphenol	1	69.2613	0	100	69*	70	130
Nitrobenzene	1	33.655	0	50	67*	70	130
Isophorone	1	32.6252	0	50	65	60	130
2-Nitrophenol	1	75.9086	0	100	76	70	130
2,4-Dimethylphenol	1	69.5822	0	100	70	50	130
Benzoic Acid	1	47.8234	0	100	48	20	130
bis(2-Chloroethoxy)methane	1	32.9384	0	50	66	60	130
2,4-Dichlorophenol	1	73.9705	0	100	74	70	130
1,2,4-Trichlorobenzene	1	31.2757	0	50	63	50	130
Naphthalene	1	31.102	0	50	62	50	130
4-Chloroaniline	1	26.4173	0	50	53	10	150
Hexachlorobutadiene	1	31.4156	0	50	63	60	130
Caprolactam	1	33.0727	0	50	66	50	130
4-Chloro-3-methylphenol	1	70.9222	0	100	71	50	130
2-Methylnaphthalene	1	32.4629	0	50	65*	70	130
1-Methylnaphthalene	1	38.2877	0	50	77	70	130
1,1'-Biphenyl	1	36.7343	0	50	73	60	130
1,2,4,5-Tetrachlorobenzene	1	40.9072	0	50	82	70	130
Hexachlorocyclopentadiene	1	34.6988	0	50	69	20	160
2,4,6-Trichlorophenol	1	77.8085	0	100	78	70	130
2,4,5-Trichlorophenol	1	81.3553	0	100	81	70	130
2-Chloronaphthalene	1	34.7635	0	50	70	70	130
1,4-Dimethylnaphthalene	1	37.9657	0	50	76	70	130
Diphenyl Ether	1	41.6719	0	50	83	70	130
2-Nitroaniline	1	38.9849	0	50	78	50	130
Coumarin	1	31.8801	0	50	64*	70	130
Acenaphthylene	1	35.5451	0	50	71	70	130
Dimethylphthalate	1	33.0309	0	50	66*	70	130
2,6-Dinitrotoluene	1	32.0359	0	50	64*	70	130
Acenaphthene	1	36.3467	0	50	73	50	130
3-Nitroaniline	1	27.0619	0	50	54	10	130
2,4-Dinitrophenol	1	57.7854	0	100	58	20	150
Dibenzofuran	1	33.6247	0	50	67*	70	130
2,4-Dinitrotoluene	1	35.0173	0	50	70	40	130
4-Nitrophenol	1	67.4957	0	100	67	20	150
2,3,4,6-Tetrachlorophenol	1	68.5791	0	100	69*	70	130
Fluorene	1	34.8081	0	50	70	50	130
4-Chlorophenyl-phenylether	1	33.0317	0	50	66*	70	130
Diethylphthalate	1	33.5204	0	50	67*	70	130
4-Nitroaniline	1	29.0058	0	50	58	50	130
Atrazine	1	40.0696	0	50	80	50	130
4,6-Dinitro-2-methylphenol	1	76.0371	0	100	76	70	130
n-Nitrosodiphenylamine	1	30.4324	0	50	61	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB60402

1,2-Diphenylhydrazine	1	37.4311	0	50	75	70	130
4-Bromophenyl-phenylether	1	35.3074	0	50	71	70	130
Hexachlorobenzene	1	33.9649	0	50	68*	70	130
N-Octadecane	1	40.707	0	50	81	70	130
Pentachlorophenol	1	76.7523	0	100	77	40	130
Phenanthrene	1	34.604	0	50	69*	70	130
Anthracene	1	34.0523	0	50	68*	70	130
Carbazole	1	40.3036	0	50	81	70	130
Di-n-butylphthalate	1	34.5263	0	50	69*	70	130
Fluoranthene	1	32.8512	0	50	66*	70	130
Pyrene	1	40.4779	0	50	81	50	130
Benzidine	1	4.052	0	50	8.1	1	130
Butylbenzylphthalate	1	34.8951	0	50	70	50	130
3,3'-Dichlorobenzidine	1	30.6466	0	50	61	10	130
Benzo[a]anthracene	1	35.528	0	50	71	70	130
Chrysene	1	35.0544	0	50	70	60	130
bis(2-Ethylhexyl)phthalate	1	35.5836	0	50	71	70	130
Di-n-octylphthalate	1	38.5139	0	50	77	70	130
Benzo[b]fluoranthene	1	35.8737	0	50	72	70	130
Benzo[k]fluoranthene	1	37.9396	0	50	76	70	130
Benzo[a]pyrene	1	33.651	0	50	67*	70	130
Indeno[1,2,3-cd]pyrene	1	32.7518	0	50	66*	70	130
Dibenzo[a,h]anthracene	1	31.5979	0	50	63	60	130
Benzo[g,h,i]perylene	1	31.1264	0	50	62*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB60402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M63982.D	AC98893-003(MSD)	7/12/2017 8:28:00 PM
Non Spike(If applicable):	10M63980.D	AC98893-003	7/12/2017 7:43:00 PM
Inst Blank(If applicable):			

Method: 8270D | Matrix: Soil | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	25.3345	0	50	51	1	150
N-Nitrosodimethylamine	1	35.4699	0	50	71	50	130
Benzaldehyde	1	53.5783	0	50	107	20	150
Aniline	1	34.2968	0	50	69	20	150
Pentachloroethane	1	29.5788	0	50	59	50	130
bis(2-Chloroethyl)ether	1	32.9589	0	50	66	50	130
Phenol	1	65.8666	0	100	66	20	150
2-Chlorophenol	1	67.4821	0	100	67	50	130
N-Decane	1	25.2563	0	50	51	20	130
1,3-Dichlorobenzene	1	31.7333	0	50	63	60	130
1,4-Dichlorobenzene	1	32.4568	0	50	65	60	130
1,2-Dichlorobenzene	1	32.7186	0	50	65	50	130
Benzyl alcohol	1	32.3881	0	50	65	20	130
bis(2-chloroisopropyl)ether	1	30.4826	0	50	61	40	130
2-Methylphenol	1	69.9183	0	100	70	50	130
Acetophenone	1	39.0198	0	50	78	50	130
Hexachloroethane	1	32.54	0	50	65	50	130
N-Nitroso-di-n-propylamine	1	33.578	0	50	67	40	130
3&4-Methylphenol	1	72.7441	0	100	73	70	130
Nitrobenzene	1	36.2818	0	50	73	70	130
Isophorone	1	35.4536	0	50	71	60	130
2-Nitrophenol	1	76.2037	0	100	76	70	130
2,4-Dimethylphenol	1	70.941	0	100	71	50	130
Benzoic Acid	1	55.8297	0	100	56	20	130
bis(2-Chloroethoxy)methane	1	35.4878	0	50	71	60	130
2,4-Dichlorophenol	1	77.3979	0	100	77	70	130
1,2,4-Trichlorobenzene	1	33.784	0	50	68	50	130
Naphthalene	1	32.7809	0	50	66	50	130
4-Chloroaniline	1	32.3434	0	50	65	10	150
Hexachlorobutadiene	1	33.7924	0	50	68	60	130
Caprolactam	1	37.2218	0	50	74	50	130
4-Chloro-3-methylphenol	1	73.6261	0	100	74	50	130
2-Methylnaphthalene	1	35.4989	0	50	71	70	130
1-Methylnaphthalene	1	39.5864	0	50	79	70	130
1,1'-Biphenyl	1	38.7185	0	50	77	60	130
1,2,4,5-Tetrachlorobenzene	1	41.2746	0	50	83	70	130
Hexachlorocyclopentadiene	1	33.9932	0	50	68	20	160
2,4,6-Trichlorophenol	1	78.4315	0	100	78	70	130
2,4,5-Trichlorophenol	1	81.9953	0	100	82	70	130
2-Chloronaphthalene	1	36.8536	0	50	74	70	130
1,4-Dimethylnaphthalene	1	38.595	0	50	77	70	130
Diphenyl Ether	1	41.6918	0	50	83	70	130
2-Nitroaniline	1	41.6711	0	50	83	50	130
Coumarin	1	33.0355	0	50	66*	70	130
Acenaphthylene	1	38.1443	0	50	76	70	130
Dimethylphthalate	1	35.6956	0	50	71	70	130
2,6-Dinitrotoluene	1	35.9022	0	50	72	70	130
Acenaphthene	1	38.0117	0	50	76	50	130
3-Nitroaniline	1	32.0772	0	50	64*	70	130
2,4-Dinitrophenol	1	61.9644	0	100	62	20	150
Dibenzofuran	1	35.9527	0	50	72	70	130
2,4-Dinitrotoluene	1	38.9555	0	50	78	40	130
4-Nitrophenol	1	68.0855	0	100	68	20	150
2,3,4,6-Tetrachlorophenol	1	68.8967	0	100	69*	70	130
Fluorene	1	37.6286	0	50	75	50	130
4-Chlorophenyl-phenylether	1	35.9628	0	50	72	70	130
Diethylphthalate	1	36.6649	0	50	73	70	130
4-Nitroaniline	1	32.6274	0	50	65	50	130
Atrazine	1	42.2851	0	50	85	50	130
4,6-Dinitro-2-methylphenol	1	79.0884	0	100	79	70	130
n-Nitrosodiphenylamine	1	32.6623	0	50	65	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: SMB60402

1,2-Diphenylhydrazine	1	40.1346	0	50	80	70	130
4-Bromophenyl-phenylether	1	38.9989	0	50	78	70	130
Hexachlorobenzene	1	37.1144	0	50	74	70	130
N-Octadecane	1	41.2474	0	50	82	70	130
Pentachlorophenol	1	77.6172	0	100	78	40	130
Phenanthrene	1	37.4289	0	50	75	70	130
Anthracene	1	36.8523	0	50	74	70	130
Carbazole	1	41.3324	0	50	83	70	130
Di-n-butylphthalate	1	37.599	0	50	75	70	130
Fluoranthene	1	36.6997	0	50	73	70	130
Pyrene	1	45.0803	0	50	90	50	130
Benzidine	1	4.0367	0	50	8.1	1	130
Butylbenzylphthalate	1	39.2905	0	50	79	50	130
3,3'-Dichlorobenzidine	1	37.3075	0	50	75	10	130
Benzo[a]anthracene	1	39.4739	0	50	79	70	130
Chrysene	1	40.3184	0	50	81	60	130
bis(2-Ethylhexyl)phthalate	1	40.6799	0	50	81	70	130
Di-n-octylphthalate	1	44.6721	0	50	89	70	130
Benzo[b]fluoranthene	1	45.4635	0	50	91	70	130
Benzo[k]fluoranthene	1	38.6946	0	50	77	70	130
Benzo[a]pyrene	1	37.9226	0	50	76	70	130
Indeno[1,2,3-cd]pyrene	1	38.7386	0	50	77	70	130
Dibenzo[a,h]anthracene	1	37.5564	0	50	75	60	130
Benzo[g,h,i]perylene	1	36.8397	0	50	74	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB60422

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M79176.D	AC98939-002(MS:AC98939-001	7/13/2017 3:53:00 PM
Non Spike(If applicable):	9M79175.D	AC98939-001	7/13/2017 3:29:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	33.086	0	100	33	20	160
Pyridine	1	15.804	0	100	16	5	150
N-Nitrosodimethylamine	1	58.8832	0	100	59	50	150
Benzaldehyde	1	71.6855	0	100	72	20	150
Aniline	1	58.9067	0	100	59	20	150
Pentachloroethane	1	45.0665	0	100	45*	50	130
bis(2-Chloroethyl)ether	1	70.936	0	100	71	50	130
Phenol	1	38.7724	0	100	39	20	150
2-Chlorophenol	1	71.8497	0	100	72	70	130
N-Decane	1	37.6006	0	100	38*	40	130
1,3-Dichlorobenzene	1	39.0196	0	100	39*	50	130
1,4-Dichlorobenzene	1	41.0935	0	100	41*	50	130
1,2-Dichlorobenzene	1	44.2299	0	100	44*	50	130
Benzyl alcohol	1	79.6484	0	100	80	70	130
bis(2-chloroisopropyl)ether	1	64.6023	0	100	65	40	130
2-Methylphenol	1	70.7116	0	100	71	60	130
Acetophenone	1	80.7189	0	100	81	50	130
Hexachloroethane	1	38.3102	0	100	38*	50	130
N-Nitroso-di-n-propylamine	1	82.5198	0	100	83	50	130
3&4-Methylphenol	1	70.54	0	100	71	50	130
Nitrobenzene	1	80.3116	0	100	80	70	130
Isophorone	1	86.0582	0	100	86	70	130
2-Nitrophenol	1	86.4882	0	100	86	70	130
2,4-Dimethylphenol	1	78.3552	0	100	78	50	130
Benzoic Acid	1	17.147	0	100	17*	20	130
bis(2-Chloroethoxy)methane	1	82.1806	0	100	82	70	130
2,4-Dichlorophenol	1	84.5751	0	100	85	70	130
1,2,4-Trichlorobenzene	1	61.8191	0	100	62	50	130
Naphthalene	1	62.96	0	100	63*	70	130
4-Chloroaniline	1	119.2857	0	100	119	50	150
Hexachlorobutadiene	1	51.1483	0	100	51*	70	130
Caprolactam	1	50.8104	0	100	51	20	130
4-Chloro-3-methylphenol	1	91.158	0	100	91	70	130
2-Methylnaphthalene	1	82.0089	0	100	82	70	130
1-Methylnaphthalene	1	86.027	0	100	86	70	130
1,1'-Biphenyl	1	87.177	0	100	87	70	130
1,2,4,5-Tetrachlorobenzene	1	87.6278	0	100	88	70	130
Hexachlorocyclopentadiene	1	68.7633	0	100	69	20	130
2,4,6-Trichlorophenol	1	98.9882	0	100	99	70	130
2,4,5-Trichlorophenol	1	99.1819	0	100	99	70	130
2-Chloronaphthalene	1	89.0174	0	100	89	70	130
1,4-Dimethylnaphthalene	1	84.0101	0	100	84	70	130
Diphenyl Ether	1	91.0952	0	100	91	70	130
2-Nitroaniline	1	101.6999	0	100	102	50	150
Coumarin	1	80.4442	0	100	80	70	130
Acenaphthylene	1	95.3434	0	100	95	70	130
Dimethylphthalate	1	99.5223	0	100	100	70	130
2,6-Dinitrotoluene	1	98.9949	0	100	99	70	130
Acenaphthene	1	97.3074	0	100	97	70	130
3-Nitroaniline	1	110.995	0	100	111	50	150
2,4-Dinitrophenol	1	108.9885	0	100	109	20	150
Dibenzofuran	1	91.9638	0	100	92	70	130
2,4-Dinitrotoluene	1	105.4217	0	100	105	40	130
4-Nitrophenol	1	51.7318	0	100	52	20	150
2,3,4,6-Tetrachlorophenol	1	100.1156	0	100	100	70	130
Fluorene	1	100.7473	0	100	101	70	130
4-Chlorophenyl-phenylether	1	97.3802	0	100	97	70	130
Diethylphthalate	1	105.1935	0	100	105	50	130
4-Nitroaniline	1	101.4564	0	100	101	50	150
Atrazine	1	112.8858	0	100	113	50	130
4,6-Dinitro-2-methylphenol	1	111.2043	0	100	111	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB60422

n-Nitrosodiphenylamine	1	81.2809	0	100	81	50	130
1,2-Diphenylhydrazine	1	92.3153	0	100	92	70	130
4-Bromophenyl-phenylether	1	98.5125	0	100	99	70	130
Hexachlorobenzene	1	100.6891	0	100	101	70	130
N-Octadecane	1	100.2104	0	100	100	70	130
Pentachlorophenol	1	107.3001	0	100	107	40	130
Phenanthrene	1	99.0455	0	100	99	70	130
Anthracene	1	97.6847	0	100	98	70	130
Carbazole	1	103.1414	0	100	103	70	130
Di-n-butylphthalate	1	111.4232	0	100	111	70	130
Fluoranthene	1	105.5458	0	100	106	70	130
Pyrene	1	99.0477	0	100	99	70	130
Benzidine	1	2.2317	0	100	2.2	1	130
Butylbenzylphthalate	1	108.4578	0	100	108	50	130
3,3'-Dichlorobenzidine	1	104.8494	0	100	105	1	150
Benzo[a]anthracene	1	102.798	0	100	103	70	130
Chrysene	1	105.8407	0	100	106	50	130
bis(2-Ethylhexyl)phthalate	1	112.3536	0	100	112	70	130
Di-n-octylphthalate	1	102.9375	0	100	103	70	130
Benzo[b]fluoranthene	1	107.1624	0	100	107	70	130
Benzo[k]fluoranthene	1	106.629	0	100	107	70	130
Benzo[a]pyrene	1	99.555	0	100	100	70	130
Indeno[1,2,3-cd]pyrene	1	110.144	0	100	110	70	130
Dibenzo[a,h]anthracene	1	108.1913	0	100	108	70	130
Benzo[g,h,i]perylene	1	102.9871	0	100	103	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: WMB60422

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M79177.D	AC98939-003(MSD:AC98939-0	7/13/2017 4:17:00 PM
Non Spike(If applicable):	9M79175.D	AC98939-001	7/13/2017 3:29:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	34.7491	0	100	35	20	160
Pyridine	1	23.1876	0	100	23	5	150
N-Nitrosodimethylamine	1	62.3983	0	100	62	50	150
Benzaldehyde	1	82.2946	0	100	82	20	150
Aniline	1	69.8758	0	100	70	20	150
Pentachloroethane	1	51.8381	0	100	52	50	130
bis(2-Chloroethyl)ether	1	76.5871	0	100	77	50	130
Phenol	1	40.0559	0	100	40	20	150
2-Chlorophenol	1	75.7679	0	100	76	70	130
N-Decane	1	46.096	0	100	46	40	130
1,3-Dichlorobenzene	1	53.2533	0	100	53	50	130
1,4-Dichlorobenzene	1	52.6341	0	100	53	50	130
1,2-Dichlorobenzene	1	55.571	0	100	56	50	130
Benzyl alcohol	1	80.9082	0	100	81	70	130
bis(2-chloroisopropyl)ether	1	66.945	0	100	67	40	130
2-Methylphenol	1	71.2786	0	100	71	60	130
Acetophenone	1	81.3392	0	100	81	50	130
Hexachloroethane	1	51.3679	0	100	51	50	130
N-Nitroso-di-n-propylamine	1	82.4916	0	100	82	50	130
3&4-Methylphenol	1	69.8976	0	100	70	50	130
Nitrobenzene	1	83.5565	0	100	84	70	130
Isophorone	1	86.8169	0	100	87	70	130
2-Nitrophenol	1	87.5795	0	100	88	70	130
2,4-Dimethylphenol	1	79.2381	0	100	79	50	130
Benzoic Acid	1	23.6022	0	100	24	20	130
bis(2-Chloroethoxy)methane	1	83.4297	0	100	83	70	130
2,4-Dichlorophenol	1	85.5033	0	100	86	70	130
1,2,4-Trichlorobenzene	1	68.6886	0	100	69	50	130
Naphthalene	1	68.434	0	100	68 *	70	130
4-Chloroaniline	1	121.4668	0	100	121	50	150
Hexachlorobutadiene	1	60.7886	0	100	61 *	70	130
Caprolactam	1	50.2168	0	100	50	20	130
4-Chloro-3-methylphenol	1	90.257	0	100	90	70	130
2-Methylnaphthalene	1	83.2691	0	100	83	70	130
1-Methylnaphthalene	1	86.8094	0	100	87	70	130
1,1'-Biphenyl	1	87.492	0	100	87	70	130
1,2,4,5-Tetrachlorobenzene	1	87.5299	0	100	88	70	130
Hexachlorocyclopentadiene	1	72.9748	0	100	73	20	130
2,4,6-Trichlorophenol	1	94.1216	0	100	94	70	130
2,4,5-Trichlorophenol	1	99.1717	0	100	99	70	130
2-Chloronaphthalene	1	88.6204	0	100	89	70	130
1,4-Dimethylnaphthalene	1	83.0796	0	100	83	70	130
Diphenyl Ether	1	90.794	0	100	91	70	130
2-Nitroaniline	1	98.3653	0	100	98	50	150
Coumarin	1	79.123	0	100	79	70	130
Acenaphthylene	1	93.887	0	100	94	70	130
Dimethylphthalate	1	95.4303	0	100	95	70	130
2,6-Dinitrotoluene	1	97.7121	0	100	98	70	130
Acenaphthene	1	95.536	0	100	96	70	130
3-Nitroaniline	1	111.9436	0	100	112	50	150
2,4-Dinitrophenol	1	109.952	0	100	110	20	150
Dibenzofuran	1	89.7823	0	100	90	70	130
2,4-Dinitrotoluene	1	101.5189	0	100	102	40	130
4-Nitrophenol	1	50.0055	0	100	50	20	150
2,3,4,6-Tetrachlorophenol	1	95.9991	0	100	96	70	130
Fluorene	1	97.6216	0	100	98	70	130
4-Chlorophenyl-phenylether	1	95.9433	0	100	96	70	130
Diethylphthalate	1	99.8673	0	100	100	50	130
4-Nitroaniline	1	104.0467	0	100	104	50	150
Atrazine	1	104.8501	0	100	105	50	130
4,6-Dinitro-2-methylphenol	1	109.6779	0	100	110	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB60422

n-Nitrosodiphenylamine	1	79.6551	0	100	80	50	130
1,2-Diphenylhydrazine	1	91.3896	0	100	91	70	130
4-Bromophenyl-phenylether	1	96.0929	0	100	96	70	130
Hexachlorobenzene	1	99.4928	0	100	99	70	130
N-Octadecane	1	96.8351	0	100	97	70	130
Pentachlorophenol	1	102.3454	0	100	102	40	130
Phenanthrene	1	95.1758	0	100	95	70	130
Anthracene	1	94.3294	0	100	94	70	130
Carbazole	1	99.3307	0	100	99	70	130
Di-n-butylphthalate	1	107.9494	0	100	108	70	130
Fluoranthene	1	100.3932	0	100	100	70	130
Pyrene	1	98.9273	0	100	99	70	130
Benzidine	1	7.8688	0	100	7.9	1	130
Butylbenzylphthalate	1	107.2078	0	100	107	50	130
3,3'-Dichlorobenzidine	1	108.6041	0	100	109	1	150
Benzo[a]anthracene	1	99.6953	0	100	100	70	130
Chrysene	1	103.3045	0	100	103	50	130
bis(2-Ethylhexyl)phthalate	1	110.749	0	100	111	70	130
Di-n-octylphthalate	1	100.0985	0	100	100	70	130
Benzo[b]fluoranthene	1	103.5753	0	100	104	70	130
Benzo[k]fluoranthene	1	110.29	0	100	110	70	130
Benzo[a]pyrene	1	97.9658	0	100	98	70	130
Indeno[1,2,3-cd]pyrene	1	108.3317	0	100	108	70	130
Dibenzo[a,h]anthracene	1	107.1344	0	100	107	70	130
Benzo[g,h,i]perylene	1	100.1932	0	100	100	70	130

* - Indicates outside of limits

- Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB60422

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M79177.D	AC98939-003(MSD:AC98939-0	7/13/2017 4:17:00 PM
Duplicate(If applicable):	9M79176.D	AC98939-002(MS:AC98939-001	7/13/2017 3:53:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	34.7491	33.086	4.9	20
Pyridine	1	23.1876	15.804	38	40
N-Nitrosodimethylamine	1	62.3983	58.8832	5.8	20
Benzaldehyde	1	82.2946	71.6855	14	20
Aniline	1	69.8758	58.9067	17	20
Pentachloroethane	1	51.8381	45.0665	14	20
bis(2-Chloroethyl)ether	1	76.5871	70.936	7.7	20
Phenol	1	40.0559	38.7724	3.3	40
2-Chlorophenol	1	75.7679	71.8497	5.3	40
N-Decane	1	46.096	37.6006	20	20
1,3-Dichlorobenzene	1	53.2533	39.0196	31*	20
1,4-Dichlorobenzene	1	52.6341	41.0935	25	40
1,2-Dichlorobenzene	1	55.571	44.2299	23*	20
Benzyl alcohol	1	80.9082	79.6484	1.6	20
bis(2-chloroisopropyl)ether	1	66.945	64.6023	3.6	20
2-Methylphenol	1	71.2786	70.7116	0.8	40
Acetophenone	1	81.3392	80.7189	0.77	20
Hexachloroethane	1	51.3679	38.3102	29	40
N-Nitroso-di-n-propylamine	1	82.4916	82.5198	0.03	40
3&4-Methylphenol	1	69.8976	70.54	0.91	40
Nitrobenzene	1	83.5565	80.3116	4	40
Isophorone	1	86.8169	86.0582	0.88	20
2-Nitrophenol	1	87.5795	86.4882	1.3	20
2,4-Dimethylphenol	1	79.2381	78.3552	1.1	40
Benzoic Acid	1	23.6022	17.147	32*	20
bis(2-Chloroethoxy)methane	1	83.4297	82.1806	1.5	20
2,4-Dichlorophenol	1	85.5033	84.5751	1.1	20
1,2,4-Trichlorobenzene	1	68.6886	61.8191	11	40
Naphthalene	1	68.434	62.96	8.3	40
4-Chloroaniline	1	121.4668	119.2857	1.8	20
Hexachlorobutadiene	1	60.7886	51.1483	17	40
Caprolactam	1	50.2168	50.8104	1.2	20
4-Chloro-3-methylphenol	1	90.257	91.158	0.99	40
2-Methylnaphthalene	1	83.2691	82.0089	1.5	20
1-Methylnaphthalene	1	86.8094	86.027	0.91	20
1,1'-Biphenyl	1	87.492	87.177	0.36	20
1,2,4,5-Tetrachlorobenzene	1	87.5299	87.6278	0.11	20
Hexachlorocyclopentadiene	1	72.9748	68.7633	5.9	20
2,4,6-Trichlorophenol	1	94.1216	98.9882	5	40
2,4,5-Trichlorophenol	1	99.1717	99.1819	0.01	40
2-Chloronaphthalene	1	88.6204	89.0174	0.45	20
1,4-Dimethylnaphthalene	1	83.0796	84.0101	1.1	20
Diphenyl Ether	1	90.794	91.0952	0.33	20
2-Nitroaniline	1	98.3653	101.6999	3.3	20
Coumarin	1	79.123	80.4442	1.7	20
Acenaphthylene	1	93.887	95.3434	1.5	20
Dimethylphthalate	1	95.4303	99.5223	4.2	20
2,6-Dinitrotoluene	1	97.7121	98.9949	1.3	20
Acenaphthene	1	95.536	97.3074	1.8	40
3-Nitroaniline	1	111.9436	110.995	0.85	20
2,4-Dinitrophenol	1	109.952	108.9885	0.88	20
Dibenzofuran	1	89.7823	91.9638	2.4	20
2,4-Dinitrotoluene	1	101.5139	105.4217	3.8	40
4-Nitrophenol	1	50.0055	51.7318	3.4	40
2,3,4,6-Tetrachlorophenol	1	95.9991	100.1156	4.2	20
Fluorene	1	97.6216	100.7473	3.2	40
4-Chlorophenyl-phenylether	1	95.9433	97.3802	1.5	20
Diethylphthalate	1	99.8673	105.1935	5.2	20
4-Nitroaniline	1	104.0467	101.4564	2.5	20
Atrazine	1	104.8501	112.8858	7.4	20
4,6-Dinitro-2-methylphenol	1	109.6779	111.2043	1.4	20
n-Nitrosodiphenylamine	1	79.6551	81.2809	2	20
1,2-Diphenylhydrazine	1	91.3896	92.3153	1	20

Form3
RPD Data Laboratory Limits
QC Batch: WMB60422

4-Bromophenyl-phenylether	1	96.0929	98.5125	2.5	20
Hexachlorobenzene	1	99.4928	100.6891	1.2	40
N-Octadecane	1	96.8351	100.2104	3.4	20
Pentachlorophenol	1	102.3454	107.3001	4.7	40
Phenanthrene	1	95.1758	99.0455	4	20
Anthracene	1	94.3294	97.6847	3.5	20
Carbazole	1	99.3307	103.1414	3.8	20
Di-n-butylphthalate	1	107.9494	111.4232	3.2	20
Fluoranthene	1	100.3932	105.5458	5	20
Pyrene	1	98.9273	99.0477	0.12	40
Benzidine	1	7.8688	2.2317	112*	20
Butylbenzylphthalate	1	107.2078	108.4578	1.2	40
3,3'-Dichlorobenzidine	1	108.6041	104.8494	3.5	20
Benzo[a]anthracene	1	99.6953	102.798	3.1	20
Chrysene	1	103.3045	105.8407	2.4	20
bis(2-Ethylhexyl)phthalate	1	110.749	112.3536	1.4	20
Di-n-octylphthalate	1	100.0985	102.9375	2.8	20
Benzo[b]fluoranthene	1	103.5753	107.1624	3.4	20
Benzo[k]fluoranthene	1	110.29	106.629	3.4	20
Benzo[a]pyrene	1	97.9658	99.555	1.6	20
Indeno[1,2,3-cd]pyrene	1	108.3317	110.144	1.7	20
Dibenzo[a,h]anthracene	1	107.1344	108.1913	0.98	20
Benzo[g,h,i]perylene	1	100.1932	102.9871	2.8	20

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data Laboratory Limits
QC Batch: WMB60426

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M63996.D	AC98785-003(T)(MS)	7/14/2017 1:51:00 PM
Non Spike(If applicable):	10M63995.D	AC98785-003(T)	7/14/2017 1:29:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	60.28	0	100	60	20	160
Pyridine	1	36.8941	0	100	37	5	150
N-Nitrosodimethylamine	1	84.6082	0	100	85	50	150
Benzaldehyde	1	126.9838	0	100	127	20	150
Aniline	1	62.2352	0	100	62	20	150
Pentachloroethane	1	64.4726	0	100	64	50	130
bis(2-Chloroethyl)ether	1	77.1033	0	100	77	50	130
N-Decane	1	65.2088	0	100	65	40	130
1,3-Dichlorobenzene	1	45.0887	0	100	45*	50	130
1,4-Dichlorobenzene	1	46.7894	0	100	47*	50	130
1,2-Dichlorobenzene	1	50.0253	0	100	50	50	130
Benzyl alcohol	1	95.0046	0	100	95	70	130
bis(2-chloroisopropyl)ether	1	65.2899	0	100	65	40	130
Acetophenone	1	91.9676	0	100	92	50	130
Hexachloroethane	1	46.9956	0	100	47*	50	130
N-Nitroso-di-n-propylamine	1	84.9134	0	100	85	50	130
Nitrobenzene	1	79.6919	0	100	80	70	130
Isophorone	1	88.6719	0	100	89	70	130
Benzoic Acid	1	55.8274	0	100	56	20	130
bis(2-Chloroethoxy)methane	1	84.6345	0	100	85	70	130
1,2,4-Trichlorobenzene	1	62.0966	0	100	62	50	130
Naphthalene	1	62.8193	2.5811	100	60*	70	130
4-Chloroaniline	1	106.4828	0	100	106	50	150
Hexachlorobutadiene	1	58.6933	0	100	59*	70	130
Caprolactam	1	76.5555	0	100	77	20	130
2-Methylnaphthalene	1	92.9152	4.0973	100	89	70	130
1-Methylnaphthalene	1	92.4974	5.1725	100	87	70	130
1,1'-Biphenyl	1	89.3585	0	100	89	70	130
1,2,4,5-Tetrachlorobenzene	1	93.1469	0	100	93	70	130
Hexachlorocyclopentadiene	1	71.95	0	100	72	20	130
2-Chloronaphthalene	1	79.4377	0	100	79	70	130
1,4-Dimethylnaphthalene	1	86.6476	0	100	87	70	130
Diphenyl Ether	1	93.7005	0	100	94	70	130
2-Nitroaniline	1	107.9947	0	100	108	50	150
Coumarin	1	78.9272	0	100	79	70	130
Acenaphthylene	1	86.289	0	100	86	70	130
Dimethylphthalate	1	91.0809	0	100	91	70	130
2,6-Dinitrotoluene	1	92.6354	0	100	93	70	130
Acenaphthene	1	86.5292	0	100	87	70	130
3-Nitroaniline	1	109.5196	0	100	110	50	150
Dibenzofuran	1	94.2243	0	100	94	70	130
2,4-Dinitrotoluene	1	89.3453	0	100	89	40	130
Fluorene	1	91.8552	0	100	92	70	130
4-Chlorophenyl-phenylether	1	88.6747	0	100	89	70	130
Diethylphthalate	1	93.8229	0	100	94	50	130
4-Nitroaniline	1	98.2145	0	100	98	50	150
Atrazine	1	105.2256	0	100	105	50	130
n-Nitrosodiphenylamine	1	78.7277	0	100	79	50	130
1,2-Diphenylhydrazine	1	99.2528	0	100	99	70	130
4-Bromophenyl-phenylether	1	91.8745	0	100	92	70	130
Hexachlorobenzene	1	91.9789	0	100	92	70	130
N-Octadecane	1	105.7533	0	100	106	70	130
Phenanthrene	1	92.348	0	100	92	70	130
Anthracene	1	92.3773	0	100	92	70	130
Carbazole	1	98.2693	0	100	98	70	130
Di-n-butylphthalate	1	95.1778	0	100	95	70	130
Fluoranthene	1	99.2377	0	100	99	70	130
Pyrene	1	91.3187	0	100	91	70	130
Benzidine	1	7.9616	0	100	8	1	130
Butylbenzylphthalate	1	87.8362	0	100	88	50	130
3,3'-Dichlorobenzidine	1	107.7391	0	100	108	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB60426

Benzo[a]anthracene	1	94.3038	0	100	94	70	130
Chrysene	1	94.6924	0	100	95	50	130
bis(2-Ethylhexyl)phthalate	1	96.5333	0	100	97	70	130
Di-n-octylphthalate	1	99.4227	0	100	99	70	130
Benzo[b]fluoranthene	1	95.5391	0	100	96	70	130
Benzo[k]fluoranthene	1	100.3458	0	100	100	70	130
Benzo[a]pyrene	1	93.0414	0	100	93	70	130
Indeno[1,2,3-cd]pyrene	1	94.8348	0	100	95	70	130
Dibenzo[a,h]anthracene	1	92.816	0	100	93	70	130
Benzo[g,h,i]perylene	1	86.724	0	100	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB60426

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M63997.D	AC98785-003(T)(MSD)	7/14/2017 2:14:00 PM
Non Spike(If applicable):	10M63995.D	AC98785-003(T)	7/14/2017 1:29:00 PM
Inst Blank(If applicable):			

Method: 8270D | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	63.1424	0	100	63	20	160
Pyridine	1	9.1547	0	100	9.2	5	150
N-Nitrosodimethylamine	1	88.0341	0	100	88	50	150
Benzaldehyde	1	120.778	0	100	121	20	150
Aniline	1	45.8384	0	100	46	20	150
Pentachloroethane	1	66.4771	0	100	66	50	130
bis(2-Chloroethyl)ether	1	76.6159	0	100	77	50	130
N-Decane	1	67.8596	0	100	68	40	130
1,3-Dichlorobenzene	1	47.4619	0	100	47*	50	130
1,4-Dichlorobenzene	1	49.4512	0	100	49*	50	130
1,2-Dichlorobenzene	1	53.3394	0	100	53	50	130
Benzyl alcohol	1	92.5036	0	100	93	70	130
bis(2-chloroisopropyl)ether	1	68.4806	0	100	68	40	130
Acetophenone	1	89.5228	0	100	90	50	130
Hexachloroethane	1	49.439	0	100	49*	50	130
N-Nitroso-di-n-propylamine	1	83.0895	0	100	83	50	130
Nitrobenzene	1	81.593	0	100	82	70	130
Isophorone	1	85.6372	0	100	86	70	130
Benzoic Acid	1	62.5731	0	100	63	20	130
bis(2-Chloroethoxy)methane	1	83.8751	0	100	84	70	130
1,2,4-Trichlorobenzene	1	68.4572	0	100	68	50	130
Naphthalene	1	68.2826	2.5811	100	66*	70	130
4-Chloroaniline	1	103.6776	0	100	104	50	150
Hexachlorobutadiene	1	64.5753	0	100	65*	70	130
Caprolactam	1	80.1094	0	100	80	20	130
2-Methylnaphthalene	1	91.6366	4.0973	100	88	70	130
1-Methylnaphthalene	1	88.7764	5.1725	100	84	70	130
1,1'-Biphenyl	1	85.2284	0	100	85	70	130
1,2,4,5-Tetrachlorobenzene	1	90.7133	0	100	91	70	130
Hexachlorocyclopentadiene	1	80.6654	0	100	81	20	130
2-Chloronaphthalene	1	84.4096	0	100	84	70	130
1,4-Dimethylnaphthalene	1	83.4516	0	100	83	70	130
Diphenyl Ether	1	91.3084	0	100	91	70	130
2-Nitroaniline	1	105.7757	0	100	106	50	150
Coumarin	1	75.1891	0	100	75	70	130
Acenaphthylene	1	91.4872	0	100	91	70	130
Dimethylphthalate	1	89.2821	0	100	89	70	130
2,6-Dinitrotoluene	1	92.3405	0	100	92	70	130
Acenaphthene	1	89.6992	0	100	90	70	130
3-Nitroaniline	1	113.3118	0	100	113	50	150
Dibenzofuran	1	92.6533	0	100	93	70	130
2,4-Dinitrotoluene	1	90.0459	0	100	90	40	130
Fluorene	1	90.6462	0	100	91	70	130
4-Chlorophenyl-phenylether	1	88.0882	0	100	88	70	130
Diethylphthalate	1	93.1451	0	100	93	50	130
4-Nitroaniline	1	95.7691	0	100	96	50	150
Atrazine	1	94.4608	0	100	94	50	130
n-Nitrosodiphenylamine	1	74.4521	0	100	74	50	130
1,2-Diphenylhydrazine	1	95.769	0	100	96	70	130
4-Bromophenyl-phenylether	1	89.7867	0	100	90	70	130
Hexachlorobenzene	1	89.9128	0	100	90	70	130
N-Octadecane	1	101.3401	0	100	101	70	130
Phenanthrene	1	88.866	0	100	89	70	130
Anthracene	1	88.6384	0	100	89	70	130
Carbazole	1	93.7624	0	100	94	70	130
Di-n-butylphthalate	1	91.5493	0	100	92	70	130
Fluoranthene	1	95.1254	0	100	95	70	130
Pyrene	1	88.9473	0	100	89	70	130
Benzidine	1	0	0	100	0*	1	130
Butylbenzylphthalate	1	85.6511	0	100	86	50	130
3,3'-Dichlorobenzidine	1	78.0548	0	100	78	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB60426

Benzo[a]anthracene	1	90.3619	0	100	90	70	130
Chrysene	1	90.4155	0	100	90	50	130
bis(2-Ethylhexyl)phthalate	1	93.9932	0	100	94	70	130
Di-n-octylphthalate	1	95.1082	0	100	95	70	130
Benzo[b]fluoranthene	1	94.2628	0	100	94	70	130
Benzo[k]fluoranthene	1	95.4798	0	100	95	70	130
Benzo[a]pyrene	1	89.0729	0	100	89	70	130
Indeno[1,2,3-cd]pyrene	1	91.9554	0	100	92	70	130
Dibenzo[a,h]anthracene	1	90.1286	0	100	90	70	130
Benzo[g,h,i]perylene	1	85.2547	0	100	85	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB60426

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M63997.D	AC98785-003(T)(MSD)	7/14/2017 2:14:00 PM
Duplicate(If applicable):	10M63996.D	AC98785-003(T)(MS)	7/14/2017 1:51:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	63.1424	60.28	4.6	20
Pyridine	1	9.1547	36.8941	120*	40
N-Nitrosodimethylamine	1	88.0341	84.6082	4	20
Benzaldehyde	1	120.778	126.9838	5	20
Aniline	1	45.8384	62.2352	30*	20
Pentachloroethane	1	66.4771	64.4726	3.1	20
bis(2-Chloroethyl)ether	1	76.6159	77.1033	0.63	20
N-Decane	1	67.8596	65.2088	4	20
1,3-Dichlorobenzene	1	47.4619	45.0887	5.1	20
1,4-Dichlorobenzene	1	49.4512	46.7894	5.5	40
1,2-Dichlorobenzene	1	53.3394	50.0253	6.4	20
Benzyl alcohol	1	92.5036	95.0046	2.7	20
bis(2-chloroisopropyl)ether	1	68.4806	65.2899	4.8	20
Acetophenone	1	89.5228	91.9676	2.7	20
Hexachloroethane	1	49.439	46.9956	5.1	40
N-Nitroso-di-n-propylamine	1	83.0895	84.9134	2.2	40
Nitrobenzene	1	81.593	79.6919	2.4	40
Isophorone	1	85.6372	88.6719	3.5	20
Benzoic Acid	1	62.5731	55.8274	11	20
bis(2-Chloroethoxy)methane	1	83.8751	84.6345	0.9	20
1,2,4-Trichlorobenzene	1	68.4572	62.0966	9.7	40
Naphthalene	1	68.2826	62.8193	8.3	40
4-Chloroaniline	1	103.6776	106.4828	2.7	20
Hexachlorobutadiene	1	64.5753	58.6933	9.5	40
Caprolactam	1	80.1094	76.5555	4.5	20
2-Methylnaphthalene	1	91.6366	92.9152	1.4	20
1-Methylnaphthalene	1	88.7764	92.4974	4.1	20
1,1'-Biphenyl	1	85.2284	89.3585	4.7	20
1,2,4,5-Tetrachlorobenzene	1	90.7133	93.1469	2.6	20
Hexachlorocyclopentadiene	1	80.6654	71.95	11	20
2-Chloronaphthalene	1	84.4096	79.4377	6.1	20
1,4-Dimethylnaphthalene	1	83.4516	86.6476	3.8	20
Diphenyl Ether	1	91.3084	93.7005	2.6	20
2-Nitroaniline	1	105.7757	107.9947	2.1	20
Coumarin	1	75.1891	78.9272	4.9	20
Acenaphthylene	1	91.4872	86.289	5.8	20
Dimethylphthalate	1	89.2821	91.0809	2	20
2,6-Dinitrotoluene	1	92.3405	92.6354	0.32	20
Acenaphthene	1	89.6992	86.5292	3.6	40
3-Nitroaniline	1	113.3118	109.5196	3.4	20
Dibenzofuran	1	92.6533	94.2243	1.7	20
2,4-Dinitrotoluene	1	90.0459	89.3453	0.78	40
Fluorene	1	90.6462	91.8552	1.3	40
4-Chlorophenyl-phenylether	1	88.0882	88.6747	0.66	20
Diethylphthalate	1	93.1451	93.8229	0.73	20
4-Nitroaniline	1	95.7691	98.2145	2.5	20
Atrazine	1	94.4608	105.2256	11	20
n-Nitrosodiphenylamine	1	74.4521	78.7277	5.6	20
1,2-Diphenylhydrazine	1	95.769	99.2528	3.6	20
4-Bromophenyl-phenylether	1	89.7867	91.8745	2.3	20
Hexachlorobenzene	1	89.9128	91.9789	2.3	40
N-Octadecane	1	101.3401	105.7533	4.3	20
Phenanthrene	1	88.866	92.348	3.8	20
Anthracene	1	88.6384	92.3773	4.1	20
Carbazole	1	93.7624	98.2693	4.7	20
Di-n-butylphthalate	1	91.5493	95.1778	3.9	20
Fluoranthene	1	95.1254	99.2377	4.2	20
Pyrene	1	88.9473	91.3187	2.6	40
Benzidine	1	0	7.9616	200*	20
Butylbenzylphthalate	1	85.6511	87.8362	2.5	40
3,3'-Dichlorobenzidine	1	78.0548	107.7391	32*	20
Benzo[a]anthracene	1	90.3619	94.3038	4.3	20
Chrysene	1	90.4155	94.6924	4.6	20

Form3
RPD Data Laboratory Limits
QC Batch: WMB60426

bis(2-Ethylhexyl)phthalate	1	93.9932	96.5333	2.7	20
Di-n-octylphthalate	1	95.1082	99.4227	4.4	20
Benzo[b]fluoranthene	1	94.2628	95.5391	1.3	20
Benzo[k]fluoranthene	1	95.4798	100.3458	5	20
Benzo[a]pyrene	1	89.0729	93.0414	4.4	20
Indeno[1,2,3-cd]pyrene	1	91.9554	94.8348	3.1	20
Dibenzo[a,h]anthracene	1	90.1286	92.816	2.9	20
Benzo[g,h,i]perylene	1	85.2547	86.724	1.7	20

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 60969 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 60969 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	18	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	18	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	18	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	18	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	18	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	18	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	18	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	18	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 60969 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 60969 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-70-2	Calcium	5000	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7439-95-4	Magnesium	5000	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	11	CV	HGCV2A
7439-98-7	Molybdenum	20	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	07/13/17	60969	SW21206B2	11	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-23-5	Sodium	5000	ND	1	50	50	07/13/17	60969	SW21206B2	11	P	PEICPRAD2A
7440-31-5	Tin	50	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-32-6	Titanium	50	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	SW21206A2	15	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 60970 (0.5) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 60970 (0.5) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-39-3	Barium	25	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-70-2	Calcium	1000	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-47-3	Chromium	25	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-50-8	Copper	25	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7439-89-6	Iron	150	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7439-95-4	Magnesium	1000	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7439-96-5	Manganese	25	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7439-98-7	Molybdenum	10	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-02-0	Nickel	10	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-09-7	Potassium	2500	ND	1	100	50	07/13/17	60970	A21207C4	10	P	PEICPRAD4A
7440-22-4	Silver	10	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-23-5	Sodium	2500	ND	1	100	50	07/13/17	60970	A21207C4	10	P	PEICPRAD4A
7440-31-5	Tin	25	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-32-6	Titanium	25	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-62-2	Vanadium	25	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A
7440-66-6	Zinc	25	ND	1	100	50	07/13/17	60970	A21207A2	13	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 60973 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 60973 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	07/14/17	60973	S21210B3	11	P	PEICPRAD3A
7440-39-3	Barium	10	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7440-70-2	Calcium	1000	ND	1	0.5	50	07/14/17	60973	S21210B3	11	P	PEICPRAD3A
7440-47-3	Chromium	5.0	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7440-48-4	Cobalt	2.5	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7440-50-8	Copper	5.0	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7439-89-6	Iron	200	ND	1	0.5	50	07/14/17	60973	S21210B3	11	P	PEICPRAD3A
7439-92-1	Lead	5.0	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7439-95-4	Magnesium	500	ND	1	0.5	50	07/14/17	60973	S21210B3	11	P	PEICPRAD3A
7439-96-5	Manganese	10	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7439-98-7	Molybdenum	2.5	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7440-02-0	Nickel	5.0	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7440-09-7	Potassium	500	ND	1	0.5	50	07/14/17	60973	S21210B3	11	P	PEICPRAD3A
7440-23-5	Sodium	250	ND	1	0.5	50	07/14/17	60973	S21210B3	11	P	PEICPRAD3A
7440-31-5	Tin	20	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7440-32-6	Titanium	10	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7440-62-2	Vanadium	10	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A
7440-66-6	Zinc	10	ND	1	0.5	50	07/14/17	60973	S21210A3	12	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 60974 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 60974 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.80	ND	1	0.5	100	07/14/17	60974	S071417B	17	MS	MS2_7500SWA
7440-38-2	Arsenic	0.20	ND	1	0.5	100	07/14/17	60974	S071417B	17	MS	MS2_7500SWA
7440-41-7	Beryllium	0.20	ND	1	0.5	100	07/14/17	60974	S071417B	17	MS	MS2_7500SWA
7440-43-9	Cadmium	0.40	ND	1	0.5	100	07/14/17	60974	S071417B	17	MS	MS2_7500SWA
7782-49-2	Selenium	2.0	ND	1	0.5	100	07/14/17	60974	S071417B	17	MS	MS2_7500SWA
7440-22-4	Silver	0.20	ND	1	0.5	100	07/14/17	60974	S071417B	17	MS	MS2_7500SWA
7440-28-0	Thallium	0.40	ND	1	0.5	100	07/14/17	60974	S071417B	17	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 60973 (167) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 60973 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	07/15/17	60973	H21210S	11	CV	HGCV1A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	LMW-2-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7440-39-3	Barium	50	85	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7440-70-2	Calcium	5000	60000	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7440-47-3	Chromium	50	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7440-50-8	Copper	50	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7439-89-6	Iron	300	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7439-95-4	Magnesium	5000	22000	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7439-96-5	Manganese	40	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	14	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	100	100	07/13/17	60969	W21206B2	14	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7440-23-5	Sodium	5000	22000	1	100	100	07/13/17	60969	W21206B2	14	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A
7440-66-6	Zinc	50	ND	1	100	100	07/13/17	60969	W21206A2	18	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	LMW-2-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	100	200	07/14/17	60969	A071317A	21	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	100	200	07/14/17	60969	A071317A	21	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	100	200	07/14/17	60969	A071317A	21	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	100	200	07/14/17	60969	A071317A	21	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	100	200	07/14/17	60969	A071317A	21	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	100	200	07/14/17	60969	A071317A	21	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	100	200	07/14/17	60969	A071317A	21	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	100	200	07/14/17	60969	A071317A	21	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	LMW-4-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	1200	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7440-39-3	Barium	50	180	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7440-70-2	Calcium	5000	43000	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7439-89-6	Iron	300	110000	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7439-95-4	Magnesium	5000	17000	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7439-96-5	Manganese	40	12000	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	18	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	07/13/17	60969	W21206B2	23	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7440-23-5	Sodium	5000	28000	1	50	50	07/13/17	60969	W21206B2	23	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	27	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	LMW-4-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	31	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	4.2	1	50	100	07/14/17	60969	A071317A	31	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	31	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	31	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	7.0	1	50	100	07/14/17	60969	A071317A	31	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	31	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	31	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	31	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	PC-2-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7440-39-3	Barium	50	140	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7440-70-2	Calcium	5000	84000	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7439-89-6	Iron	300	62000	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7439-95-4	Magnesium	5000	20000	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7439-96-5	Manganese	40	10000	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	19	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	07/13/17	60969	W21206B2	24	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7440-23-5	Sodium	5000	36000	1	50	50	07/13/17	60969	W21206B2	24	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	28	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	PC-2-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	32	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	32	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	32	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	32	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	32	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	32	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	32	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	32	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-007	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SW-4-201707 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	260	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7440-70-2	Calcium	5000	34000	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7439-89-6	Iron	300	980	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7439-95-4	Magnesium	5000	9500	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7439-96-5	Manganese	40	700	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	22	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	07/13/17	60969	W21206B2	25	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7440-23-5	Sodium	5000	13000	1	50	50	07/13/17	60969	W21206B2	25	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	29	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-007	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SW-4-201707 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	33	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	33	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	33	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	33	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	33	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	33	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	33	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	33	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: A21207A2

Lab Code: 14622
Analysis Date: 07/13/2017

Matrix: Water
Lab Sample ID: AC98905-007
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 21207
% Solid: 0

Concentration Units: Mg CaCO3/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	110	P

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-009	% Solid:	68	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SD-4-201707	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	290	11000	1	0.5	50	07/14/17	60973	S21210B3	24	P	PEICPRAD3A
7440-39-3	Barium	15	130	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A
7440-70-2	Calcium	1500	15000	1	0.5	50	07/14/17	60973	S21210B3	24	P	PEICPRAD3A
7440-47-3	Chromium	7.4	29	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A
7440-48-4	Cobalt	3.7	7.6	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A
7440-50-8	Copper	7.4	11	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A
7439-89-6	Iron	290	27000	1	0.5	50	07/14/17	60973	S21210B3	24	P	PEICPRAD3A
7439-92-1	Lead	7.4	13	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A
7439-95-4	Magnesium	740	12000	1	0.5	50	07/14/17	60973	S21210B3	24	P	PEICPRAD3A
7439-96-5	Manganese	15	1900	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A
7439-97-6	Mercury	0.12	ND	1	0.15	25	07/15/17	60973	H21210S	35	CV	HGCV1A
7440-02-0	Nickel	7.4	22	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A
7440-09-7	Potassium	740	2000	1	0.5	50	07/14/17	60973	S21210B3	24	P	PEICPRAD3A
7440-23-5	Sodium	370	ND	1	0.5	50	07/14/17	60973	S21210B3	24	P	PEICPRAD3A
7440-62-2	Vanadium	15	39	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A
7440-66-6	Zinc	15	81	1	0.5	50	07/14/17	60973	S21210A3	26	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-009	% Solid:	68	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SD-4-201707	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	1.2	ND	1	0.5	100	07/14/17	60974	S071417B	49	MS	MS2_7500SWA
7440-38-2	Arsenic	0.29	2.0	1	0.5	100	07/14/17	60974	S071417B	49	MS	MS2_7500SWA
7440-41-7	Beryllium	0.29	ND	1	0.5	100	07/17/17	60974	S071717A	29	MS	MS2_7500SWA
7440-43-9	Cadmium	0.59	ND	1	0.5	100	07/14/17	60974	S071417B	49	MS	MS2_7500SWA
7782-49-2	Selenium	2.9	ND	1	0.5	100	07/14/17	60974	S071417B	49	MS	MS2_7500SWA
7440-22-4	Silver	0.29	ND	1	0.5	100	07/14/17	60974	S071417B	49	MS	MS2_7500SWA
7440-28-0	Thallium	0.59	ND	1	0.5	100	07/14/17	60974	S071417B	49	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-010	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SW-2-201707 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7440-70-2	Calcium	5000	36000	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7439-89-6	Iron	300	650	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7439-95-4	Magnesium	5000	9900	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7439-96-5	Manganese	40	370	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	23	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	07/13/17	60969	W21206B2	26	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7440-23-5	Sodium	5000	10000	1	50	50	07/13/17	60969	W21206B2	26	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	30	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-010	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SW-2-201707 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	34	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	34	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	34	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	34	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	34	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	34	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	34	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	34	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: A21207A2

Lab Code: 14622
Analysis Date: 07/13/2017

Matrix: Water
Lab Sample ID: AC98905-010
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 21207
% Solid: 0

Concentration Units: Mg CaCO3/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	110	P

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-012	% Solid:	12	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SD-2-201707	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	1700	20000	1	0.5	50	07/14/17	60973	S21210B3	25	P	PEICPRAD3A
7440-39-3	Barium	83	1100	1	0.5	50	07/14/17	60973	S21210A3	27	P	PEICP3A
7440-70-2	Calcium	8300	26000	1	0.5	50	07/14/17	60973	S21210B3	25	P	PEICPRAD3A
7440-47-3	Chromium	42	53	1	0.5	50	07/14/17	60973	S21210A3	27	P	PEICP3A
7440-48-4	Cobalt	21	23	1	0.5	50	07/14/17	60973	S21210A3	27	P	PEICP3A
7440-50-8	Copper	42	80	1	0.5	50	07/14/17	60973	S21210A3	27	P	PEICP3A
7439-89-6	Iron	1700	110000	1	0.5	50	07/14/17	60973	S21210B3	25	P	PEICPRAD3A
7439-92-1	Lead	42	100	1	0.5	50	07/14/17	60973	S21210A3	27	P	PEICP3A
7439-95-4	Magnesium	4200	10000	1	0.5	50	07/14/17	60973	S21210B3	25	P	PEICPRAD3A
7439-96-5	Manganese	170	52000	2	0.5	50	07/17/17	60973	S21210C3	12	P	PEICP3A
7439-97-6	Mercury	0.69	ND	1	0.15	25	07/15/17	60973	H21210S	36	CV	HGCV1A
7440-02-0	Nickel	42	45	1	0.5	50	07/14/17	60973	S21210A3	27	P	PEICP3A
7440-09-7	Potassium	4200	ND	1	0.5	50	07/14/17	60973	S21210B3	25	P	PEICPRAD3A
7440-23-5	Sodium	2100	ND	1	0.5	50	07/14/17	60973	S21210B3	25	P	PEICPRAD3A
7440-62-2	Vanadium	83	ND	1	0.5	50	07/14/17	60973	S21210A3	27	P	PEICP3A
7440-66-6	Zinc	83	520	1	0.5	50	07/14/17	60973	S21210A3	27	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-012	% Solid:	12	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SD-2-201707	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	6.7	ND	1	0.5	100	07/14/17	60974	S071417B	50	MS	MS2_7500SWA
7440-38-2	Arsenic	1.7	16	1	0.5	100	07/14/17	60974	S071417B	50	MS	MS2_7500SWA
7440-41-7	Beryllium	3.3	ND	2	0.5	100	07/17/17	60974	S071717A	30	MS	MS2_7500SWA
7440-43-9	Cadmium	3.3	ND	1	0.5	100	07/14/17	60974	S071417B	50	MS	MS2_7500SWA
7782-49-2	Selenium	17	ND	1	0.5	100	07/14/17	60974	S071417B	50	MS	MS2_7500SWA
7440-22-4	Silver	1.7	ND	1	0.5	100	07/14/17	60974	S071417B	50	MS	MS2_7500SWA
7440-28-0	Thallium	3.3	ND	1	0.5	100	07/14/17	60974	S071417B	50	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-013	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SW-1-201707 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7440-70-2	Calcium	5000	39000	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7439-89-6	Iron	300	1400	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7439-95-4	Magnesium	5000	11000	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7439-96-5	Manganese	40	1300	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	24	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	07/13/17	60969	W21206B2	27	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7440-23-5	Sodium	5000	9000	1	50	50	07/13/17	60969	W21206B2	27	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	31	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-013	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SW-1-201707 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	35	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	35	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	35	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	35	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	35	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	35	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	35	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	35	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: A21207A2

Lab Code: 14622
Analysis Date: 07/13/2017

Matrix: Water
Lab Sample ID: AC98905-013
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 21207
% Solid: 0

Concentration Units: Mg CaCO3/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	120	P

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-015	% Solid:	48	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SD-1-201707	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	420	28000	1	0.5	50	07/14/17	60973	S21210B3	26	P	PEICPRAD3A
7440-39-3	Barium	21	330	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A
7440-70-2	Calcium	2100	8100	1	0.5	50	07/14/17	60973	S21210B3	26	P	PEICPRAD3A
7440-47-3	Chromium	10	68	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A
7440-48-4	Cobalt	5.2	24	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A
7440-50-8	Copper	10	54	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A
7439-89-6	Iron	420	78000	1	0.5	50	07/14/17	60973	S21210B3	26	P	PEICPRAD3A
7439-92-1	Lead	10	52	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A
7439-95-4	Magnesium	1000	9600	1	0.5	50	07/14/17	60973	S21210B3	26	P	PEICPRAD3A
7439-96-5	Manganese	21	5800	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A
7439-97-6	Mercury	0.17	ND	1	0.15	25	07/15/17	60973	H21210S	37	CV	HGCV1A
7440-02-0	Nickel	10	47	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A
7440-09-7	Potassium	1000	5400	1	0.5	50	07/14/17	60973	S21210B3	26	P	PEICPRAD3A
7440-23-5	Sodium	520	ND	1	0.5	50	07/14/17	60973	S21210B3	26	P	PEICPRAD3A
7440-62-2	Vanadium	21	99	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A
7440-66-6	Zinc	21	180	1	0.5	50	07/14/17	60973	S21210A3	28	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-015	% Solid:	48	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SD-1-201707	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	1.7	ND	1	0.5	100	07/14/17	60974	S071417B	51	MS	MS2_7500SWA
7440-38-2	Arsenic	0.42	6.2	1	0.5	100	07/14/17	60974	S071417B	51	MS	MS2_7500SWA
7440-41-7	Beryllium	0.42	0.50	1	0.5	100	07/17/17	60974	S071717A	31	MS	MS2_7500SWA
7440-43-9	Cadmium	0.83	ND	1	0.5	100	07/14/17	60974	S071417B	51	MS	MS2_7500SWA
7782-49-2	Selenium	4.2	ND	1	0.5	100	07/14/17	60974	S071417B	51	MS	MS2_7500SWA
7440-22-4	Silver	0.42	ND	1	0.5	100	07/14/17	60974	S071417B	51	MS	MS2_7500SWA
7440-28-0	Thallium	0.83	ND	1	0.5	100	07/14/17	60974	S071417B	51	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-018	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-11-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/11/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-89-6	Iron	300	370	1	50	50	07/13/17	60969	W21206A2	44	P	PEICP2A
7439-96-5	Manganese	40	680	1	50	50	07/13/17	60969	W21206A2	44	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-019	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SW-FD-201707 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/12/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	240	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7440-70-2	Calcium	5000	36000	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7439-89-6	Iron	300	430	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7439-95-4	Magnesium	5000	10000	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7439-96-5	Manganese	40	240	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	25	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	07/13/17	60969	W21206B2	33	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7440-23-5	Sodium	5000	10000	1	50	50	07/13/17	60969	W21206B2	33	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	37	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98905-019	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SW-FD-201707 U	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/12/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	36	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	36	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	36	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	36	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	36	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	36	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	36	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	36	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: A21207A2

Lab Code: 14622
Analysis Date: 07/13/2017

Matrix: Water
Lab Sample ID: AC98905-019
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 21207
% Solid: 0

Concentration Units: Mg CaCO3/L

Cas No.	Analyte	RL	Concentration	M
	Hardness	6.6	120	P

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98940-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	PC-1-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/12/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	210	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7440-39-3	Barium	50	180	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7440-70-2	Calcium	5000	170000	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7439-89-6	Iron	300	1400	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7439-95-4	Magnesium	5000	24000	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7439-96-5	Manganese	40	1500	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	26	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7440-09-7	Potassium	5000	6300	1	50	50	07/13/17	60969	W21206B2	34	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7440-23-5	Sodium	5000	160000	1	50	50	07/13/17	60969	W21206B2	34	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	38	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98940-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	PC-1-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/12/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	37	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	37	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	37	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	37	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	37	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	37	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	37	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	37	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98940-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	PC-FD-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/12/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7440-39-3	Barium	50	170	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7440-70-2	Calcium	5000	170000	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7439-89-6	Iron	300	1400	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7439-95-4	Magnesium	5000	23000	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7439-96-5	Manganese	40	1500	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	27	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7440-09-7	Potassium	5000	6100	1	50	50	07/13/17	60969	W21206B2	35	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7440-23-5	Sodium	5000	150000	1	50	50	07/13/17	60969	W21206B2	35	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	39	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98940-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	PC-FD-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/12/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	38	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	38	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	38	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	38	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	38	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	38	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	38	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	38	MS	MS2_7500SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98940-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	PC-3-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/12/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7440-39-3	Barium	50	140	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7440-70-2	Calcium	5000	72000	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7439-89-6	Iron	300	350	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7439-95-4	Magnesium	5000	19000	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7439-96-5	Manganese	40	240	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	07/17/17	60969	H21206SW	28	CV	HGCV2A
7440-02-0	Nickel	50	ND	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7440-09-7	Potassium	5000	5600	1	50	50	07/13/17	60969	W21206B2	36	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7440-23-5	Sodium	5000	81000	1	50	50	07/13/17	60969	W21206B2	36	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	07/13/17	60969	W21206A2	40	P	PEICP2A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC98940-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	PC-3-201707 F	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	7/12/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	07/14/17	60969	A071317A	39	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	07/14/17	60969	A071317A	39	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	07/14/17	60969	A071317A	39	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	07/14/17	60969	A071317A	39	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	07/14/17	60969	A071317A	39	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	07/14/17	60969	A071317A	39	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	07/14/17	60969	A071317A	39	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	07/14/17	60969	A071317A	39	MS	MS2_7500SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/13/17
Data File: SW21206B2
Prep Batch: 60969
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259476-8	CCB-21	CCB-32	CCB-44	MB 60969 (1)-11			
Potassium	5 U	5 U	5 U	5 U	5 U			
Sodium	5 U	5 U	5 U	5 U	5 U			

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/13/17
Data File: SW21206A2
Prep Batch: 60969
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259476-9	CCB-14	CCB-25	CCB-36	CCB-43	CCB-54	MB 60969 (1)-15
Aluminum	.2 U	.2 U	.2 U	.2 U	.2 U	.2 U	.2 U
Barium	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Calcium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chromium	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Copper	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Iron	.3 U	.3 U	.3 U	.3 U	.3 U	.3 U	.3 U
Magnesium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Manganese	.04 U	.04 U	.04 U	.04 U	.04 U	.04 U	.04 U
Nickel	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Silver	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U
Vanadium	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Zinc	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/13/17
Data File: A21207A2
Prep Batch: 60970
Reporting Limits Used: AQUEOUS,200.7(ICP)/200.8(ICPMS)/245.1(Hg)
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259476-8	CCB-12	CCB-22	CCB-29	CCB-40	MB 60970 (0.5)-13		
Aluminum	.2 U	.2 U	.2 U	.2 U	.2 U	.1U		
Antimony	.015 U	.015 U	.015 U	.015 U	.015 U	.0075U		
Arsenic	.04 U	.04 U	.04 U	.04 U	.04 U	.02U		
Barium	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		
Beryllium	.008 U	.008 U	.008 U	.008 U	.008 U	.004U		
Cadmium	.004 U	.004 U	.004 U	.004 U	.004 U	.002U		
Calcium	2 U	2 U	2 U	2 U	2 U	1U		
Chromium	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		
Cobalt	.02 U	.02 U	.02 U	.02 U	.02 U	.01U		
Copper	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		
Iron	.3 U	.3 U	.3 U	.3 U	.3 U	.15U		
Lead	.01 U	.01 U	.01 U	.01 U	.01 U	.005U		
Magnesium	2 U	2 U	2 U	2 U	2 U	1U		
Manganese	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		
Molybdenum	.02 U	.02 U	.02 U	.02 U	.02 U	.01U		
Nickel	.02 U	.02 U	.02 U	.02 U	.02 U	.01U		
Selenium	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		
Silver	.02 U	.02 U	.02 U	.02 U	.02 U	.01U		
Thallium	.01 U	.01 U	.01 U	.01 U	.01 U	.005U		
Tin	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		
Titanium	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		
Vanadium	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		
Zinc	.05 U	.05 U	.05 U	.05 U	.05 U	.025U		

Report only Ca, Mg
CB 7/22/17

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/14/17
Data File: S21210A3
Prep Batch: 60973
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259476-9	CCB V-259476-22	CCB V-259476-34	CCB V-259476-45	CCB V-259476-54	MB 60973 (100)-12
Barium	.1 U	.1 U	.1 U	.1 U	.1 U	10 U
Chromium	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Cobalt	.025 U	.025 U	.025 U	.025 U	.025 U	2.5 U
Copper	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Lead	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Manganese	.1 U	.1 U	.1 U	.1 U	.1 U	10 U
Nickel	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Vanadium	.1 U	.1 U	.1 U	.1 U	.1 U	10 U
Zinc	.1 U	.1 U	.1 U	.1 U	.1 U	10 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/14/17
Data File: S21210B3
Prep Batch: 60973
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259476-8	CCB V-259476-21	CCB V-259476-33	CCB V-259476-46	MB 60973 (100)-11
Aluminum	2 U	2 U	2 U	2 U	200 U
Calcium	10 U	10 U	10 U	10 U	1000 U
Iron	2 U	2 U	2 U	2 U	200 U
Magnesium	5 U	5 U	5 U	5 U	500 U
Potassium	5 U	5 U	5 U	5 U	500 U
Sodium	2.5 U	2.5 U	2.5 U	2.5 U	250 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/14/17
Data File: S071417B
Prep Batch: 60974
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259571-10	CCB V-259571-16	CCB V-259571-29	CCB V-259571-42	CCB V-259571-55	CCB V-259571-59	MB 60974-17
Antimony	4 U	4 U	4 U	4 U	4 U	4 U	800 U
Arsenic	1 U	1 U	1 U	1 U	1 U	1 U	200 U
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U	200 U
Cadmium	2 U	2 U	2 U	2 U	2 U	2 U	400 U
Selenium	10 U	10 U	10 U	10 U	10 U	10 U	2000 U
Silver	1 U	1 U	1 U	1 U	1 U	1 U	200 U
Thallium	2 U	2 U	2 U	2 U	2 U	2 U	400 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/14/17
Data File: A071317A
Prep Batch: 60969
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259571-10	CCB V-259571-17	CCB V-259571-30	CCB V-259571-43	CCB V-259571-47	MB 60969-18
Antimony	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3 U
Arsenic	1 U	1 U	1 U	1 U	1 U	2 U
Beryllium	.5 U	.5 U	.5 U	.5 U	.5 U	1 U
Cadmium	1 U	1 U	1 U	1 U	1 U	2 U
Cobalt	1 U	1 U	1 U	1 U	1 U	2 U
Lead	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3 U
Selenium	5 U	5 U	5 U	5 U	5 U	10 U
Thallium	1 U	1 U	1 U	1 U	1 U	2 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/17/17
Data File: S21210C3
Prep Batch: 60973
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259476-9	CCB V-259476-19						
Lead	.05 U	.05 U						
Manganese	.1 U	.1 U						

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/17/17
Data File: S071717A
Prep Batch: 60974
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-259571-10	CCB V-259571-23	CCB V-259571-35
Beryllium	1 U	1 U	1 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/15/17
Data File: H21210S
Prep Batch: 60973
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	CCB-39	MB 60973 (167)-11
Mercury	.5 U	.5 U	.5 U	.5 U	83 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 07/17/17
Data File: H21206SW
Prep Batch: 60969
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7071123

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-21	CCB-30	MB 60969 (1)-11
Mercury	.5 U	.5 U	.5 U	.5 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 60973

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MS Matrix: SOIL SampleID: AC98935-014

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	60973	1	S21210B3	16	S21210B3	14	41.0190	34.2468	5.0	135	b	75	125
Barium	60973	1	S21210A3	17	S21210A3	15	1.1656	0.4805	0.5	137	a	75	125
Calcium	60973	1	S21210B3	16	S21210B3	14	55.6854	11.2919	50	89		75	125
Chromium	60973	1	S21210A3	17	S21210A3	15	0.6004	0.1697	0.5	86		75	125
Cobalt	60973	1	S21210A3	17	S21210A3	15	0.4897	0.025U	0.5	98		75	125
Copper	60973	1	S21210A3	17	S21210A3	15	0.4778	0.05U	0.5	96		75	125
Iron	60973	1	S21210B3	16	S21210B3	14	66.7641	56.0353	5.0	215	b	75	125
Lead	60973	1	S21210A3	17	S21210A3	15	0.4780	0.0955	0.5	77		75	125
Magnesium	60973	1	S21210B3	16	S21210B3	14	53.5541	9.0784	50	89		75	125
Manganese	60973	1	S21210A3	17	S21210A3	15	0.9314	0.3448	0.5	117		75	125
Mercury	60973	1	H21210S	18	H21210S	16	9.6601	.5U	10	97		75	125
Nickel	60973	1	S21210A3	17	S21210A3	15	0.5115	0.05U	0.5	102		75	125
Potassium	60973	1	S21210B3	16	S21210B3	14	44.4258	5U	50	89		75	125
Sodium	60973	1	S21210B3	16	S21210B3	14	45.5960	2.5U	50	91		75	125
Vanadium	60973	1	S21210A3	17	S21210A3	15	0.7240	0.1983	0.5	105		75	125
Zinc	60973	1	S21210A3	17	S21210A3	15	0.5988	0.1568	0.5	88		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 60974

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 60974

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	60974	1	S071417B	19	26.8000	88.2	30		0.02	197.3
Arsenic	60974	1	S071417B	19	56.5000	57	99		75.1	124.9
Beryllium	60974	1	S071417B	19	62.7500	67.5	93		82.8	117.2
Cadmium	60974	1	S071417B	19	76.2000	77.8	98		82.8	117.2
Selenium	60974	1	S071417B	19	76.9500	78.9	98		77.6	122.4
Silver	60974	1	S071417B	19	53.3600	54.2	98		74.7	125.3
Thallium	60974	1	S071417B	19	180.4000	178	101		79.2	120.2

TxtQcType: LCS Matrix: SOIL SampleID: LCS 60974

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	60974	1	S071417B	18	27.2300	88.2	31		0.02	197.3
Arsenic	60974	1	S071417B	18	57.3900	57	101		75.1	124.9
Beryllium	60974	1	S071417B	18	63.0500	67.5	93		82.8	117.2
Cadmium	60974	1	S071417B	18	76.7700	77.8	99		82.8	117.2
Selenium	60974	1	S071417B	18	77.9900	78.9	99		77.6	122.4
Silver	60974	1	S071417B	18	53.4300	54.2	99		74.7	125.3
Thallium	60974	1	S071417B	18	181.5000	178	102		79.2	120.2

TxtQcType: MSD Matrix: SOIL SampleID: AC98935-014

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	60974	1	S071417B	24	S071417B	20	32.7900	4U	250	13	a	75	125
Arsenic	60974	1	S071417B	24	S071417B	20	216.3000	6.6650	250	84		75	125
Beryllium	60974	1	S071417B	24	S071417B	20	168.9000	1U	250	68	a	75	125
Cadmium	60974	1	S071417B	24	S071417B	20	206.2000	2U	250	82		75	125
Selenium	60974	1	S071417B	24	S071417B	20	194.6000	10U	250	78		75	125
Silver	60974	1	S071417B	24	S071417B	20	32.6500	1U	50	65	a	75	125
Thallium	60974	1	S071417B	24	S071417B	20	195.8000	2U	250	78		75	125

TxtQcType: MS Matrix: SOIL SampleID: AC98935-014

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	60974	1	S071417B	23	S071417B	20	33.9300	4U	250	14	a	75	125
Arsenic	60974	1	S071417B	23	S071417B	20	232.9000	6.6650	250	90		75	125
Beryllium	60974	1	S071417B	23	S071417B	20	175.8000	1U	250	70	a	75	125
Cadmium	60974	1	S071417B	23	S071417B	20	215.8000	2U	250	86		75	125
Selenium	60974	1	S071417B	23	S071417B	20	198.5000	10U	250	79		75	125
Silver	60974	1	S071417B	23	S071417B	20	33.8200	1U	50	68	a	75	125
Thallium	60974	1	S071417B	23	S071417B	20	205.7000	2U	250	82		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 60969

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD Matrix: AQUEOUS SampleID: AC98905-002

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	60969	SW21206	26	SW21206	18	5	-0.0123	0.0326	---		10
Barium	60969	SW21206	26	SW21206	18	5	0.0160	0.0849	6		10
Calcium	60969	SW21206	26	SW21206	18	5	12.2247	60.3849	1.2		10
Chromium	60969	SW21206	26	SW21206	18	5	-0.0009	0.0005	---		10
Copper	60969	SW21206	26	SW21206	18	5	0.0006	0.0022	---		10
Iron	60969	SW21206	26	SW21206	18	5	-0.0015	0.0479	---		10
Magnesium	60969	SW21206	26	SW21206	18	5	4.3721	21.7369	0.57		10
Manganese	60969	SW21206	26	SW21206	18	5	0.0063	0.0348	9.8		10
Nickel	60969	SW21206	26	SW21206	18	5	-0.0013	-0.0008	---		10
Potassium	60969	SW21206	22	SW21206	14	5	1.0998	3.1470	75	a	10
Silver	60969	SW21206	26	SW21206	18	5	0.0000	0.0001	---		10
Sodium	60969	SW21206	22	SW21206	14	5	4.4654	21.9654	1.6		10
Vanadium	60969	SW21206	26	SW21206	18	5	0.0003	0.0078	---		10
Zinc	60969	SW21206	26	SW21206	18	5	0.0013	0.0085	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 60970

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD Matrix: AQUEOUS SampleID: AC98939-001

Analyte	Data File	Seq#:	MS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	A21207A2	23	A21207A2	16	5	-0.0062	0.0370	---		10
Barium	A21207A2	23	A21207A2	16	5	0.0001	0.0010	---		10
Calcium	A21207A2	23	A21207A2	16	5	-0.0227	0.0541	---		10
Chromium	A21207A2	23	A21207A2	16	5	0.0001	0.0002	---		10
Copper	A21207A2	23	A21207A2	16	5	0.0025	0.0097	30	c	10
Iron	A21207A2	23	A21207A2	16	5	0.0198	0.1260	21	c	10
Magnesium	A21207A2	23	A21207A2	16	5	-0.1921	-0.1833	---		10
Manganese	A21207A2	23	A21207A2	16	5	0.0032	0.0156	2.6		10
Molybdenum	A21207A2	23	A21207A2	16	5	0.0014	0.0022	236	c	10
Nickel	A21207A2	23	A21207A2	16	5	-0.0008	0.0000	---		10
Silver	A21207A2	23	A21207A2	16	5	-0.0002	0.0002	---		10
Tin	A21207A2	23	A21207A2	16	5	0.0004	0.0006	---		10
Titanium	A21207A2	23	A21207A2	16	5	0.0019	0.0026	260	a	10
Vanadium	A21207A2	23	A21207A2	16	5	-0.0003	0.0011	---		10
Zinc	A21207A2	23	A21207A2	16	5	0.0029	0.0141	---		10

Report only Ca, Mg

CB 7/22/17

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 60973

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: SOIL SampleID: AC98935-014

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	60973	S21210B3	17	S21210B3	16	43.3464	41.0190	5.5		20
Barium	60973	S21210A3	18	S21210A3	17	0.9368	1.1656	22	a	20
Calcium	60973	S21210B3	17	S21210B3	16	59.0240	55.6854	5.8		20
Chromium	60973	S21210A3	18	S21210A3	17	0.6198	0.6004	3.2		20
Cobalt	60973	S21210A3	18	S21210A3	17	0.5001	0.4897	2.1		20
Copper	60973	S21210A3	18	S21210A3	17	0.5025	0.4778	5		20
Iron	60973	S21210B3	17	S21210B3	16	60.6678	66.7641	9.6		20
Lead	60973	S21210A3	18	S21210A3	17	0.5272	0.4780	9.8		20
Magnesium	60973	S21210B3	17	S21210B3	16	56.2751	53.5541	5		20
Manganese	60973	S21210A3	18	S21210A3	17	0.7848	0.9314	17		20
Mercury	60973	H21210S	19	H21210S	18	9.8281	9.6601	1.7		20
Nickel	60973	S21210A3	18	S21210A3	17	0.5251	0.5115	2.6		20
Potassium	60973	S21210B3	17	S21210B3	16	48.2589	44.4258	8.3		20
Sodium	60973	S21210B3	17	S21210B3	16	47.4059	45.5960	3.9		20
Vanadium	60973	S21210A3	18	S21210A3	17	0.6311	0.7240	14		20
Zinc	60973	S21210A3	18	S21210A3	17	0.5985	0.5988	.053		20

TxtQcType: SD Matrix: SOIL SampleID: AC98935-014

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	60973	S21210B3	22	S21210B3	14	5	7.2256	34.2468	5.5		10
Barium	60973	S21210A3	23	S21210A3	15	5	0.1027	0.4805	6.8		10
Calcium	60973	S21210B3	22	S21210B3	14	5	2.5032	11.2919	11	a	10
Chromium	60973	S21210A3	23	S21210A3	15	5	0.0364	0.1697	7.1		10
Cobalt	60973	S21210A3	23	S21210A3	15	5	0.0002	0.0185	---		10
Copper	60973	S21210A3	23	S21210A3	15	5	0.0104	0.0440	18	c	10
Iron	60973	S21210B3	22	S21210B3	14	5	11.6756	56.0353	4.2		10
Lead	60973	S21210A3	23	S21210A3	15	5	0.0201	0.0955	5.3		10
Magnesium	60973	S21210B3	22	S21210B3	14	5	1.9655	9.0784	8.3		10
Manganese	60973	S21210A3	23	S21210A3	15	5	0.0706	0.3448	2.4		10
Nickel	60973	S21210A3	23	S21210A3	15	5	0.0040	0.0413	51	c	10
Potassium	60973	S21210B3	22	S21210B3	14	5	0.9964	2.6880	85	c	10
Sodium	60973	S21210B3	22	S21210B3	14	5	0.4355	0.7776	180	c	10
Vanadium	60973	S21210A3	23	S21210A3	15	5	0.0438	0.1983	10		10
Zinc	60973	S21210A3	23	S21210A3	15	5	0.0308	0.1568	1.8		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 60974

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 60974

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	60974	S071417B	19	S071417B	18	26.8000	27.2300	1.6		20
Arsenic	60974	S071417B	19	S071417B	18	56.5000	57.3900	1.6		20
Beryllium	60974	S071417B	19	S071417B	18	62.7500	63.0500	.48		20
Cadmium	60974	S071417B	19	S071417B	18	76.2000	76.7700	.75		20
Selenium	60974	S071417B	19	S071417B	18	76.9500	77.9900	1.3		20
Silver	60974	S071417B	19	S071417B	18	53.3600	53.4300	.13		20
Thallium	60974	S071417B	19	S071417B	18	180.4000	181.5000	.61		20

TxtQcType: MR Matrix: SOIL SampleID: AC98935-014

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	60974	S071417B	21	S071417B	20	4U	4U	---		20
Arsenic	60974	S071417B	21	S071417B	20	10.4100	6.6650	44	a	20
Beryllium	60974	S071417B	21	S071417B	20	1U	1U	---		20
Cadmium	60974	S071417B	21	S071417B	20	2U	2U	---		20
Selenium	60974	S071417B	21	S071417B	20	10U	10U	---		20
Silver	60974	S071417B	21	S071417B	20	1U	1U	---		20
Thallium	60974	S071417B	21	S071417B	20	2U	2U	---		20

TxtQcType: MSD Matrix: SOIL SampleID: AC98935-014

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	60974	S071417B	24	S071417B	23	32.7900	33.9300	3.4		20
Arsenic	60974	S071417B	24	S071417B	23	216.3000	232.9000	7.4		20
Beryllium	60974	S071417B	24	S071417B	23	168.9000	175.8000	4		20
Cadmium	60974	S071417B	24	S071417B	23	206.2000	215.8000	4.5		20
Selenium	60974	S071417B	24	S071417B	23	194.6000	198.5000	2		20
Silver	60974	S071417B	24	S071417B	23	32.6500	33.8200	3.5		20
Thallium	60974	S071417B	24	S071417B	23	195.8000	205.7000	4.9		20

TxtQcType: SD Matrix: SOIL SampleID: AC98935-014

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Antimony	60974	S071417B	22	S071417B	20	5	0.0019	0.0587	---		10
Arsenic	60974	S071417B	22	S071417B	20	5	1.3840	6.6650	3.8		10
Beryllium	60974	S071417B	22	S071417B	20	5	0.1539	0.6855	12	c	10
Cadmium	60974	S071417B	22	S071417B	20	5	0.0496	0.1996	24	c	10
Selenium	60974	S071417B	22	S071417B	20	5	0.7555	2.8210	34	c	10
Silver	60974	S071417B	22	S071417B	20	5	0.0228	0.1034	10		10
Thallium	60974	S071417B	22	S071417B	20	5	0.0381	0.1615	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AC98905-001 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: LMW-2-201707 U | Collect Date: 7/10/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICW	1	15	mg/L	2.0	07/19/17	07/19/17

Lab#: AC98905-002 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: LMW-2-201707 F | Collect Date: 7/10/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Lab#: AC98905-003 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: LMW-4-201707 U | Collect Date: 7/10/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICW	1	16	mg/L	2.0	07/19/17	07/19/17

Lab#: AC98905-004 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: LMW-4-201707 F | Collect Date: 7/10/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Lab#: AC98905-005 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: PC-2-201707 U | Collect Date: 7/10/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICW	1	18	mg/L	2.0	07/19/17	07/19/17

Lab#: AC98905-006 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: PC-2-201707 F | Collect Date: 7/10/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Lab#: AC98905-007 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: SW-4-201707 U | Collect Date: 7/11/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICW	1	10	mg/L	2.0	07/19/17	07/19/17
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Lab#: AC98905-009 | Project Number: 7071123
Matrix: Sediment/Encore | Received Date: 7/11/2017
Client SampleID: SD-4-201707 | Collect Date: 7/11/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICS	1	ND	mg/Kg	29	07/12/17	07/12/17
Cyanide	CN-S-9012	1	ND	mg/Kg	0.35	07/13/17	07/13/17

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AC98905-010 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: SW-2-201707 U | Collect Date: 7/11/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICW	1	7.0	mg/L	2.0	07/19/17	07/19/17
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Lab#: AC98905-012 | Project Number: 7071123
Matrix: Sediment/Encore | Received Date: 7/11/2017
Client SampleID: SD-2-201707 | Collect Date: 7/11/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICS	1	ND	mg/Kg	170	07/12/17	07/13/17
Cyanide	CN-S-9012	1	ND	mg/Kg	2.0	07/13/17	07/13/17

Lab#: AC98905-013 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: SW-1-201707 U | Collect Date: 7/11/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICW	1	5.4	mg/L	2.0	07/19/17	07/19/17
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Lab#: AC98905-015 | Project Number: 7071123
Matrix: Sediment/Encore | Received Date: 7/11/2017
Client SampleID: SD-1-201707 | Collect Date: 7/11/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICS	1	ND	mg/Kg	42	07/12/17	07/13/17
Cyanide	CN-S-9012	1	ND	mg/Kg	0.50	07/13/17	07/13/17

Lab#: AC98905-017 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: MW-11-201707 U | Collect Date: 7/11/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Alkalinity	ALKALIN-MUR	1	280	mg CaCO3/l	10	07/17/17	07/17/17
Alkalinity	ALK-BICARB	1	280	mg CaCO3/L	10	07/17/17	07/17/17
Alkalinity	ALK-CARB	1	ND	mg CaCO3/L	10	07/17/17	07/17/17
Nitrate	NO3-ICW	1	ND	mg/L	1.0	07/12/17	07/12/17
Sulfate	SO4-ICW	1	8.5	mg/L	2.0	07/12/17	07/12/17

Lab#: AC98905-019 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/11/2017
Client SampleID: SW-FD-201707 U | Collect Date: 7/11/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICW	1	6.9	mg/L	2.0	07/19/17	07/19/17
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AC98940-001 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/12/2017
Client SampleID: PC-1-201707 U | Collect Date: 7/12/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Alkalinity	ALKALIN-MUR	1	390	mg CaCO3/l	10	07/17/17	07/17/17
Alkalinity	ALK-BICARB	1	390	mg CaCO3/L	10	07/17/17	07/17/17
Alkalinity	ALK-CARB	1	ND	mg CaCO3/L	10	07/17/17	07/17/17
Chloride	CHLORIDE-ICW	10	260	mg/L	20	07/14/17	07/15/17
Nitrate	NO3-ICW	1	ND	mg/L	1.0	07/12/17	07/12/17
Sulfate	SO4-ICW	10	120	mg/L	20	07/14/17	07/15/17
Sulfide (Total)	SULFIDE-MUR	1	ND	mg/l	2	07/14/17	07/14/17

Lab#: AC98940-002 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/12/2017
Client SampleID: PC-1-201707 F | Collect Date: 7/12/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Lab#: AC98940-003 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/12/2017
Client SampleID: PC-FD-201707 U | Collect Date: 7/12/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Alkalinity	ALKALIN-MUR	1	400	mg CaCO3/l	10	07/17/17	07/17/17
Alkalinity	ALK-BICARB	1	400	mg CaCO3/L	10	07/17/17	07/17/17
Alkalinity	ALK-CARB	1	ND	mg CaCO3/L	10	07/17/17	07/17/17
Chloride	CHLORIDE-ICW	10	260	mg/L	20	07/14/17	07/15/17
Nitrate	NO3-ICW	1	ND	mg/L	1.0	07/12/17	07/12/17
Sulfate	SO4-ICW	10	110	mg/L	20	07/14/17	07/15/17
Sulfide (Total)	SULFIDE-MUR	1	ND	mg/l	2	07/14/17	07/14/17

Lab#: AC98940-004 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/12/2017
Client SampleID: PC-FD-201707 F | Collect Date: 7/12/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Lab#: AC98940-005 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/12/2017
Client SampleID: PC-3-201707 U | Collect Date: 7/12/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Chloride	CHLORIDE-ICW	10	230	mg/L	20	07/14/17	07/15/17

Lab#: AC98940-006 | Project Number: 7071123
Matrix: Aqueous | Received Date: 7/12/2017
Client SampleID: PC-3-201707 F | Collect Date: 7/12/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide	CN-W-9012	1	ND	mg/L	0.020	07/13/17	07/13/17

Analysis Type: ALKAL-M

Batch Number: ALKAL-M-518

Units: mg CaCO3/l

Calibration Curve Information

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
DUP	AC98905-017	0	NA	20	275	NA	1 8	
LCS	LCS	100	75-125	NA	102	102	NA	
LCSD	LCSD	100	75-125	20	102	102	0	

Analytical Method(s)

SM2320B-97

Sam #	Type	MB	Result	RL	Per Sol	Full Result	ml h2so4	h2so4 (N)	Sam Vol (ml)	Prep Date	Prep By	Anal Date	Anal By
MB-1-07/17/17	MB	MB-1-07/17/17	ND	5	100	2	0.20	0.02	100	07/17/17	BCT	07/17/17	BCT
LCS	LCS	MB-1-07/17/17	100	10	100	102	5.10	0.02	50	07/17/17	BCT	07/17/17	BCT
LCSD	LCSD	MB-1-07/17/17	100	10	100	102	5.10	0.02	50	07/17/17	BCT	07/17/17	BCT
AC98905-017	DUP	MB-1-07/17/17	280	10	100	275	2.75	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98905-017	Sample	MB-1-07/17/17	280	10	100	280	2.80	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98940-001	Sample	MB-1-07/17/17	390	10	100	390	3.90	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98940-003	Sample	MB-1-07/17/17	400	10	100	400	4.00	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-001	Sample	MB-1-07/17/17	320	10	100	320	3.20	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-003	Sample	MB-1-07/17/17	250	10	100	250	2.50	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-005	Sample	MB-1-07/17/17	460	10	100	455	4.55	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-007	Sample	MB-1-07/17/17	320	10	100	325	3.25	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-010	Sample	MB-1-07/17/17	340	10	100	345	3.45	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-001	Sample	MB-1-07/17/17	540	10	100	535	5.35	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-003	Sample	MB-1-07/17/17	75	10	100	75	0.75	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-005	Sample	MB-1-07/17/17	400	10	100	405	4.05	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-007	Sample	MB-1-07/17/17	380	10	100	385	3.85	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-009	Sample	MB-1-07/17/17	75	10	100	75	0.75	0.1	50	07/17/17	BCT	07/17/17	BCT

7/17/17

JW 7/18/17

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

Analysis Type: ALKAL-P

Batch Number: ALKAL-P-69

Units: mg CaCO3/l

Calibration Curve Information

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
DUP	AC98907-017	0	NA	20	0	NA	NA	Nc
LCS	LCS	100	75-125	NA	93	93	NA	
LCSD	LCSD	100	75-125	20	94	94	1 1	

Analytical Method(s)

SM2320B-97

Sam #	Type	MB	Result	RL	Per Sol	Full Result	ml h2so4	h2so4 (N)	Sam Vol (ml)	Prep Date	Prep By	Anal Date	Anal By
MB-1-07/17/17	MB	MB-1-07/17/17	ND	5	100	0	0.0	0.02	100	07/17/17	BCT	07/17/17	BCT
LCS	LCS	MB-1-07/17/17	93	10	100	93	4.65	0.02	50	07/17/17	BCT	07/17/17	BCT
LCSD	LCSD	MB-1-07/17/17	94	10	100	94	4.70	0.02	50	07/17/17	BCT	07/17/17	BCT
AC98907-017	DUP	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98905-017	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98940-001	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98940-003	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-001	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-003	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-005	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-007	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98967-010	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-001	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-003	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-005	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-007	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT
AC98993-009	Sample	MB-1-07/17/17	ND	10	100	0	0.0	0.1	50	07/17/17	BCT	07/17/17	BCT

7/17/17

7/18/17

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

Carbonate / Bicarbonate

	Analysis	Carbonate / Bicarbonate			Q.C. DATA			Limits	Flags
	Batch#	67							
	Date	7/17/2017			LCS RPD				
	Analyst	BCT			LCS	102	RPD		
					LCSD	102	0.0	20	
					Carbonate RPD				
		Titrant Result	Carbonate	Bicarbonate	Sample	0	RPD		
		P = 0	0	M	Sample Dup	0	NA	20	
		P < (1/2) M	2P	M-2P					
		P = (1/2) M	2P	0					
		P > (1/2) M	2 (M-P)	0	Bicarbonate RPD				
		P = M	0	0	Sample	280	RPD		
					Sample Dup	275	1.80	20	

	Samples #	M-Alkalinity (Total)	P-Alkalinity	Carbonate CO3-2 as mg CaCO3/L	Bicarbonate HCO3 as mg CaCO3/L	RL		% Recovery 75-125%	
	MB	2.0	0.00	0.00	2.0	5			
	LCS	102	93	18	0	10		102	
	LCSD	102	94	16	0	10		102	
	AC98905-017 Dup	275	0.00	0.00	275	10			
QC Sample	AC98905-017	280	0.00	0.00	280	10			
	AC98940-001	390	0.00	0.00	390	10			
	AC98940-003	400	0.00	0.00	400	10			
	AC98967-001	320	0.00	0.00	320	10			
	AC98967-003	250	0.00	0.00	250	10			
	AC98967-005	455	0.00	0.00	455	10			
	AC98967-007	325	0.00	0.00	325	10			
	AC98967-010	345	0.00	0.00	345	10			
	AC98993-001	535	0.00	0.00	535	10			
	AC98993-003	75	0.00	0.00	75	10			
	AC98993-005	405	0.00	0.00	405	10			
	AC98993-007	385	0.00	0.00	385	10			
	AC98993-009	75	0.00	0.00	75	10			

JW
7/18/17

* Recovery is outside specified QC limits

Analysis Type: TSULFIDE-W

Batch Number: TSULFIDE-W-344

Units: mg/l

Calibration Curve Information

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-07/14/17	16	90-110	NA	16.43075	103	NA	
DUP	AC98940-001	0	NA	20	1.20225	NA	NA	Nc
LCS	LCS	16	75-125	NA	16.03	100	NA	
MS	AC98940-001	16	75-125	NA	17.633	110	NA	
MSD	AC98940-001	16	75-125	20	18.03375	113	2.2	

Analytical Method(s)

SM4500-S2F11

Sam #	Type	MB	Result	RL	Per Sol	Full Result	Tit Vol	Iod Vol	Sam Vol (ml)	Prep Date	Prep By	Anal Date	Anal By
CAL-01-07/14/17	CAL-01		16		100	16.431	5.9	10	100			07/14/17	JMP
MB-1-07/14/17	MB	MB-1-07/14/17	ND	2	100	0.40075	9.9	10	100	07/14/17	JMP	07/14/17	JMP
LCS	LCS	MB-1-07/14/17	16	2	100	16.03	6.0	10	100	07/14/17	JMP	07/14/17	JMP
AC98940-001	MS	MB-1-07/14/17	18	2	100	17.633	5.6	10	100	07/14/17	JMP	07/14/17	JMP
AC98940-001	MSD	MB-1-07/14/17	18	2	100	18.034	5.5	10	100	07/14/17	JMP	07/14/17	JMP
AC98940-001	DUP	MB-1-07/14/17	ND	2	100	1.2022	9.7	10	100	07/14/17	JMP	07/14/17	JMP
AC98940-001	Sample	MB-1-07/14/17	ND	2	100	0.8015	9.8	10	100	07/14/17	JMP	07/14/17	JMP
AC98940-003	Sample	MB-1-07/14/17	ND	2	100	1.603	9.6	10	100	07/14/17	JMP	07/14/17	JMP

JMP 7/14/17

JW 7/14/17

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL) Rp - RPD failed specified criteria.
Na - Not Applicable Nc - Not Checked ..either one or both values =ND

MS/MSD/DUP Recovery

7071123 0229

Prep Batch: S-1828 Sample ID: AC98893-003
Method: EPA 9012B Matrix: Soil

Qc Type: DUP	Limits		DUP	Sample		MS/MSD/DUP			Non Spike		
Analyte	Rpd	Dil	Conc	Conc	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	35	1	0	0	NA		20170713115	15	07/13/17 12:30	20170713115	14	07/13/17 12:27

Qc Type: MS		Limits		MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	1	0.3856	0	96		20170713115	16	07/13/17 12:32	20170713115	14	07/13/17 12:27

Qc Type: MSD		Limits		MSD	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	20	1	0.385	0	96	0.2		20170713115	17	07/13/17 12:34	20170713115	14	07/13/17 12:27

LCS Recoveries

	BatchRunID/RunID:====>		201707131157-12							
	QcBatchID:====>		LCSS-1828							
	Date/Time:====>		07/13/17 12:22							
	Analytical Method:====>		EPA 9012B							
	Matrix:====>		Soil		Soil		Soil		Soil	
	EPA 9012B									
Analyte	**Amt Limits**	**Amt Limits**	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Cyanide	0.4 80-120		104							

Calibration Summary:

7071123 0231

Instrument: DA1
Analysis Meth: EPA 9012B

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide	20170713115	9	ICV	103	0.4	85-115
Cyanide	20170713115	21	CCV	106	0.4	85-115
Cyanide	20170713115	33	CCV	103	0.4	85-115
Cyanide	20170713115	40	CCV	109	0.4	85-115

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 7/13/17

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170713115	7/13/17 12:20	MBS-1828	11	Cyanide	ND	0.020

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170713115	7/13/17 12:18	CCB	10	Cyanide	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170713115	7/13/17 12:46	CCB	22	Cyanide	ND	0.020
20170713115	7/13/17 13:14	CCB	34	Cyanide	ND	0.020
20170713115	7/13/17 13:27	CCB	41	Cyanide	ND	0.020

MS/MSD/DUP Recovery

7071123 0233

Prep Batch: W-1207 Sample ID: AC98940-002
Method: EPA 9012B Matrix: Aqueous

Qc Type: DUP	Limits		DUP	Sample			MS/MSD/DUP			Non Spike		
Analyte	Rpd	Dil	Conc	Conc	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	35	1	0	0	NA		20170713134	15	07/13/17 14:20	20170713134	14	07/13/17 14:17

Qc Type: MS		Limits		MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	1	0.3935	0	98		20170713134	16	07/13/17 14:22	20170713134	14	07/13/17 14:17

Qc Type: MSD		Limits		MSD	Sample				MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	20	1	0.3854	0	96	2.1		20170713134	17	07/13/17 14:24	20170713134	14	07/13/17 14:17

LCS Recoveries

	BatchRunID/RunID:====>	201707131347-12							
	QcBatchID:====>	LCSW-1207							
	Date/Time:====>	07/13/17 14:13							
	Analytical Method:====>	EPA 9012B							
	Matrix:====>	Aqueous	Soil		Soil		Soil		Soil	
	EPA 9012B									
Analyte	**Amt Limits**	**Amt Limits**	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Cyanide	0.4 80-120		97									

Calibration Summary:

Instrument: DA1
Analysis Meth: EPA 9012B

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide	20170713134	9	ICV	106	0.4	85-115
Cyanide	20170713134	21	CCV	102	0.4	85-115
Cyanide	20170713134	29	CCV	108	0.4	85-115

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 7/13/17

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170713134	7/13/17 14:10	MBW-1207	11	Cyanide	ND	0.020

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170713134	7/13/17 14:08	CCB	10	Cyanide	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170713134	7/13/17 14:36	CCB	22	Cyanide	ND	0.020
20170713134	7/13/17 14:51	CCB	30	Cyanide	ND	0.020

MS/MSD/DUP Recovery

Prep Batch: S-1229 Sample ID: AC98802-001
Method: EPA 9056A Matrix: Soil

Qc Type: MS	Limits			MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120	1	6.7107	2.2951	88		20170619101	312	07/12/17 21:30	20170619101	311	07/12/17 21:03
Nitrate	5	80-120	1	5.3372	0	107		20170619101	312	07/12/17 21:30	20170619101	311	07/12/17 21:03
Sulfate	5	80-120	1	12.4938	6.5044	120		20170619101	312	07/12/17 21:30	20170619101	311	07/12/17 21:03

Qc Type: MSD	Limits				MSD	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120	20	1	6.6535	2.2951	87	0.9		20170619101	313	07/12/17 21:57	20170619101	311	07/12/17 21:03
Nitrate	5	80-120	20	1	5.3014	0	106	0.7		20170619101	313	07/12/17 21:57	20170619101	311	07/12/17 21:03
Sulfate	5	80-120	20	1	12.5443	6.5044	121	0.4	Ms	20170619101	313	07/12/17 21:57	20170619101	311	07/12/17 21:03

Prep Batch: W-2017 Sample ID: AC98905-017
Method: 300.0 rev2.1 Matrix: Aqueous

Qc Type: MS	Limits			MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120	1	215.318	210.402	98		20170619101	292	07/12/17 12:26	20170619101	291	07/12/17 11:59
Nitrate	5	80-120	1	4.5864	0	92		20170619101	292	07/12/17 12:26	20170619101	291	07/12/17 11:59
Sulfate	5	80-120	1	14.0904	8.5399	111		20170619101	292	07/12/17 12:26	20170619101	291	07/12/17 11:59

Qc Type: MSD	Limits				MSD	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120	20	1	212.549	210.402	43	1.3	MW	20170619101	293	07/12/17 12:54	20170619101	291	07/12/17 11:59
Nitrate	5	80-120	20	1	4.5606	0	91	0.6		20170619101	293	07/12/17 12:54	20170619101	291	07/12/17 11:59
Sulfate	5	80-120	20	1	14.1619	8.5399	112	0.5		20170619101	293	07/12/17 12:54	20170619101	291	07/12/17 11:59

Prep Batch: W-2022 Sample ID: AC99017-001
Method: 300.0 rev2.1 Matrix: Aqueous

Qc Type: MS	Limits			MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120	1	406.088	401.616	89		20170718133	16	07/19/17 15:11	20170718133	15	07/19/17 14:44
Nitrate	5	80-120	1	5.2226	0	104		20170718133	16	07/19/17 15:11	20170718133	15	07/19/17 14:44
Sulfate	5	80-120	1	37.1925	31.2624	119		20170718133	16	07/19/17 15:11	20170718133	15	07/19/17 14:44

Qc Type: MSD	Limits				MSD	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120	20	1	406.136	401.616	90	0		20170718133	17	07/19/17 15:38	20170718133	15	07/19/17 14:44
Nitrate	5	80-120	20	1	5.2322	0	105	0.2		20170718133	17	07/19/17 15:38	20170718133	15	07/19/17 14:44
Sulfate	5	80-120	20	1	37.3563	31.2624	122	0.4	MW	20170718133	17	07/19/17 15:38	20170718133	15	07/19/17 14:44

LCS Recoveries

	BatchRunID/RunID:====>	201706191011-310	201706191011-290	201707181330-14		
	QcBatchID:====>	LCSS-1229	LCSW-2017	LCSW-2022		
	Date/Time:====>	07/12/17 20:36	07/12/17 11:25	07/19/17 14:02		
	Analytical Method:====>	EPA 9056A	300.0 rev2.1	300.0 rev2.1		
	Matrix:====>	Soil	Aqueous	Aqueous	Soil	Soil
	300.0 rev2. EPA 9056A					
Analyte	Amt Limits Amt Limits	% Rec Flags	% Rec Flags	% Rec Flags	% Rec Flags	% Rec Flags
Chloride	5 90-110 5 80-120	102	101	109		
Nitrate	5 90-110 5 80-120	93	92	96		
Sulfate	5 90-110 5 80-120	90	91	107		

7071123 0239

Calibration Curve

Instrument: IC1
Analysis Date: 06/19/17
Analytical Methods: 300.0 rev2.1;EPA 9056;EPA 9056A

		Area Found						Concentration Amount						
Batch ID:	Analyte:	Area1	Area2	Area3	Area4	Area5	Area6	Conc1	Conc2	Conc3	Conc4	Conc5	Conc6	rSq
201706191011	Chloride	0	0.24	1.114	2.284	4.721	13.556	0	1	5	10	20	50	99.719
201706191011	Nitrate	0	0.551	2.829	5.869	11.975		0	1	5	10	20	50	99.984
201706191011	Sulfate	0	0.194	0.991	1.825	3.387	8.813	0	1	5	10	20	50	99.934
201707181330	Chloride	0	0.233	1.072	2.147	4.564	13.732	0	1	5	10	20	50	99.51
201707181330	Nitrate	0	0.564	2.754	5.651	12.247		0	1	5	10	20	50	99.816
201707181330	Sulfate	0	0.208	0.89	1.671	3.266	8.924	0	1	5	10	20	50	99.847

Calibration Summary:

Instrument: IC1
Analysis Meth: 300.0 rev2.1

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Chloride	20170619101	8	ICV	97	10	90-110
Chloride	20170619101	287	CCV	92	10	90-110
Chloride	20170619101	299	CCV	92	10	90-110
Chloride	20170619101	307	CCV	92	10	90-110
Chloride	20170619101	319	CCV	92	10	90-110
Chloride	20170619101	325	CCV	92	10	90-110
Chloride	20170718133	8	ICV	98	10	90-110
Chloride	20170718133	11	CCV	98	10	90-110
Chloride	20170718133	23	CCV	97	10	90-110
Chloride	20170718133	34	CCV	98	10	90-110
Nitrate	20170619101	8	ICV	102	10	90-110
Nitrate	20170619101	287	CCV	96	10	90-110
Nitrate	20170619101	299	CCV	97	10	90-110
Nitrate	20170619101	307	CCV	97	10	90-110
Nitrate	20170619101	319	CCV	97	10	90-110
Nitrate	20170619101	325	CCV	97	10	90-110
Nitrate	20170718133	8	ICV	102	10	90-110
Nitrate	20170718133	11	CCV	101	10	90-110
Nitrate	20170718133	23	CCV	100	10	90-110
Nitrate	20170718133	34	CCV	101	10	90-110
Sulfate	20170619101	8	ICV	108	10	90-110
Sulfate	20170619101	287	CCV	91	10	90-110
Sulfate	20170619101	299	CCV	93	10	90-110
Sulfate	20170619101	307	CCV	92	10	90-110
Sulfate	20170619101	319	CCV	91	10	90-110
Sulfate	20170619101	325	CCV	96	10	90-110
Sulfate	20170718133	8	ICV	106	10	90-110
Sulfate	20170718133	11	CCV	103	10	90-110
Sulfate	20170718133	23	CCV	105	10	90-110
Sulfate	20170718133	34	CCV	101	10	90-110

Calibration Summary:

Instrument: IC1
Analysis Meth: EPA 9056A

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Chloride	20170619101	8	ICV	97	10	90-110
Chloride	20170619101	287	CCV	92	10	90-110
Chloride	20170619101	299	CCV	92	10	90-110
Chloride	20170619101	307	CCV	92	10	90-110
Chloride	20170619101	319	CCV	92	10	90-110
Chloride	20170619101	325	CCV	92	10	90-110
Nitrate	20170619101	8	ICV	102	10	90-110
Nitrate	20170619101	287	CCV	96	10	90-110
Nitrate	20170619101	299	CCV	97	10	90-110
Nitrate	20170619101	307	CCV	97	10	90-110
Nitrate	20170619101	319	CCV	97	10	90-110
Nitrate	20170619101	325	CCV	97	10	90-110
Sulfate	20170619101	8	ICV	108	10	90-110
Sulfate	20170619101	287	CCV	91	10	90-110
Sulfate	20170619101	299	CCV	93	10	90-110
Sulfate	20170619101	307	CCV	92	10	90-110
Sulfate	20170619101	319	CCV	91	10	90-110
Sulfate	20170619101	325	CCV	96	10	90-110

Blank Summary

Instrument: IC1

Qc Type: Method Blank Summary Prep Date: 7/12/17

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170619101	7/12/17 10:58	MBW-2017	289	Chloride	ND	2.0
20170619101	7/12/17 20:09	MBS-1229	309	Chloride	ND	20
20170619101	7/12/17 10:58	MBW-2017	289	Nitrate	ND	1.0
20170619101	7/12/17 20:09	MBS-1229	309	Nitrate	ND	10
20170619101	7/12/17 10:58	MBW-2017	289	Sulfate	ND	2.0
20170619101	7/12/17 20:09	MBS-1229	309	Sulfate	ND	20
20170718133	7/19/17 12:49	MBW-2022	13	Chloride	ND	2.0
20170718133	7/19/17 12:49	MBW-2022	13	Nitrate	ND	1.0
20170718133	7/19/17 12:49	MBW-2022	13	Sulfate	ND	2.0

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170619101	6/19/17 15:52	ICB	9	Chloride	ND	2.0
20170619101	6/19/17 15:52	ICB	9	Nitrate	ND	1.0
20170619101	6/19/17 15:52	ICB	9	Sulfate	ND	2.0
20170718133	7/18/17 18:04	ICB	9	Chloride	ND	2.0
20170718133	7/18/17 18:04	ICB	9	Nitrate	ND	1.0
20170718133	7/18/17 18:04	ICB	9	Sulfate	ND	2.0

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170619101	7/12/17 10:31	CCB	288	Chloride	ND	2.0
20170619101	7/12/17 16:04	CCB	300	Chloride	ND	2.0
20170619101	7/12/17 19:41	CCB	308	Chloride	ND	2.0
20170619101	7/13/17 01:08	CCB	320	Chloride	ND	2.0
20170619101	7/13/17 03:51	CCB	326	Chloride	ND	2.0
20170619101	7/12/17 10:31	CCB	288	Nitrate	ND	1.0
20170619101	7/12/17 16:04	CCB	300	Nitrate	ND	1.0
20170619101	7/12/17 19:41	CCB	308	Nitrate	ND	1.0
20170619101	7/13/17 01:08	CCB	320	Nitrate	ND	1.0
20170619101	7/13/17 03:51	CCB	326	Nitrate	ND	1.0
20170619101	7/12/17 10:31	CCB	288	Sulfate	ND	2.0
20170619101	7/12/17 16:04	CCB	300	Sulfate	ND	2.0
20170619101	7/12/17 19:41	CCB	308	Sulfate	ND	2.0
20170619101	7/13/17 01:08	CCB	320	Sulfate	ND	2.0
20170619101	7/13/17 03:51	CCB	326	Sulfate	ND	2.0
20170718133	7/19/17 12:22	CCB	12	Chloride	ND	2.0
20170718133	7/19/17 18:49	CCB	24	Chloride	ND	2.0
20170718133	7/19/17 23:48	CCB	35	Chloride	ND	2.0
20170718133	7/19/17 12:22	CCB	12	Nitrate	ND	1.0
20170718133	7/19/17 18:49	CCB	24	Nitrate	ND	1.0
20170718133	7/19/17 23:48	CCB	35	Nitrate	ND	1.0
20170718133	7/19/17 12:22	CCB	12	Sulfate	ND	2.0

Blank Summary

Instrument: IC1

20170718133	7/19/17 18:49	CCB	24	Sulfate	ND	2.0
20170718133	7/19/17 23:48	CCB	35	Sulfate	ND	2.0

MS/MSD/DUP Recovery

Prep Batch: W-2017 Sample ID: AC98905-017
Method: 300.0 rev2.1 Matrix: Aqueous

Qc Type: MS		Limits			MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov		Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120		1	215.318	210.402	98		20170619101	292	07/12/17 12:26	20170619101	291	07/12/17 11:59
Nitrate	5	80-120		1	4.5864	0	92		20170619101	292	07/12/17 12:26	20170619101	291	07/12/17 11:59
Sulfate	5	80-120		1	14.0904	8.5399	111		20170619101	292	07/12/17 12:26	20170619101	291	07/12/17 11:59

Qc Type: MSD		Limits			MSD	Sample				MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120	20	1	212.549	210.402	43	1.3	MW	20170619101	293	07/12/17 12:54	20170619101	291	07/12/17 11:59
Nitrate	5	80-120	20	1	4.5606	0	91	0.6		20170619101	293	07/12/17 12:54	20170619101	291	07/12/17 11:59
Sulfate	5	80-120	20	1	14.1619	8.5399	112	0.5		20170619101	293	07/12/17 12:54	20170619101	291	07/12/17 11:59

Prep Batch: W-2019 Sample ID: AC98967-001
Method: 300.0 rev2.1 Matrix: Aqueous

Qc Type: MS		Limits			MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov		Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120		1	247.908	243.284	92		20170619101	359	07/14/17 13:44	20170619101	358	07/14/17 13:17
Nitrate	5	80-120		1	5.1904	0	104		20170619101	359	07/14/17 13:44	20170619101	358	07/14/17 13:17
Sulfate	5	80-120		1	51.6371	45.8744	115		20170619101	359	07/14/17 13:44	20170619101	358	07/14/17 13:17

Qc Type: MSD		Limits			MSD	Sample				MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Chloride	5	80-120	20	1	247.205	243.284	78	0.3	MW	20170619101	360	07/14/17 14:11	20170619101	358	07/14/17 13:17
Nitrate	5	80-120	20	1	5.2202	0	104	0.6		20170619101	360	07/14/17 14:11	20170619101	358	07/14/17 13:17
Sulfate	5	80-120	20	1	52.0331	45.8744	123	0.8	MW	20170619101	360	07/14/17 14:11	20170619101	358	07/14/17 13:17

LCS Recoveries

	BatchRunID/RunID:====>	201706191011-290	201706191011-357			
	QcBatchID:====>	LCSW-2017	LCSW-2019			
	Date/Time:====>	07/12/17 11:25	07/14/17 12:15			
	Analytical Method:====>	300.0 rev2.1	300.0 rev2.1			
	Matrix:====>	Aqueous	Aqueous	Soil	Soil	Soil
Analyte	300.0 rev2. Amt Limits Amt Limits	% Rec Flags	% Rec Flags	% Rec Flags	% Rec Flags	% Rec Flags
Chloride	5 90-110	101	102			
Nitrate	5 90-110	92	92			
Sulfate	5 90-110	91	93			

7071123 0246

Calibration Curve

Instrument: IC1
Analysis Date: 06/19/17
Analytical Methods: 300.0 rev2.1;EPA 9056;EPA 9056A

		Area Found						Concentration Amount						
Batch ID:	Analyte:	Area1	Area2	Area3	Area4	Area5	Area6	Conc1	Conc2	Conc3	Conc4	Conc5	Conc6	rSq
201706191011	Chloride	0	0.24	1.114	2.284	4.721	13.556	0	1	5	10	20	50	99.719
201706191011	Nitrate	0	0.551	2.829	5.869	11.975		0	1	5	10	20	50	99.984
201706191011	Sulfate	0	0.194	0.991	1.825	3.387	8.813	0	1	5	10	20	50	99.934

Calibration Summary:

Instrument: IC1
Analysis Meth: 300.0 rev2.1

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Chloride	20170619101	8	ICV	97	10	90-110
Chloride	20170619101	287	CCV	92	10	90-110
Chloride	20170619101	299	CCV	92	10	90-110
Chloride	20170619101	307	CCV	92	10	90-110
Chloride	20170619101	354	CCV	92	10	90-110
Chloride	20170619101	366	CCV	93	10	90-110
Chloride	20170619101	378	CCV	93	10	90-110
Chloride	20170619101	386	CCV	92	10	90-110
Nitrate	20170619101	8	ICV	102	10	90-110
Nitrate	20170619101	287	CCV	96	10	90-110
Nitrate	20170619101	299	CCV	97	10	90-110
Nitrate	20170619101	307	CCV	97	10	90-110
Nitrate	20170619101	354	CCV	97	10	90-110
Nitrate	20170619101	366	CCV	98	10	90-110
Nitrate	20170619101	378	CCV	97	10	90-110
Nitrate	20170619101	386	CCV	97	10	90-110
Sulfate	20170619101	8	ICV	108	10	90-110
Sulfate	20170619101	287	CCV	91	10	90-110
Sulfate	20170619101	299	CCV	93	10	90-110
Sulfate	20170619101	307	CCV	92	10	90-110
Sulfate	20170619101	354	CCV	92	10	90-110
Sulfate	20170619101	366	CCV	94	10	90-110
Sulfate	20170619101	378	CCV	92	10	90-110
Sulfate	20170619101	386	CCV	92	10	90-110

Blank Summary

Instrument: IC1

Qc Type: Method Blank Summary Prep Date: 7/12/17

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170619101	7/12/17 10:58	MBW-2017	289	Chloride	ND	2.0
20170619101	7/14/17 11:47	MBW-2019	356	Chloride	ND	2.0
20170619101	7/12/17 10:58	MBW-2017	289	Nitrate	ND	1.0
20170619101	7/14/17 11:47	MBW-2019	356	Nitrate	ND	1.0
20170619101	7/12/17 10:58	MBW-2017	289	Sulfate	ND	2.0
20170619101	7/14/17 11:47	MBW-2019	356	Sulfate	ND	2.0

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170619101	6/19/17 15:52	ICB	9	Chloride	ND	2.0
20170619101	6/19/17 15:52	ICB	9	Nitrate	ND	1.0
20170619101	6/19/17 15:52	ICB	9	Sulfate	ND	2.0

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20170619101	7/12/17 10:31	CCB	288	Chloride	ND	2.0
20170619101	7/12/17 16:04	CCB	300	Chloride	ND	2.0
20170619101	7/12/17 19:41	CCB	308	Chloride	ND	2.0
20170619101	7/14/17 11:20	CCB	355	Chloride	ND	2.0
20170619101	7/14/17 17:22	CCB	367	Chloride	ND	2.0
20170619101	7/14/17 22:48	CCB	379	Chloride	ND	2.0
20170619101	7/15/17 02:26	CCB	387	Chloride	ND	2.0
20170619101	7/12/17 10:31	CCB	288	Nitrate	ND	1.0
20170619101	7/12/17 16:04	CCB	300	Nitrate	ND	1.0
20170619101	7/12/17 19:41	CCB	308	Nitrate	ND	1.0
20170619101	7/14/17 11:20	CCB	355	Nitrate	ND	1.0
20170619101	7/14/17 17:22	CCB	367	Nitrate	ND	1.0
20170619101	7/14/17 22:48	CCB	379	Nitrate	ND	1.0
20170619101	7/15/17 02:26	CCB	387	Nitrate	ND	1.0
20170619101	7/12/17 10:31	CCB	288	Sulfate	ND	2.0
20170619101	7/12/17 16:04	CCB	300	Sulfate	ND	2.0
20170619101	7/12/17 19:41	CCB	308	Sulfate	ND	2.0
20170619101	7/14/17 11:20	CCB	355	Sulfate	ND	2.0
20170619101	7/14/17 17:22	CCB	367	Sulfate	ND	2.0
20170619101	7/14/17 22:48	CCB	379	Sulfate	ND	2.0
20170619101	7/15/17 02:26	CCB	387	Sulfate	ND	2.0

Hampton-Clarke
Analytical & Field Services

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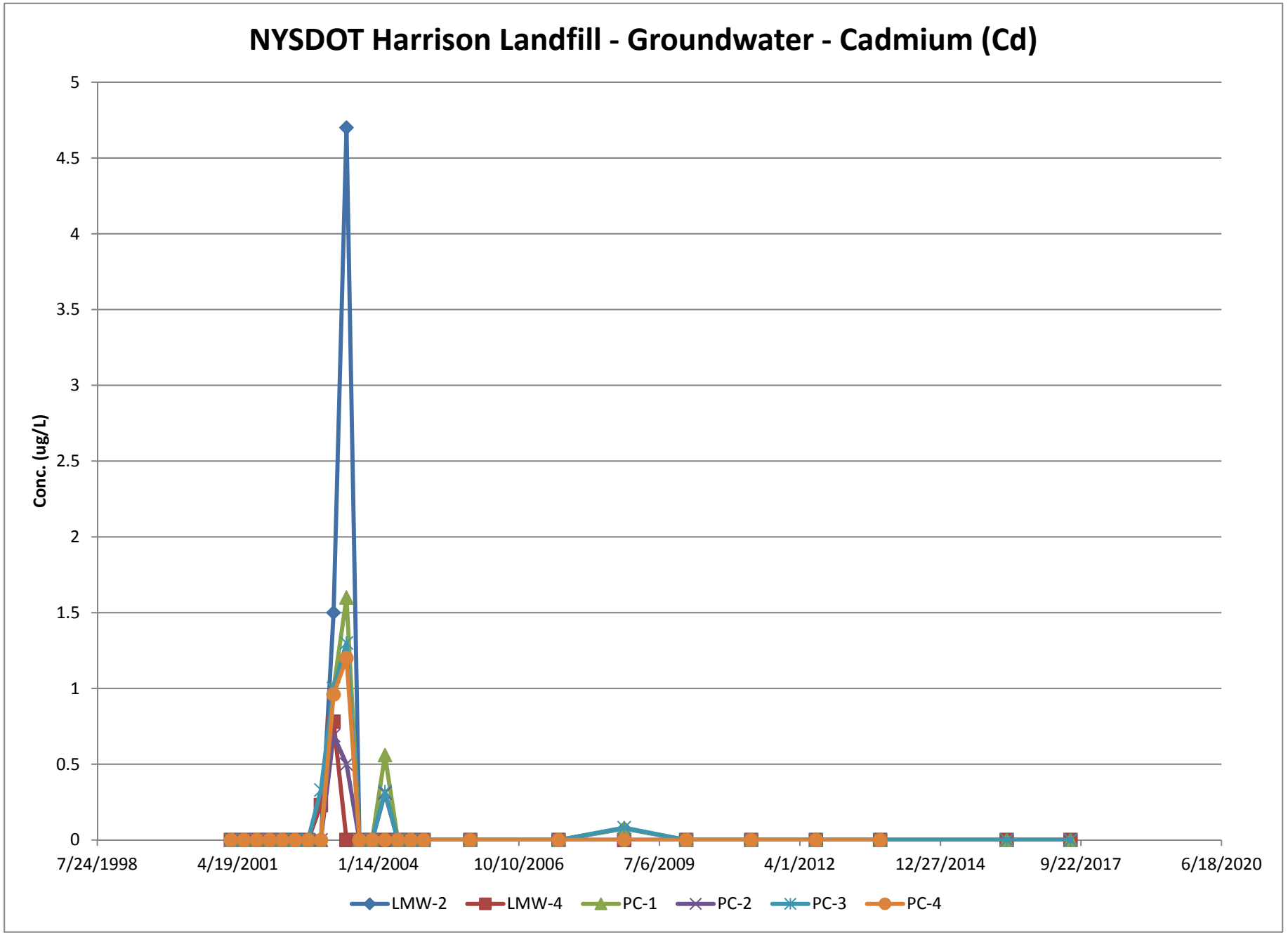
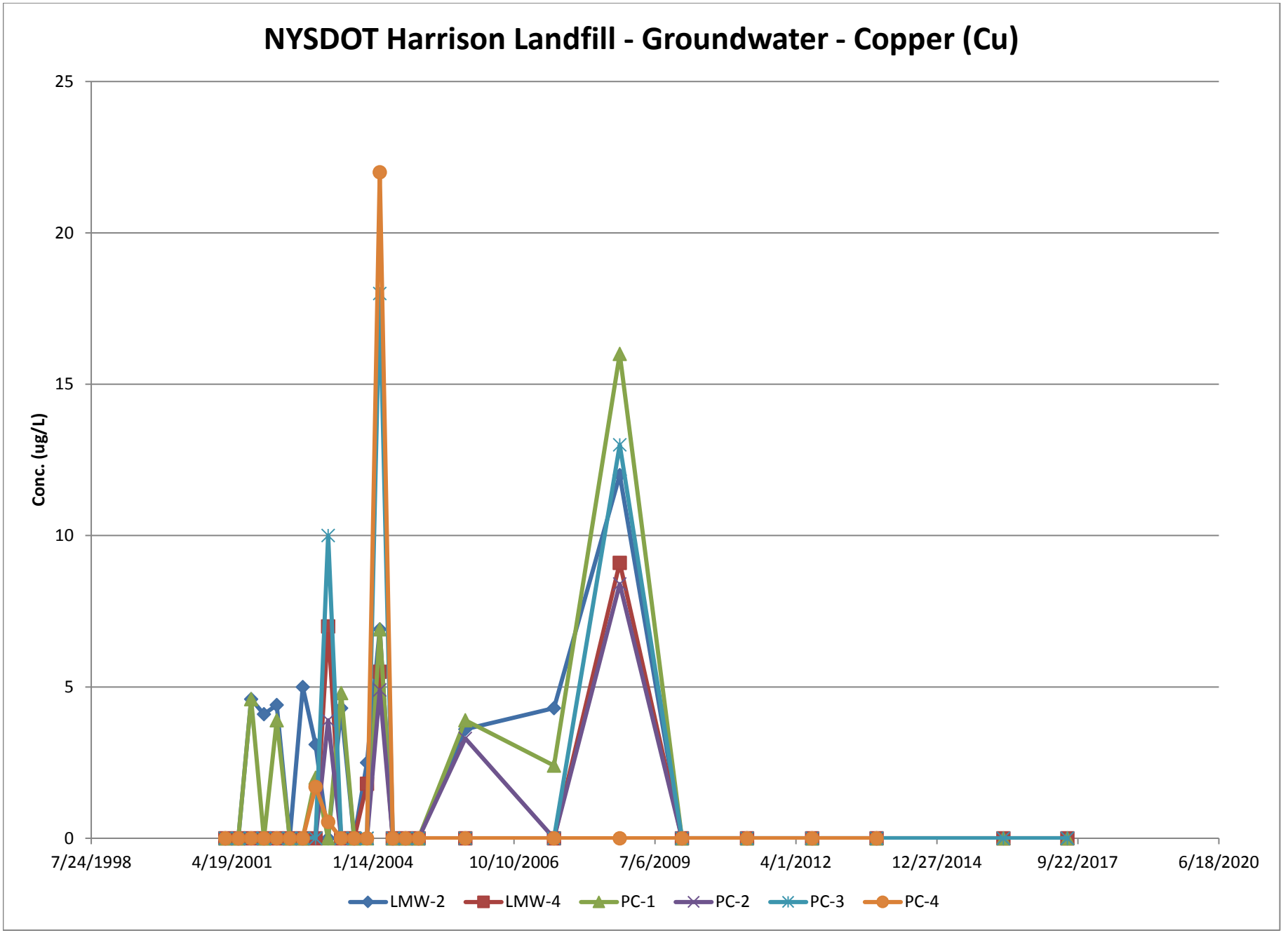
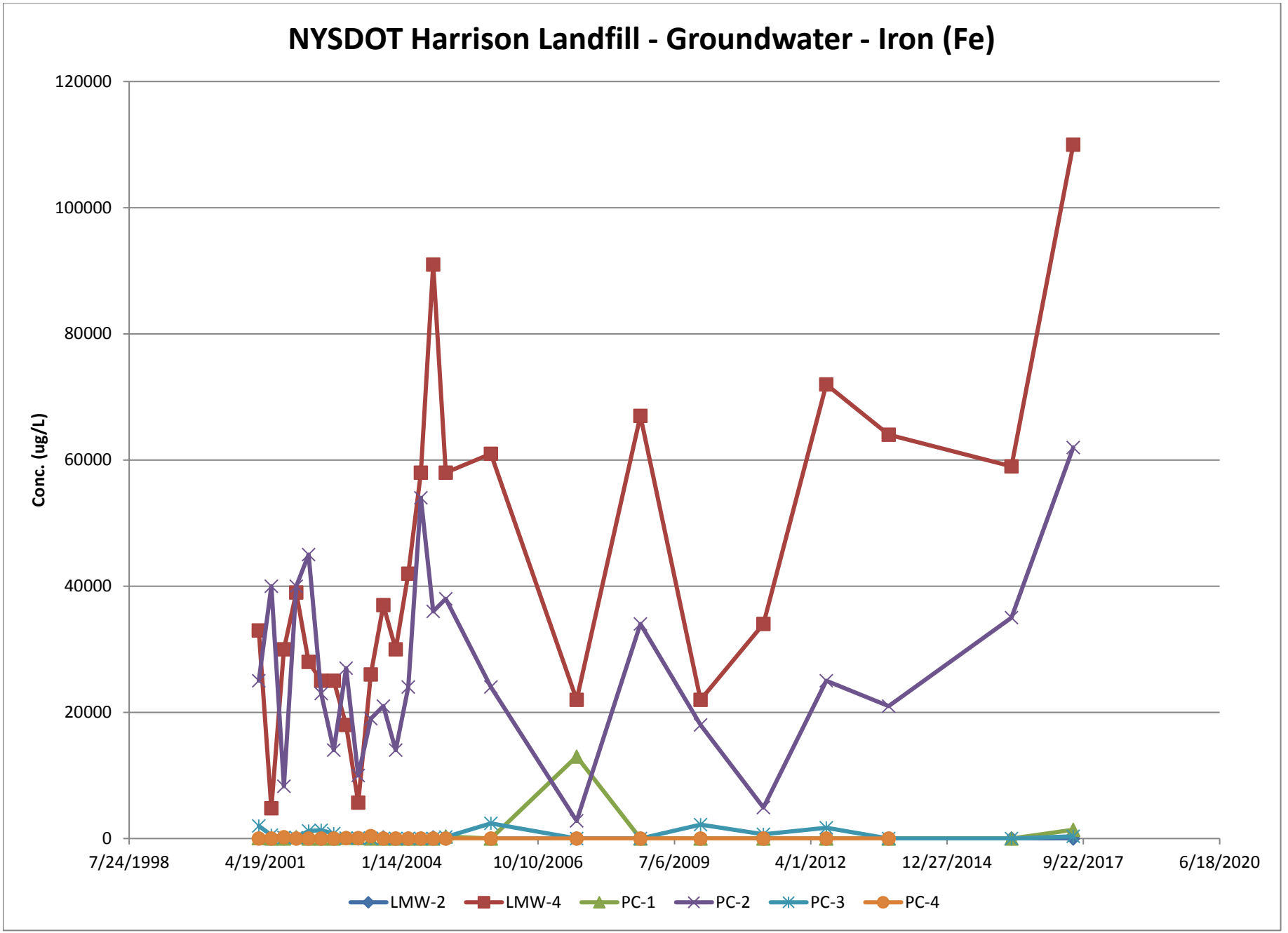
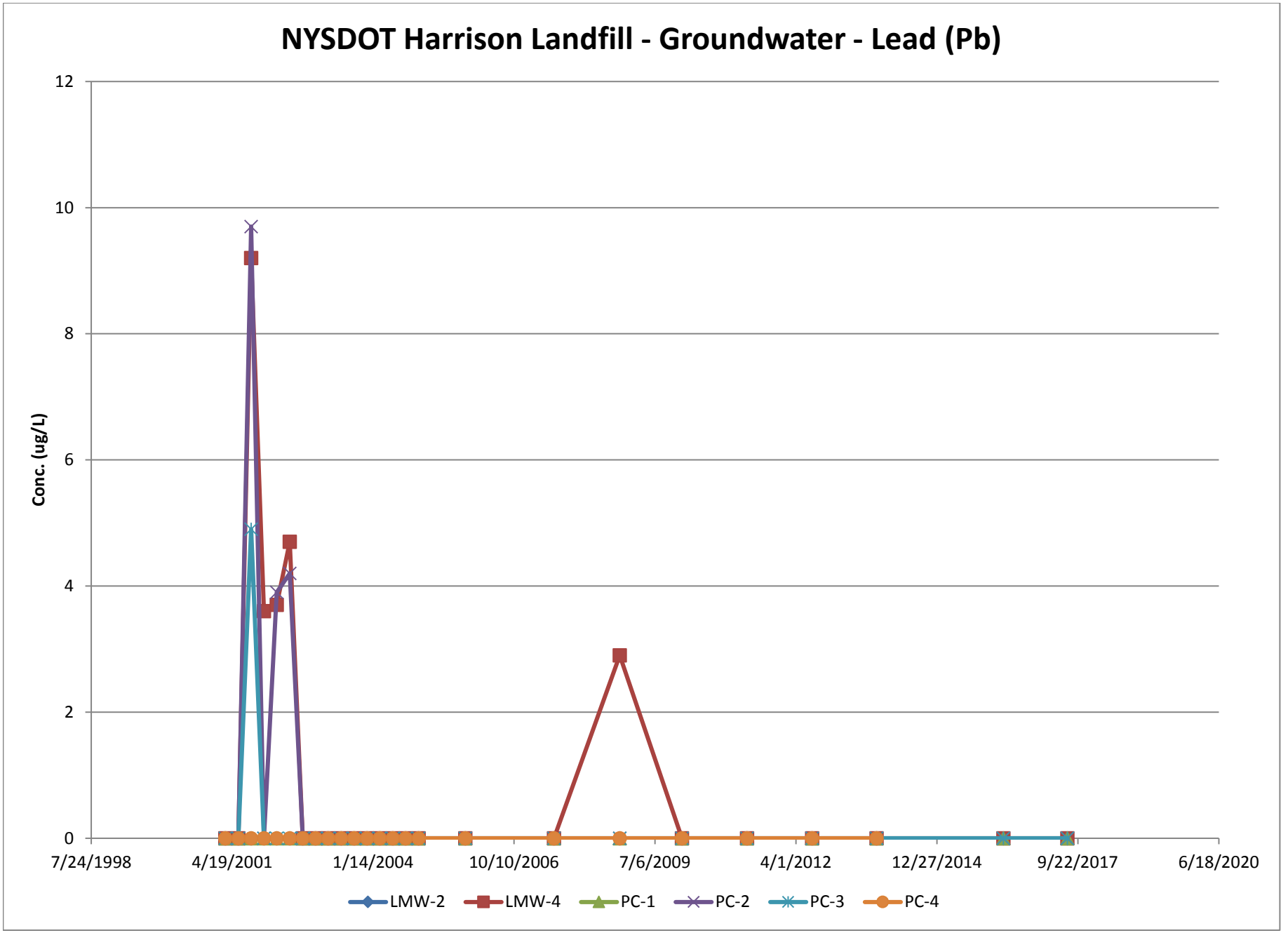
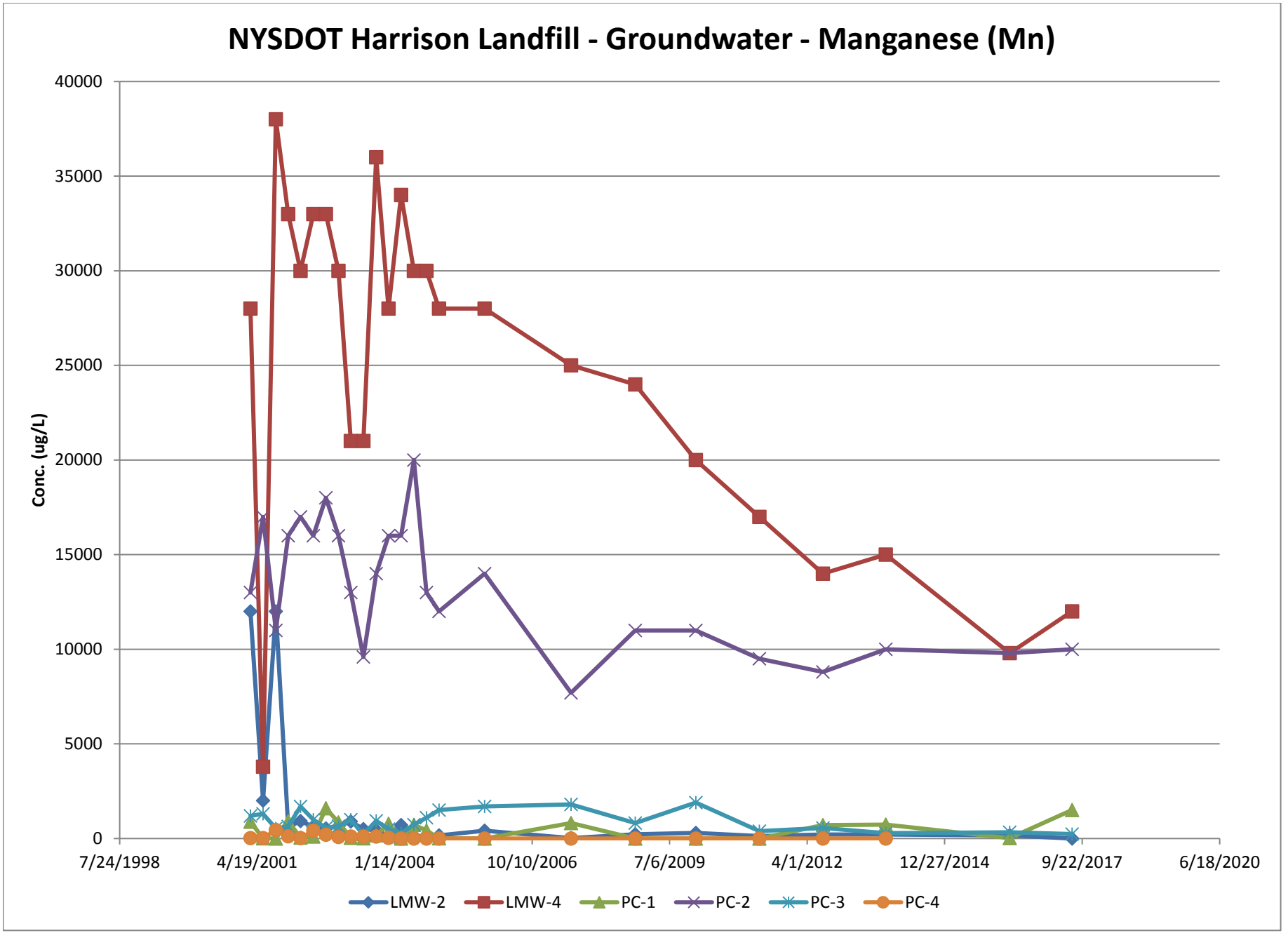
APPENDIX D
SELECTED ANALYTE DATA TRENDS

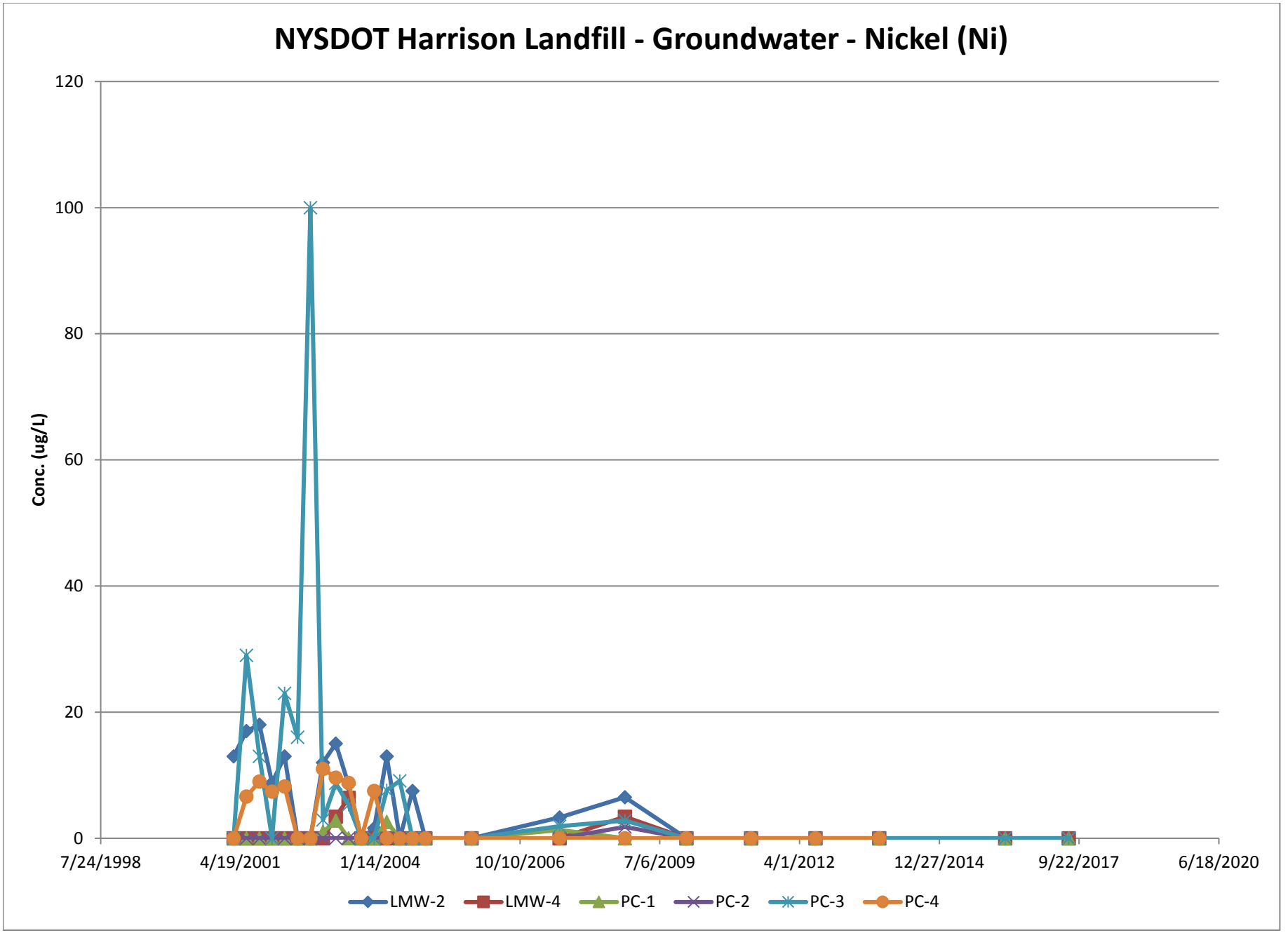

NYSDOT Harrison Landfill - Groundwater - Cadmium (Cd)
Conc. (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

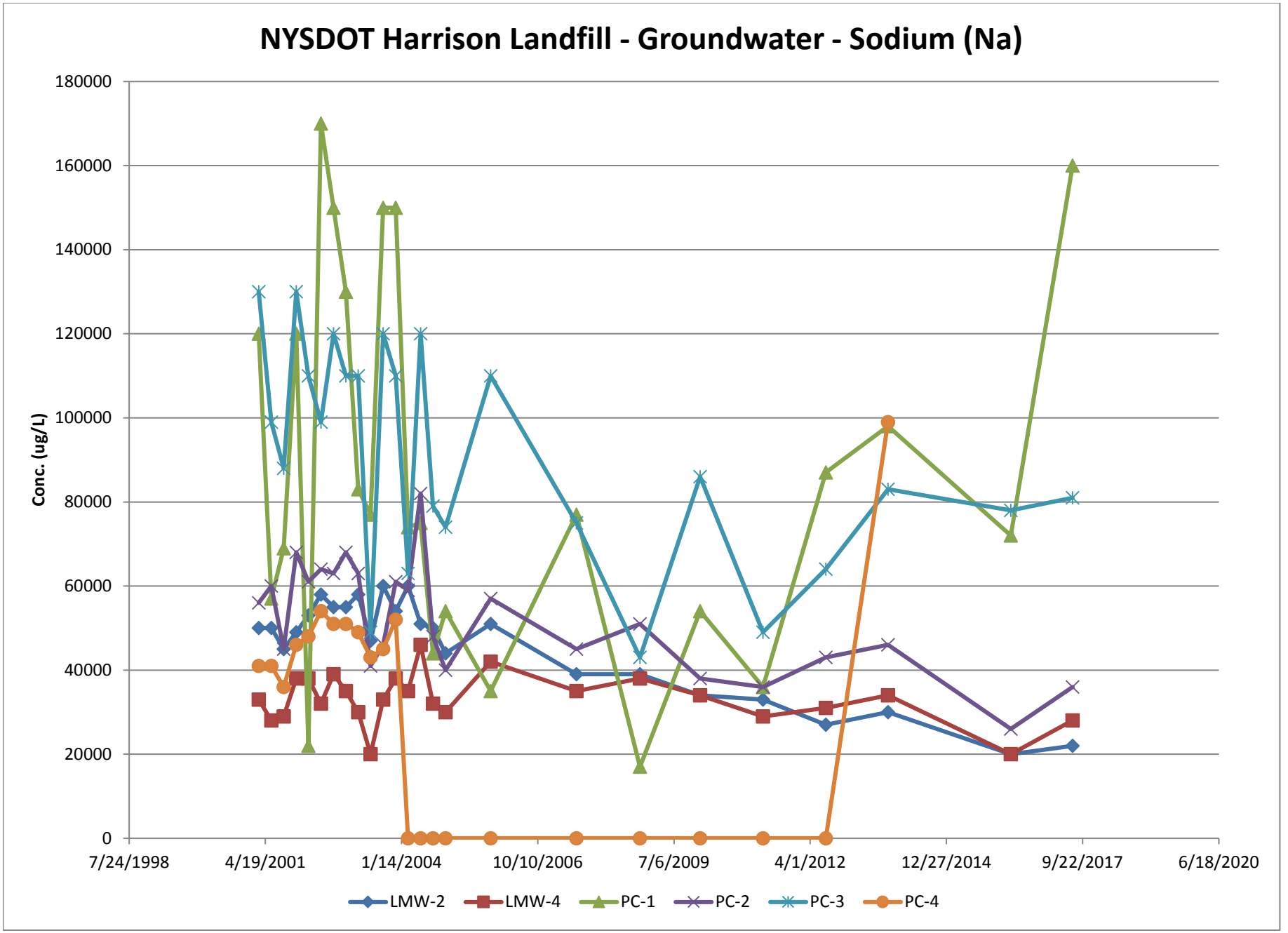

NYSDOT Harrison Landfill - Groundwater - Copper (Cu)
Conc. (ug/L)
25
20
15
10
5
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

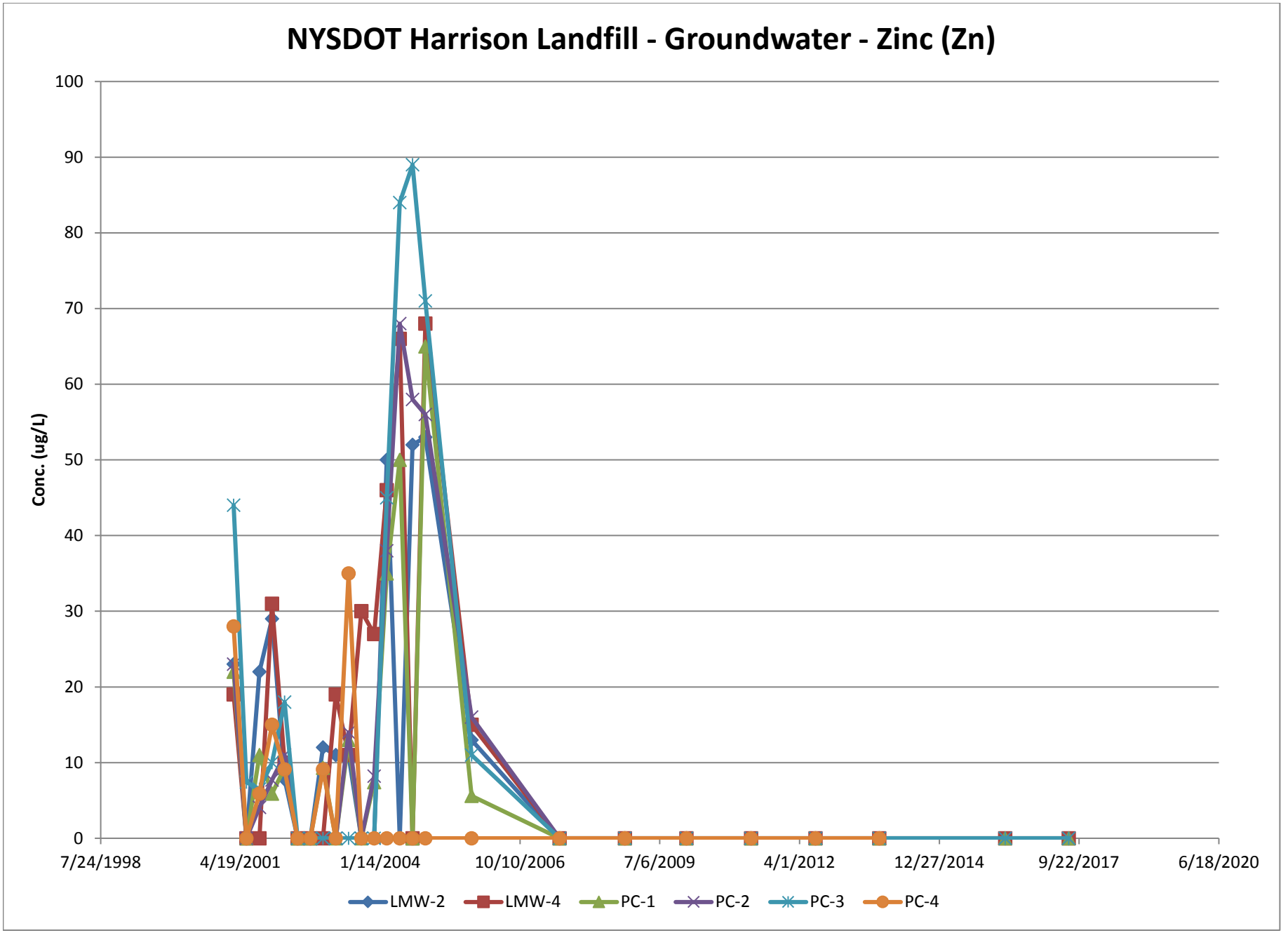

NYSDOT Harrison Landfill - Groundwater - Iron (Fe)
Conc. (ug/L)
120000
100000
80000
60000
40000
20000
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

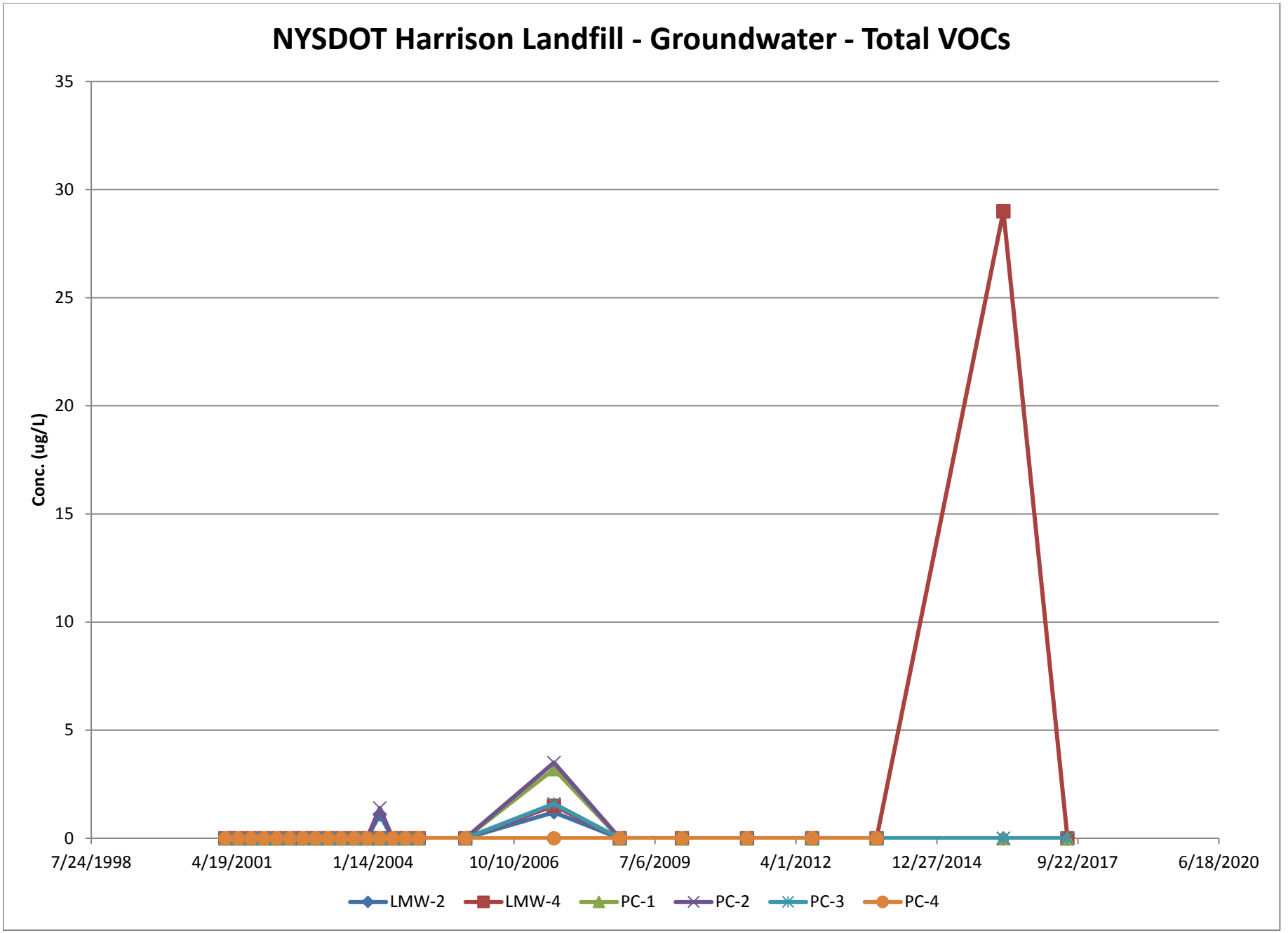

NYSDOT Harrison Landfill - Groundwater - Lead (Pb)
Conc. (ug/L)
12
10
8
6
4
2
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

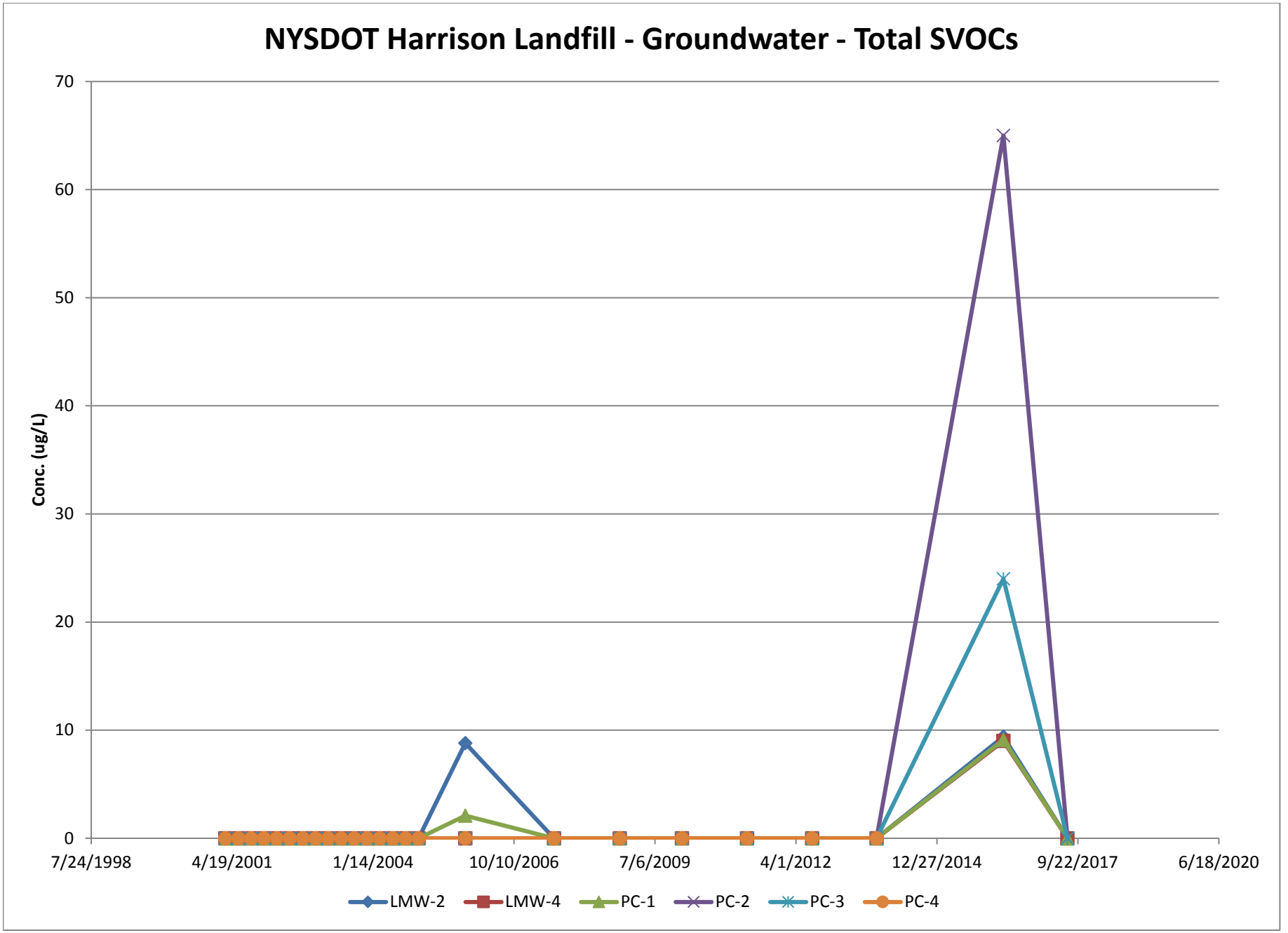

NYSDOT Harrison Landfill - Groundwater - Manganese (Mn)
Conc. (ug/L)
40000
35000
30000
25000
20000
15000
10000
5000
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

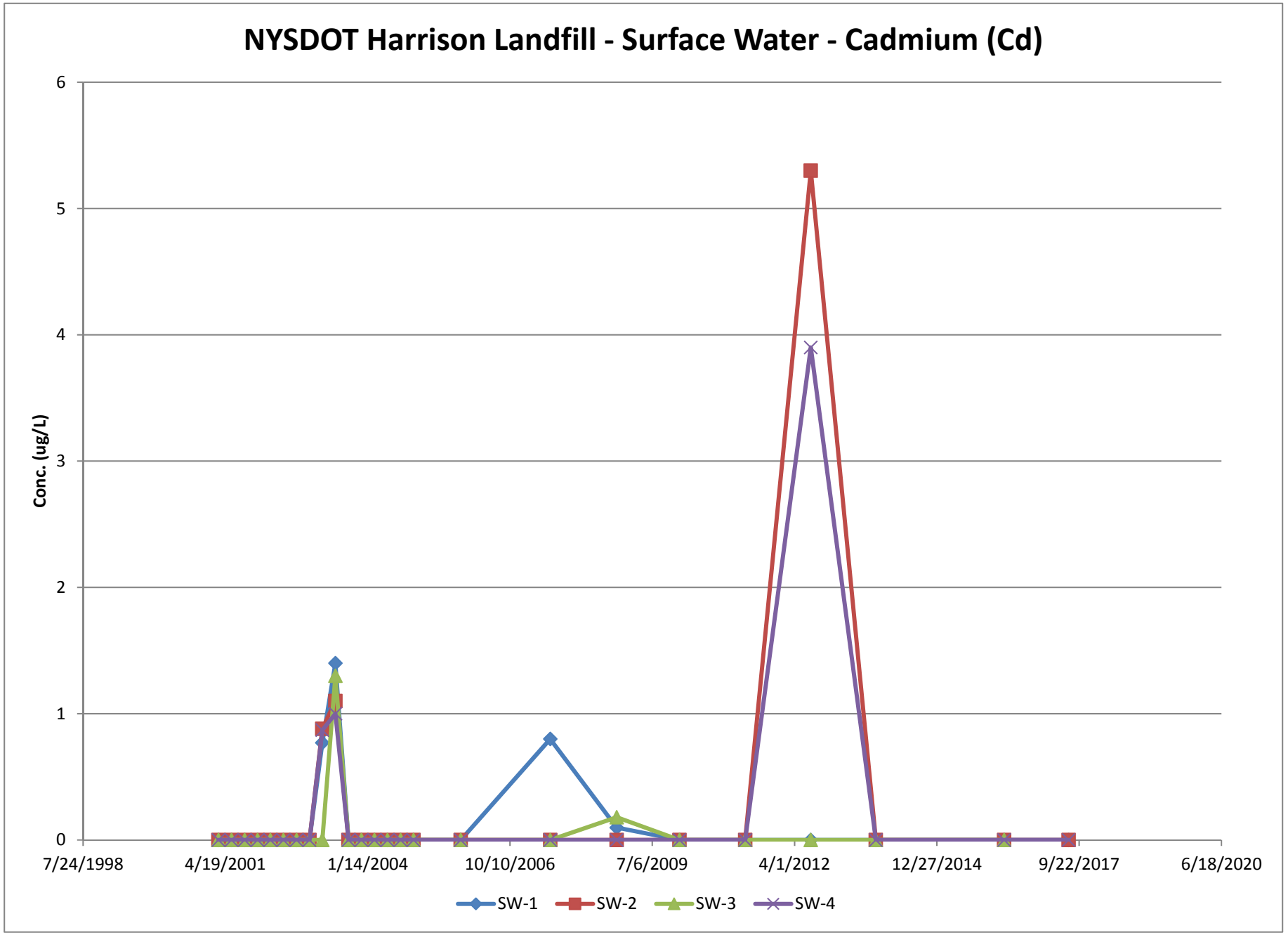

NYSDOT Harrison Landfill - Groundwater - Nickel (Ni)
Conc. (ug/L)
120
100
80
60
40
20
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

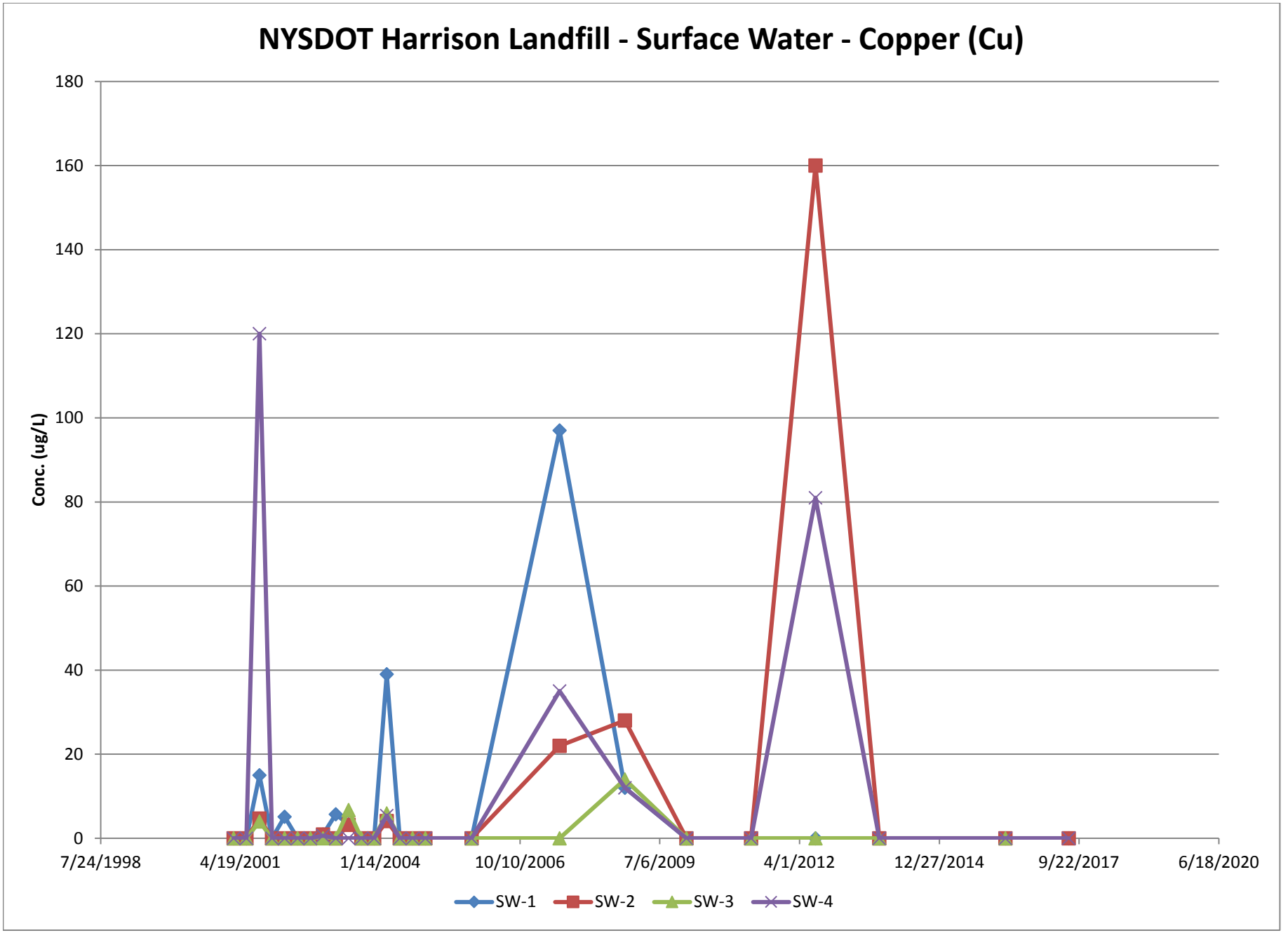

NYSDOT Harrison Landfill - Groundwater - Sodium (Na)
Conc. (ug/L)
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

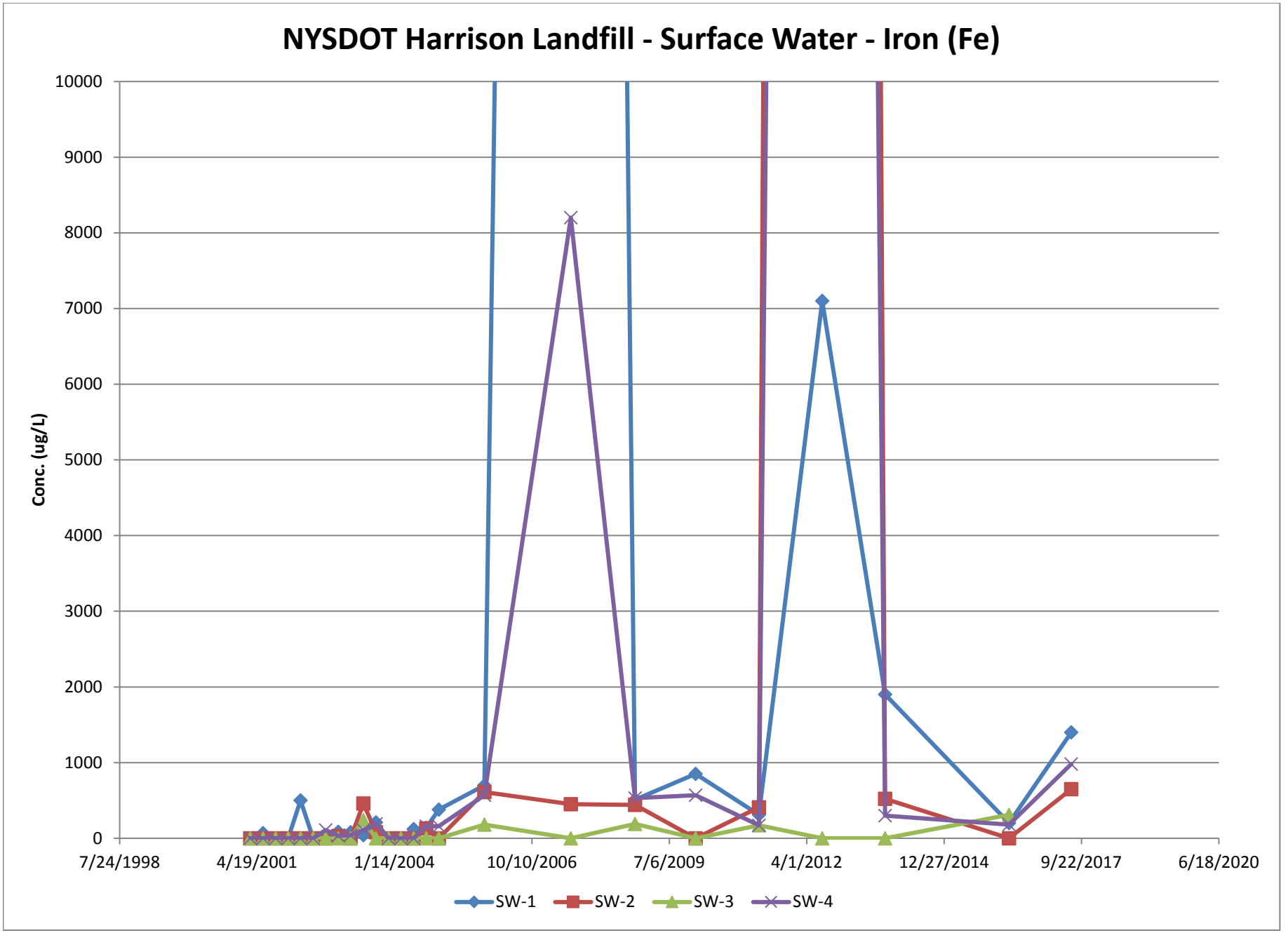

NYSDOT Harrison Landfill - Groundwater - Zinc (Zn)
Conc. (ug/L)
100
90
80
70
60
50
40
30
20
10
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

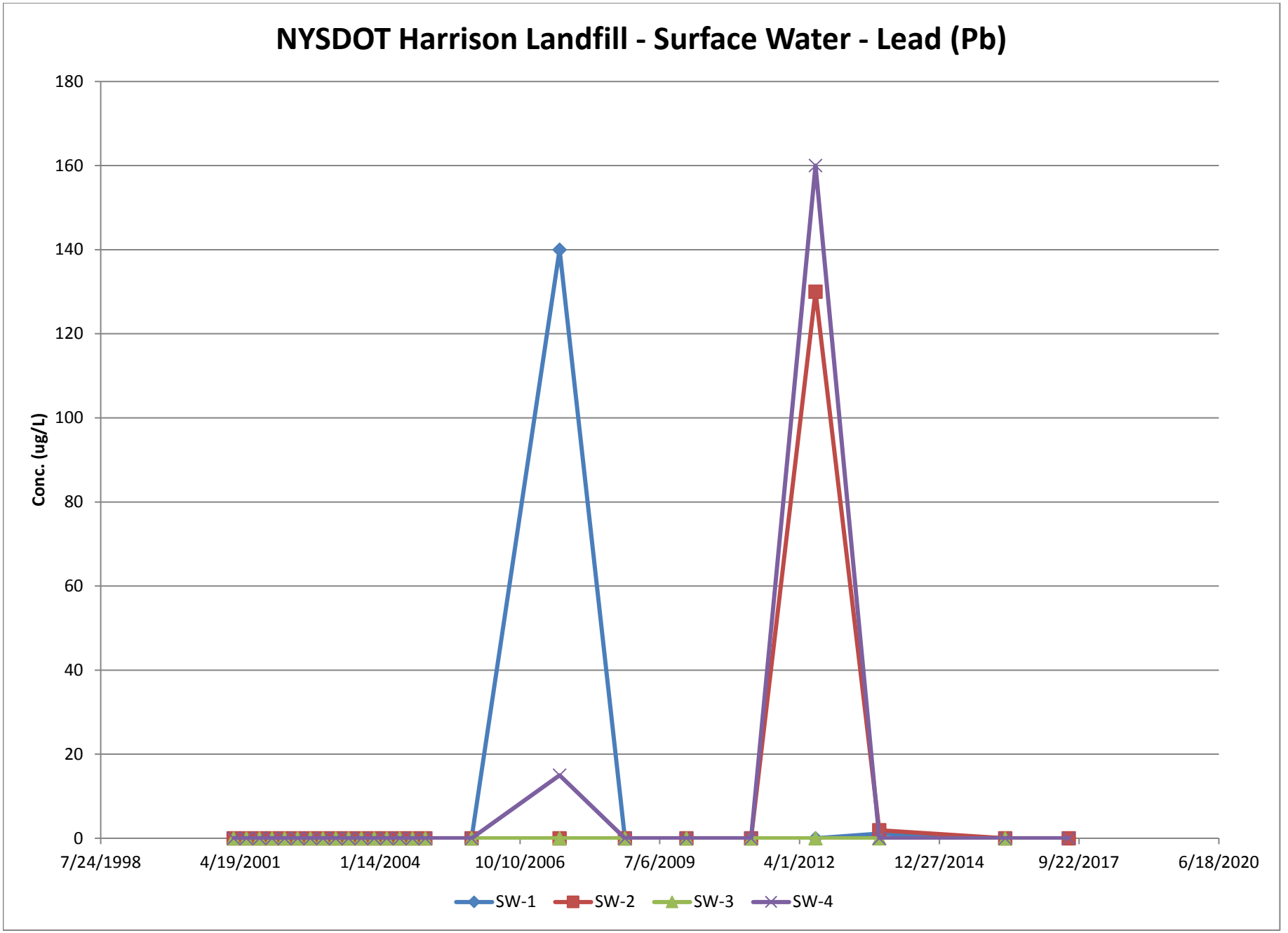

NYSDOT Harrison Landfill - Groundwater - Total VOCs
Conc. (ug/L)
35
30
25
20
15
10
5
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

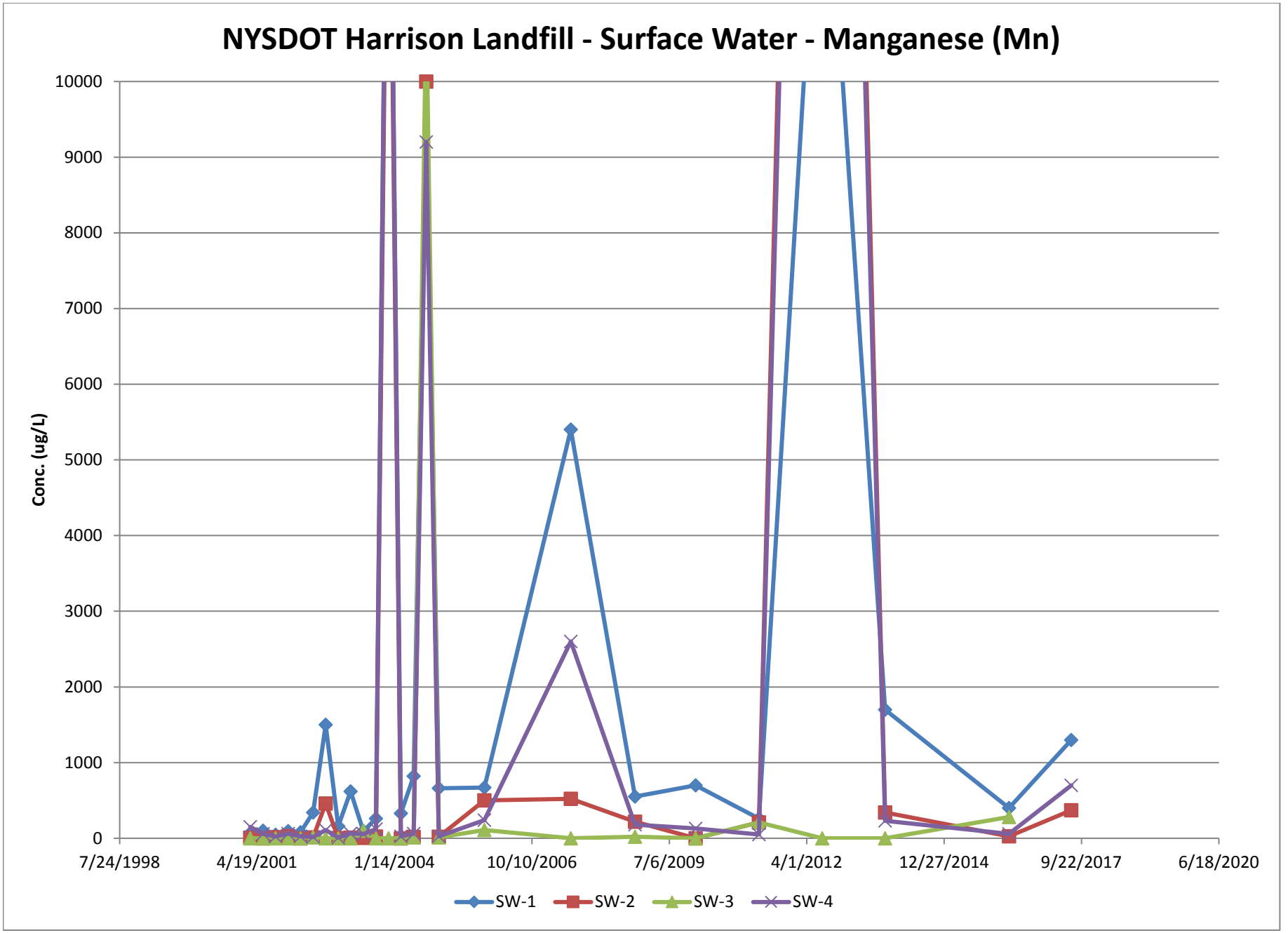

NYSDOT Harrison Landfill - Groundwater - Total SVOCs
Conc. (ug/L)
70
60
50
40
30
20
10
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
LMW-2
LMW-4
PC-1
PC-2
PC-3
PC-4

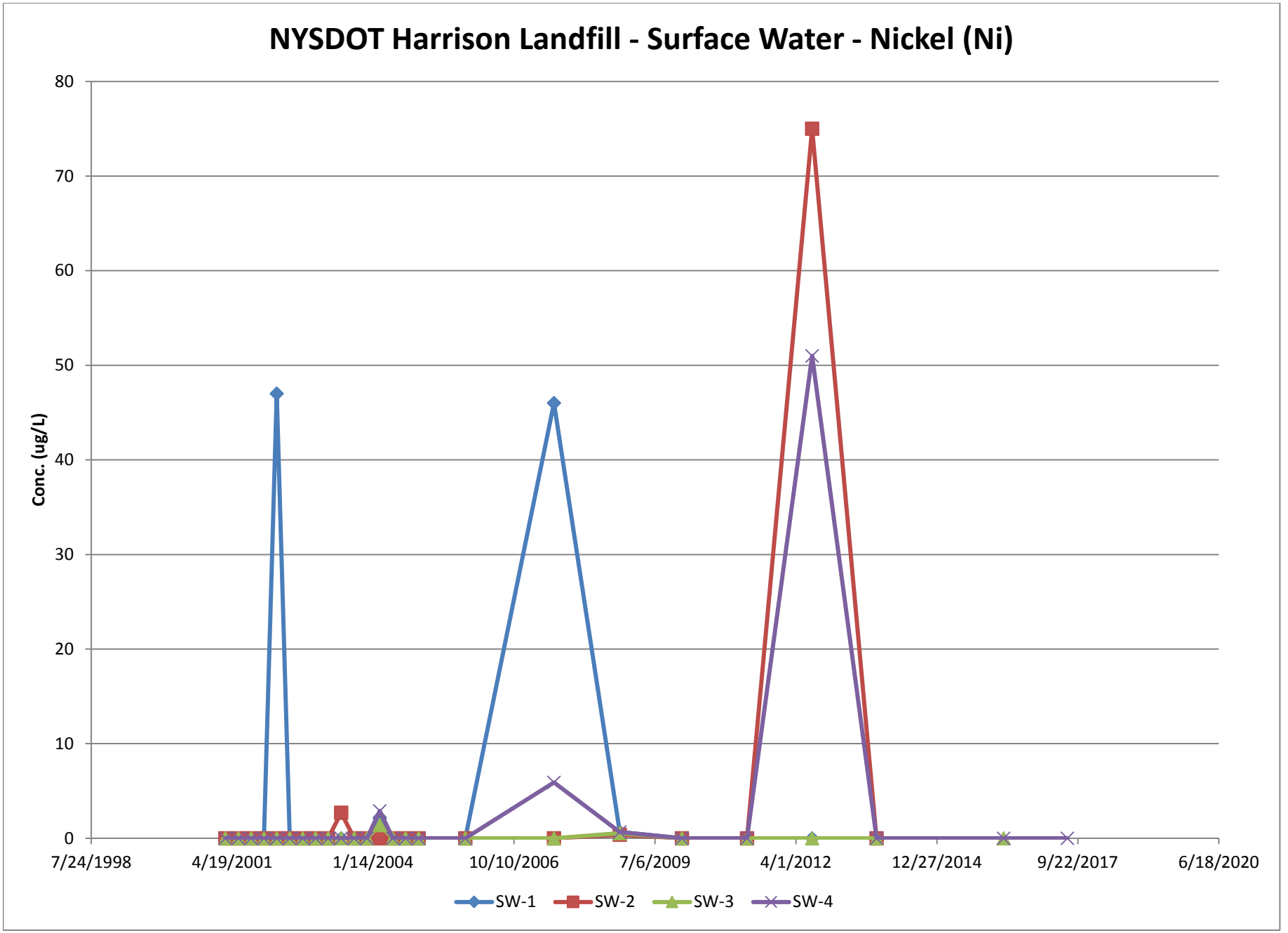

NYSDOT Harrison Landfill - Surface Water - Cadmium (Cd)
Conc. (ug/L)
6
5
4
3
2
1
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

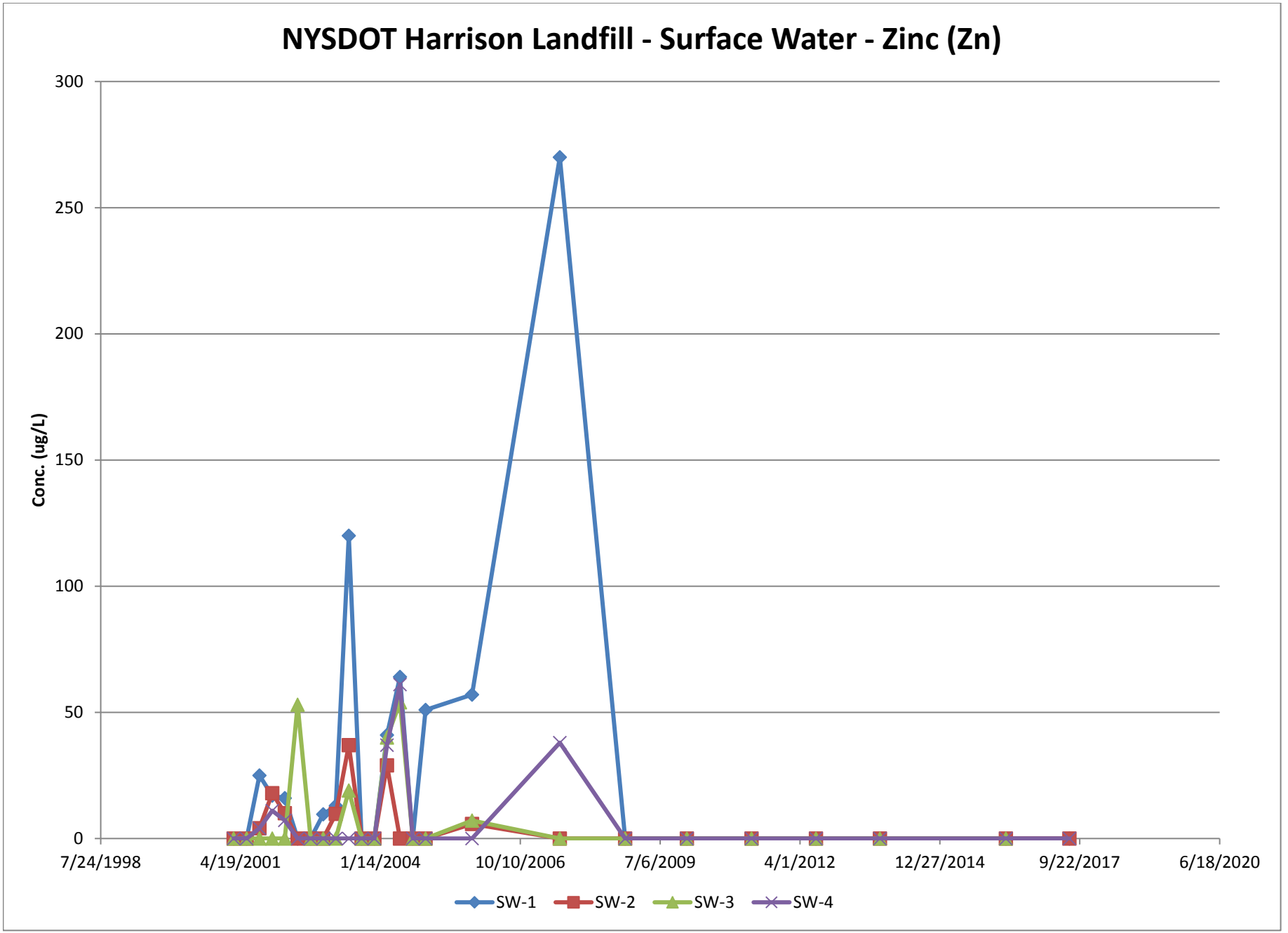

NYSDOT Harrison Landfill - Surface Water - Copper (Cu)
Conc. (ug/L)
180
160
140
120
100
80
60
40
20
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

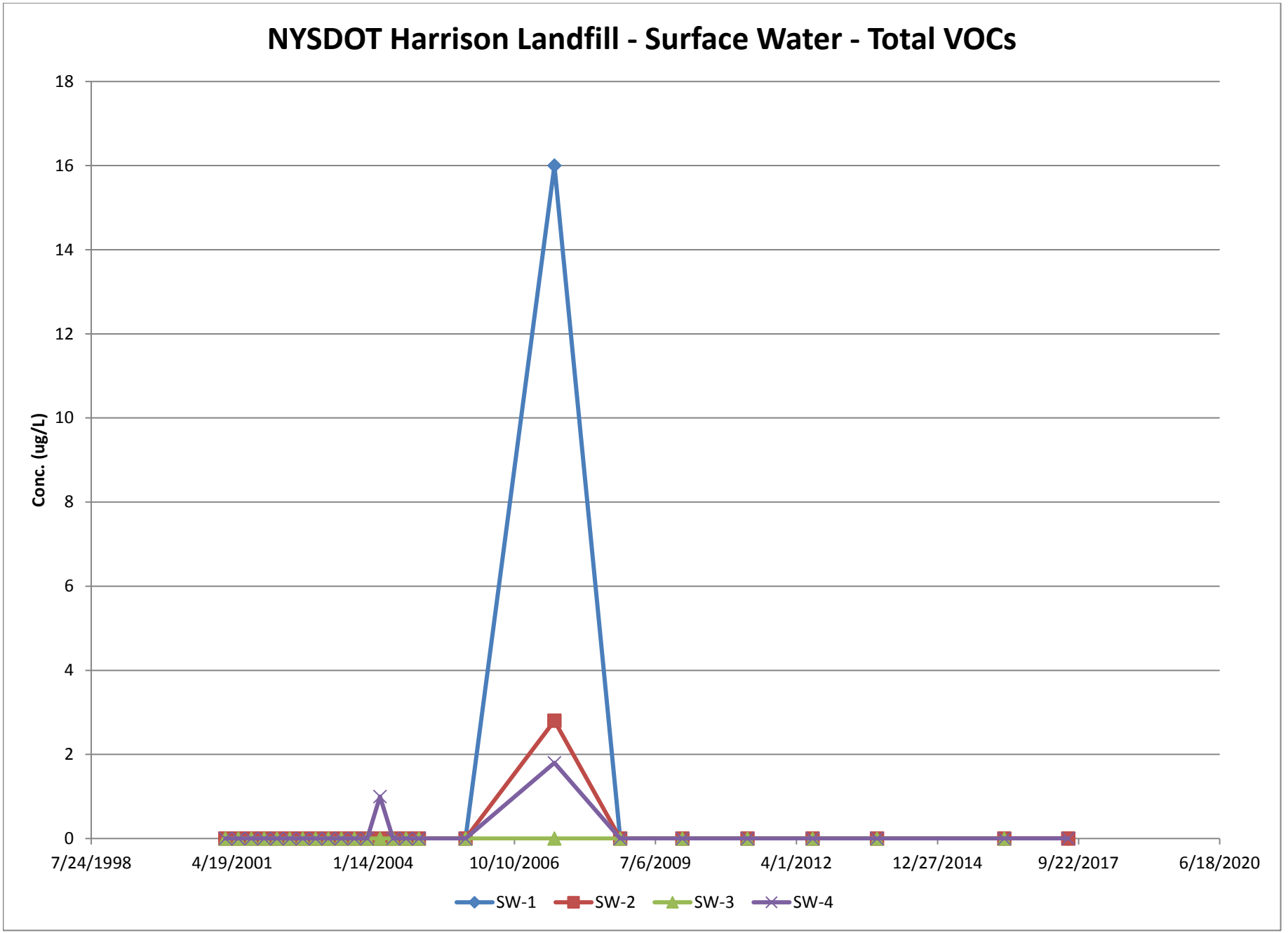

NYSDOT Harrison Landfill - Surface Water - Iron (Fe)
Conc. (ug/L)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

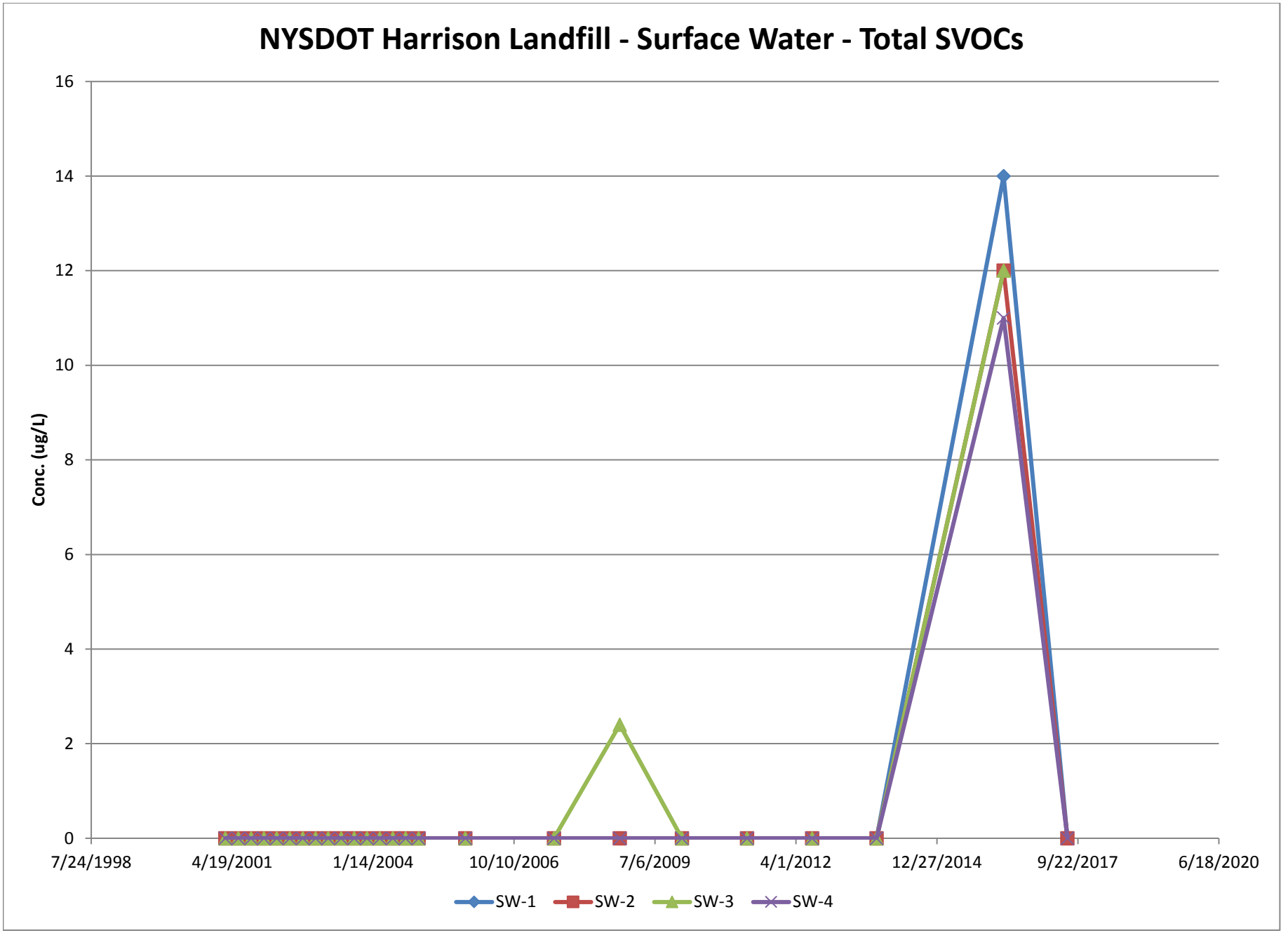

NYSDOT Harrison Landfill - Surface Water - Lead (Pb)
Conc. (ug/L)
180
160
140
120
100
80
60
40
20
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

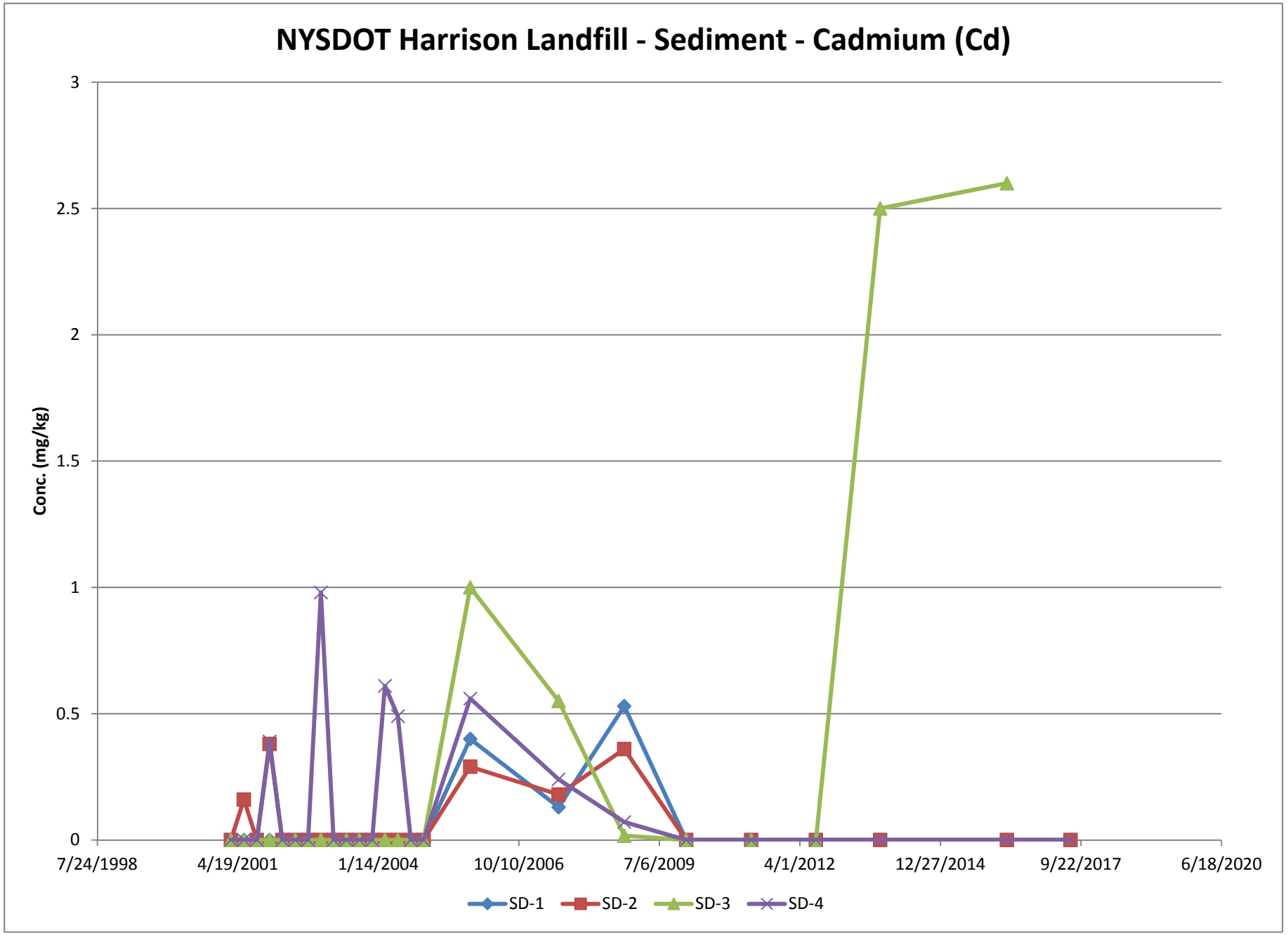

NYSDOT Harrison Landfill - Surface Water - Manganese (Mn)
Conc. (ug/L)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

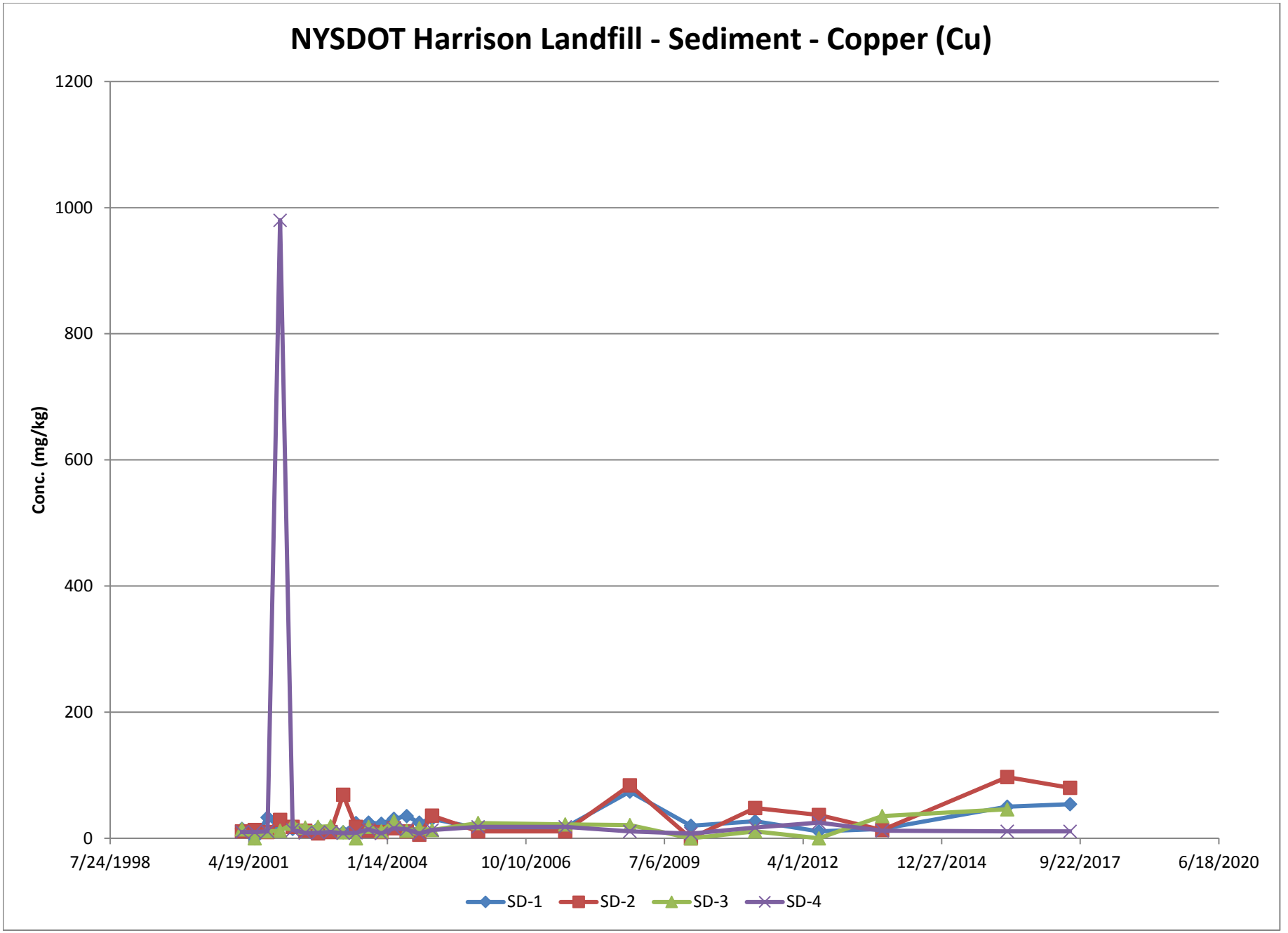

NYSDOT Harrison Landfill - Surface Water - Nickel (Ni)
Conc. (ug/L)
80
70
60
50
40
30
20
10
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

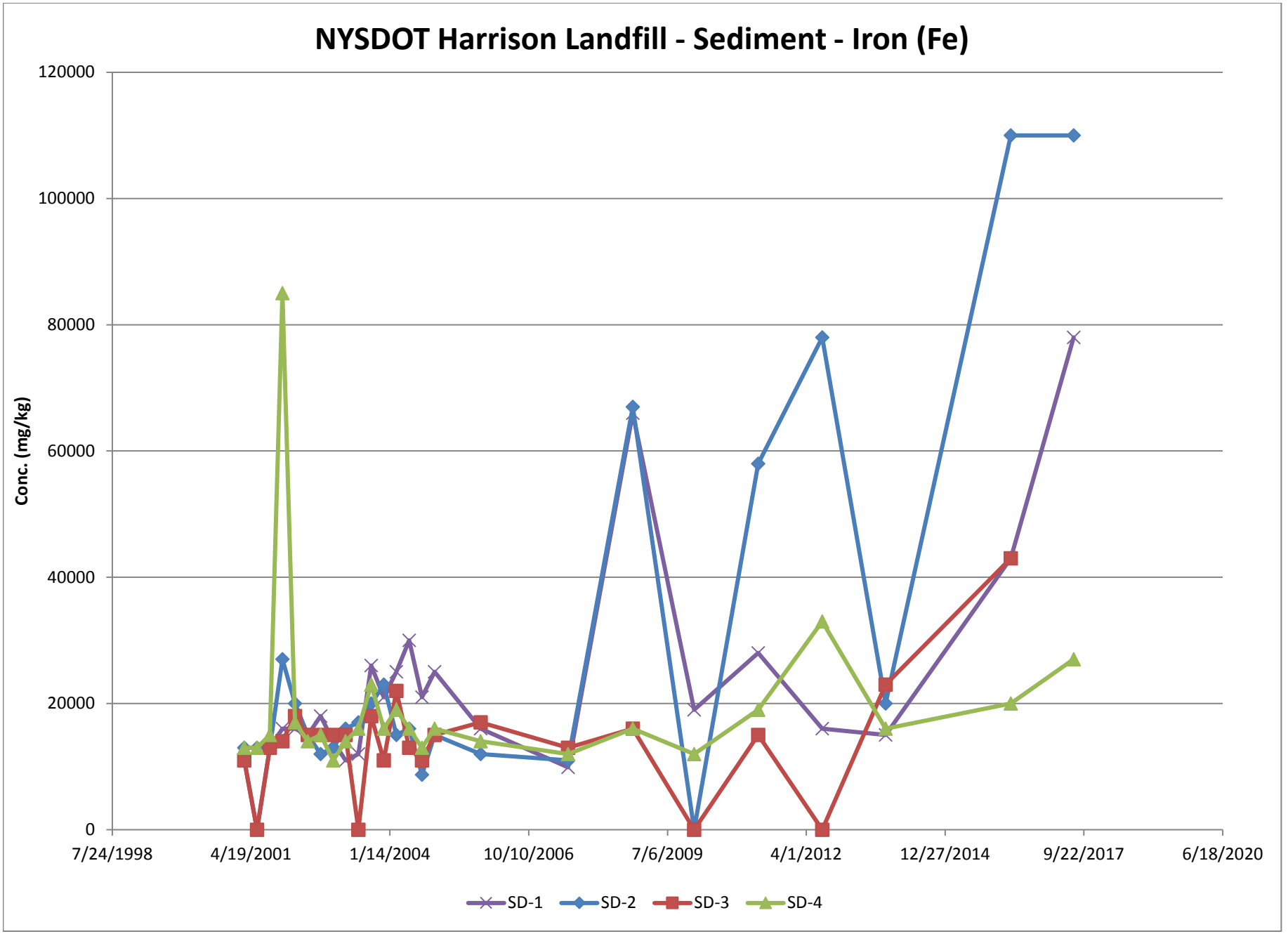

NYSDOT Harrison Landfill - Surface Water - Zinc (Zn)
Conc. (ug/L)
300
250
200
150
100
50
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

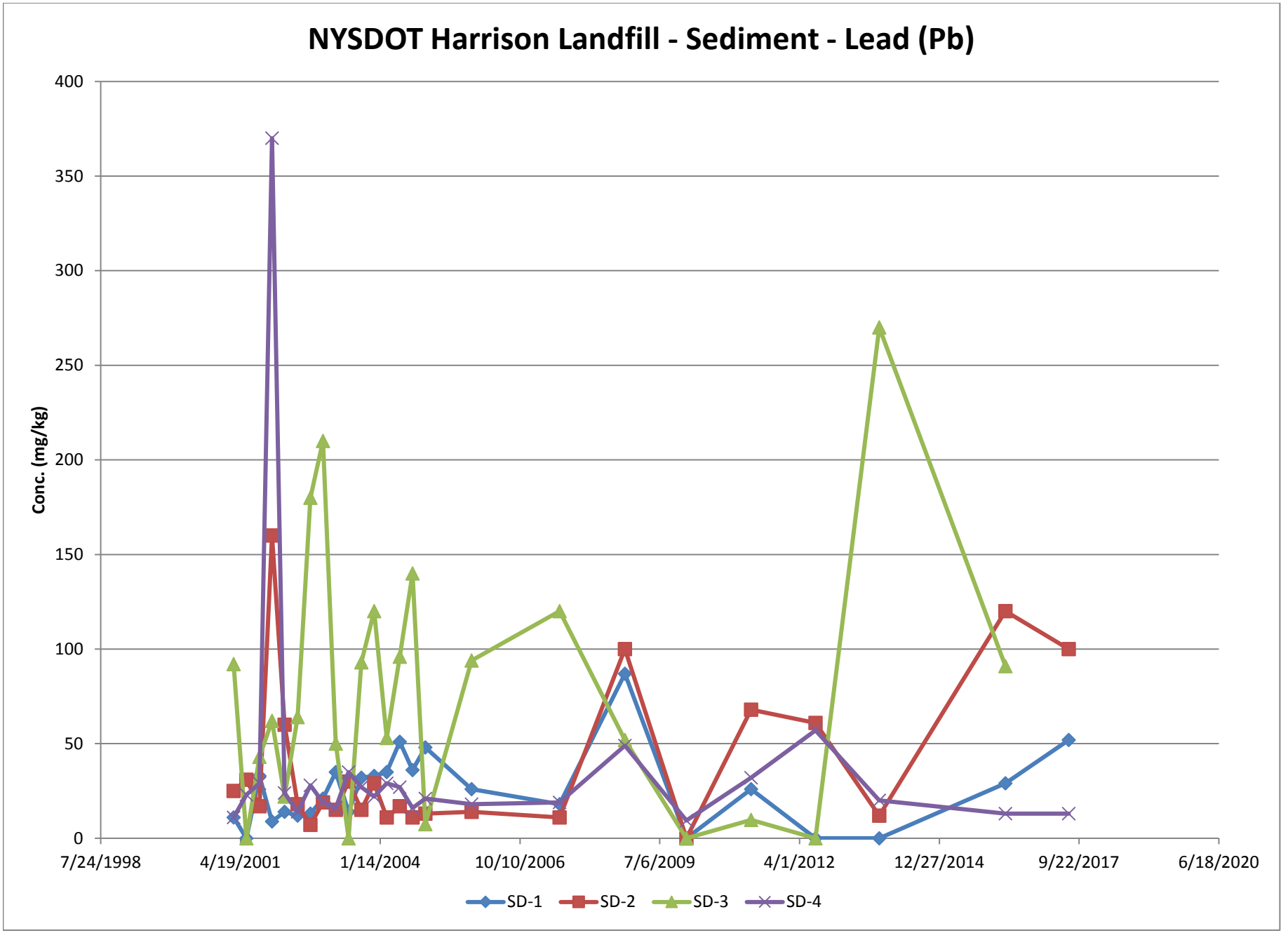

NYSDOT Harrison Landfill - Surface Water - Total VOCs
Conc. (ug/L)
18
16
14
12
10
8
6
4
2
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

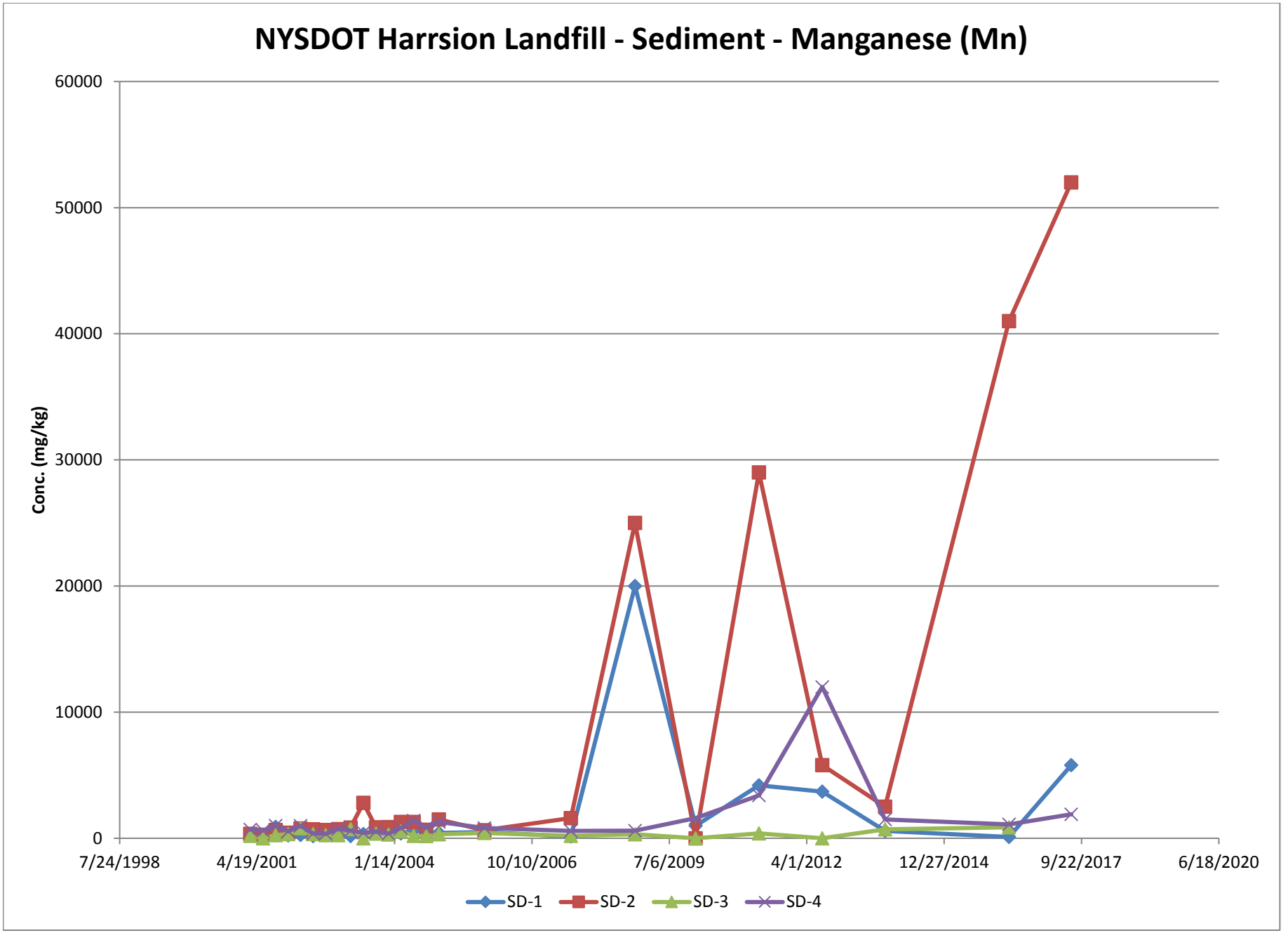

NYSDOT Harrison Landfill - Surface Water - Total SVOCs
Conc. (ug/L)
16
14
12
10
8
6
4
2
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SW-1
SW-2
SW-3
SW-4

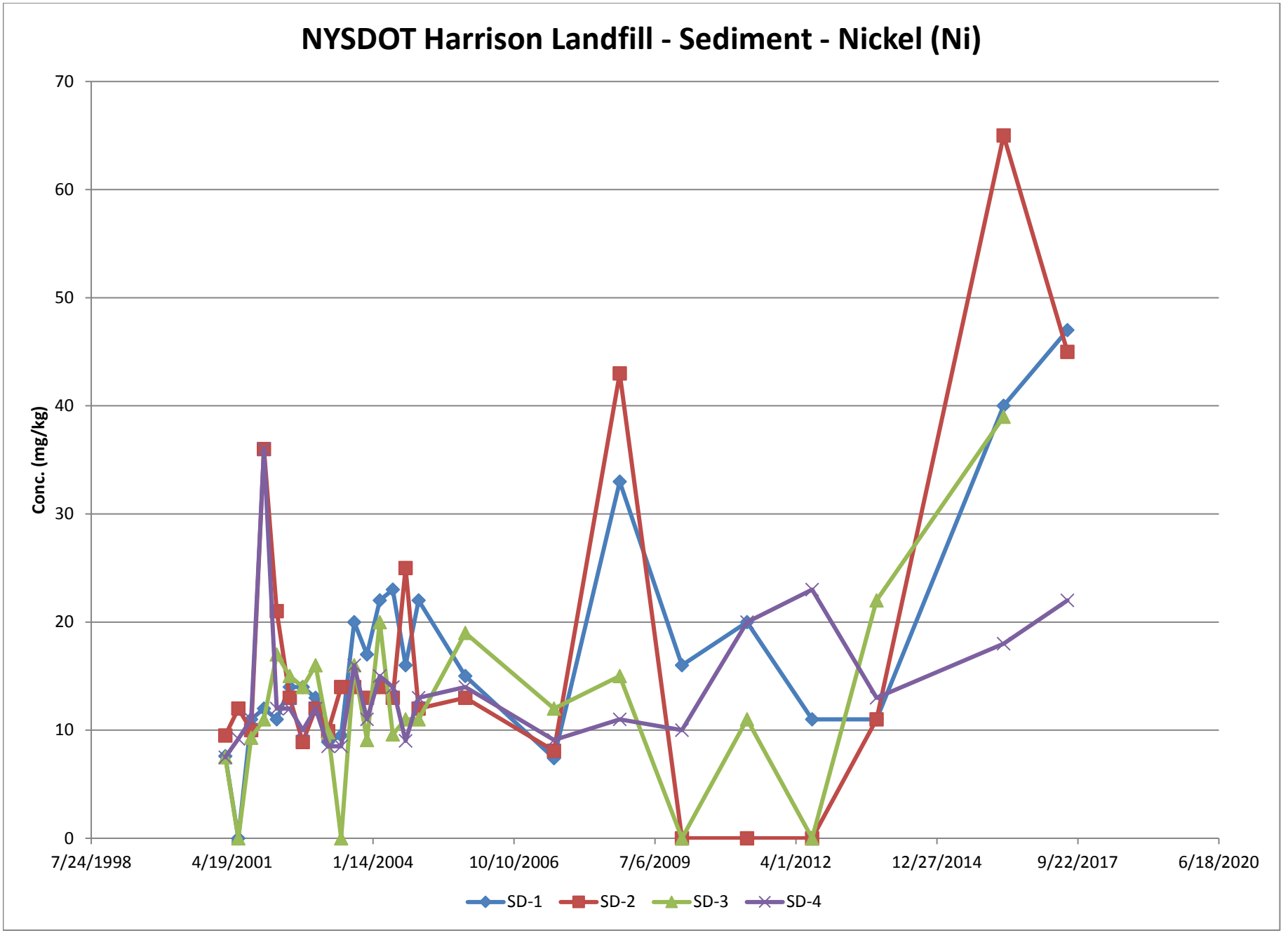

NYSDOT Harrison Landfill - Sediment - Cadmium (Cd)
Conc. (mg/kg)
3
2.5
2
1.5
1
0.5
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4

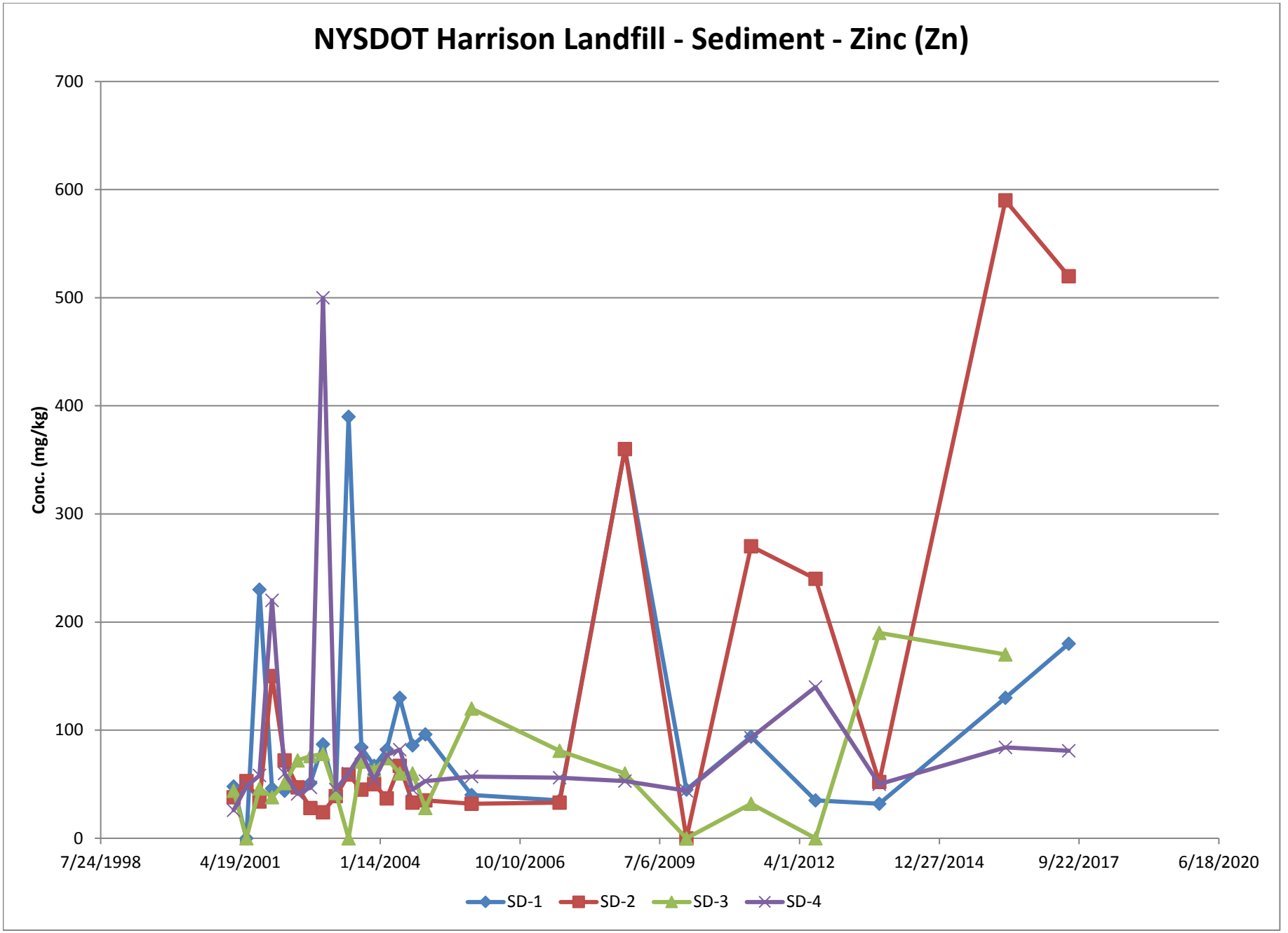

NYSDOT Harrison Landfill - Sediment - Copper (Cu)
Conc. (mg/kg)
1200
1000
800
600
400
200
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4

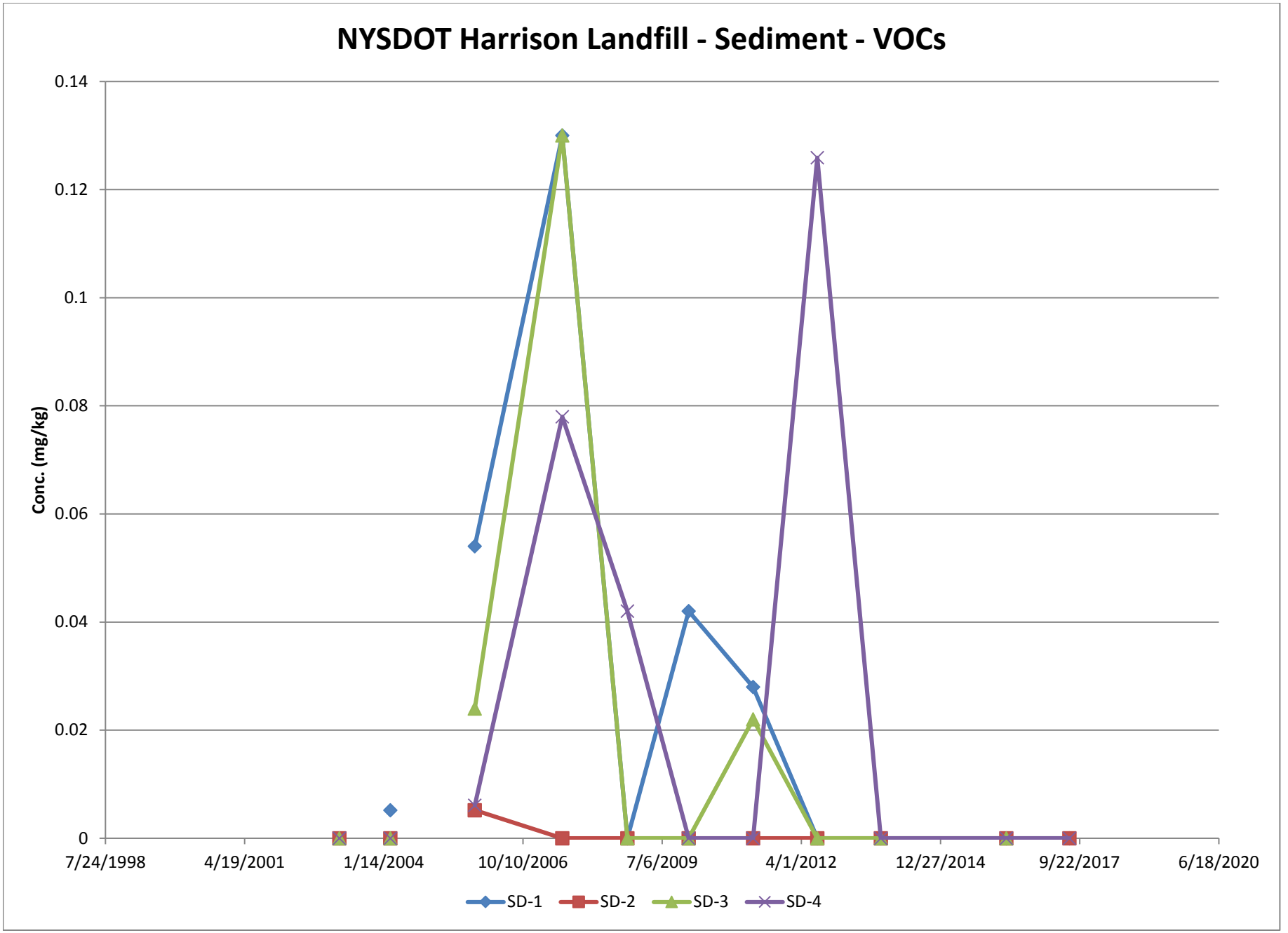

NYSDOT Harrison Landfill - Sediment - Iron (Fe)
120000
100000
80000
60000
40000
20000
0
Conc. (mg/kg)
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4

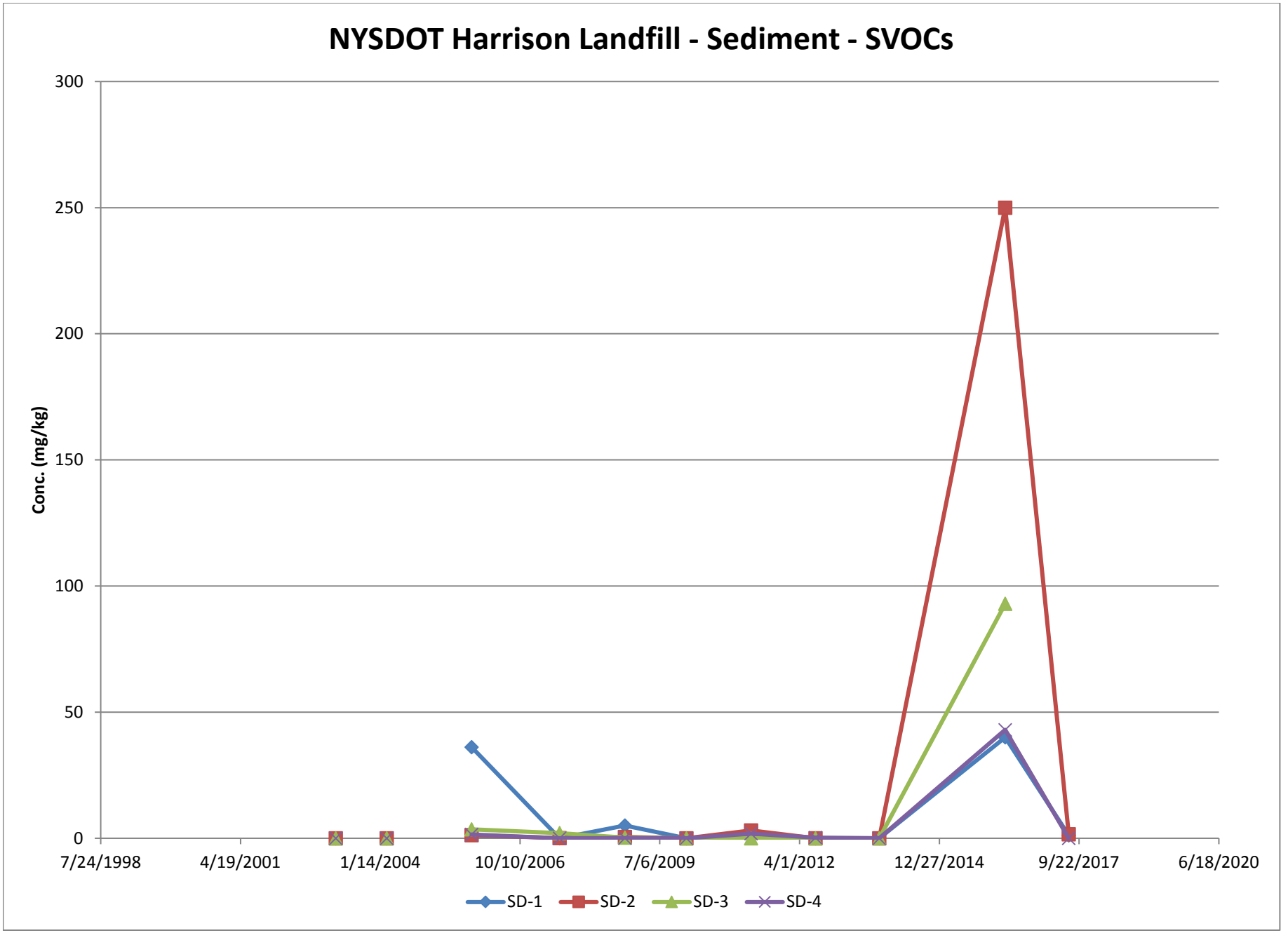

NYSDOT Harrison Landfill - Sediment - Lead (Pb)
Conc. (mg/kg)
400
350
300
250
200
150
100
50
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4


NYSDOT Harrsion Landfill - Sediment - Manganese (Mn)
Conc. (mg/kg)
60000
50000
40000
30000
20000
10000
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4


NYSDOT Harrison Landfill - Sediment - Nickel (Ni)
Conc. (mg/kg)
70
60
50
40
30
20
10
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4


NYSDOT Harrison Landfill - Sediment - Zinc (Zn)
Conc. (mg/kg)
700
600
500
400
300
200
100
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4


NYSDOT Harrison Landfill - Sediment - VOCs
Conc. (mg/kg)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4

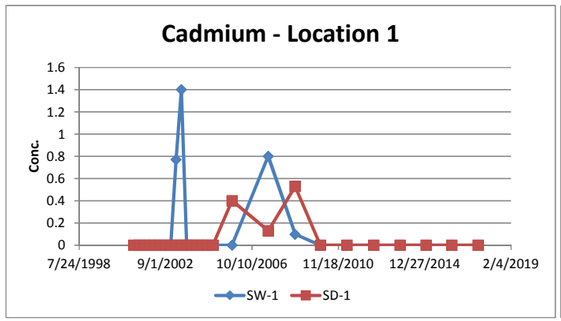

NYSDOT Harrison Landfill - Sediment - SVOCs
Conc. (mg/kg)
300
250
200
150
100
50
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
SD-1
SD-2
SD-3
SD-4

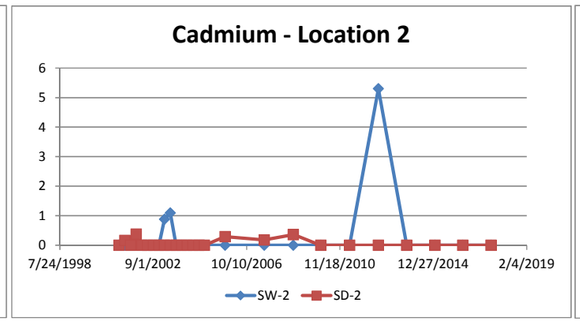
NYSDOT HARRISON LANDFILL

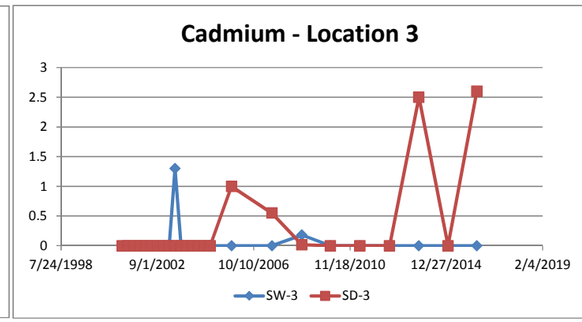
SURFACE WATER/SEDMINT

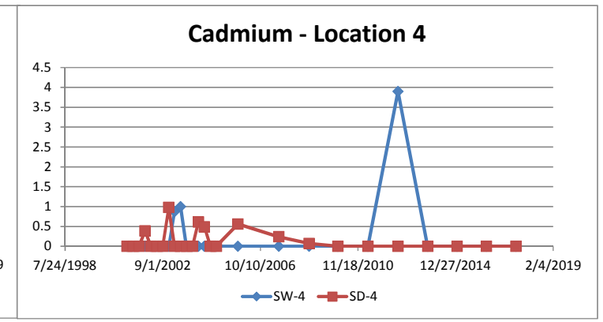
Cadmium

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015	4/13/2016	7/10/2017
SW-1	ND	ND	ND	ND	ND	ND	ND	ND	0.77	1.4	ND	ND	ND	ND	ND	ND	ND	0.8	0.098	ND	ND	ND	ND	ND	ND	ND
SW-2	ND	*	ND	ND	ND	ND	ND	ND	0.88	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	ND	5.3	ND	ND	ND	ND
SW-3	*	*	ND	*	*	ND	*	*	*	1.3	*	*	ND	ND	ND	ND	ND	*	0.18	*	ND	*	*	ND	ND	
SW-4	ND	ND	ND	ND	ND	ND	ND	ND	0.87	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND
SD-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.40	0.13	0.53	ND	ND	ND	ND	ND	ND	ND
SD-2	ND	0.16	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	0.18	0.36	*	ND	ND	ND	ND	ND	ND
SD-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.55	0.017	*	ND	*	2.5	ND	2.6	
SD-4	ND	ND	ND	0.39	ND	ND	ND	0.98	ND	ND	ND	ND	0.61	0.49	ND	ND	0.56	0.24	0.071	ND	ND	ND	ND	ND	ND	ND



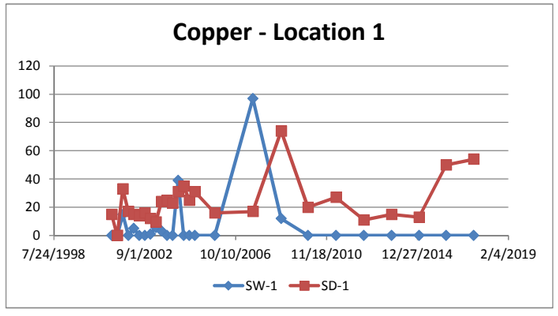


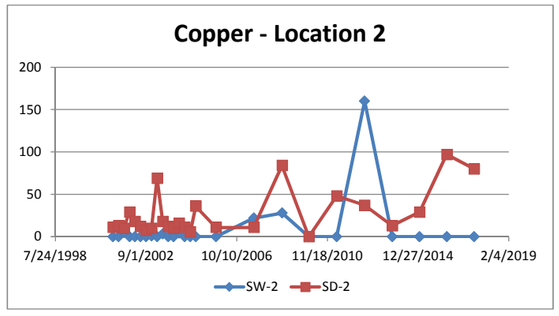


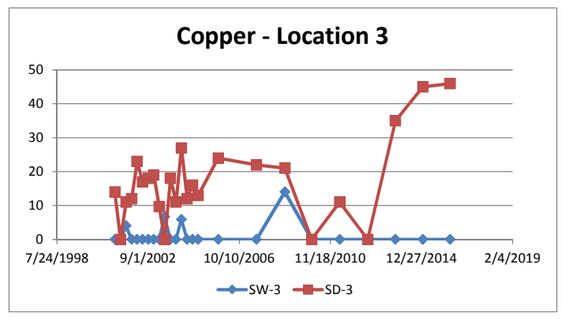


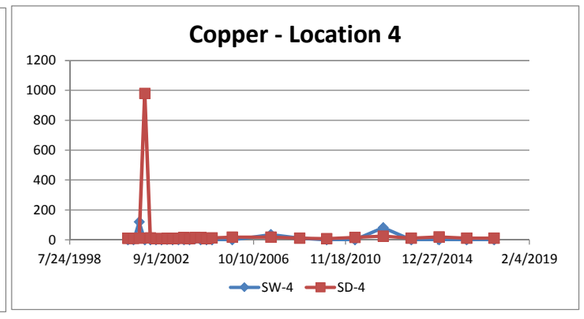
Copper

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015	4/13/2016	7/10/2017
SW-1	ND	ND	15	ND	5.1	ND	ND	0.88	5.7	3.3	ND	ND	39	ND	ND	ND	ND	97	12	ND	ND	ND	ND	ND	ND	ND
SW-2	ND	*	4.7	ND	ND	ND	ND	0.9	ND	3.2	ND	ND	4.1	ND	ND	ND	ND	22	28	*	ND	160	ND	ND	ND	ND
SW-3	*	*	4	*	*	ND	*	*	*	6.7	*	*	5.9	ND	ND	ND	ND	*	**14**	*	ND	*	*	ND	ND	
SW-4	ND	ND	120	ND	ND	ND	ND	0.61	ND	ND	ND	ND	5.4	ND	ND	ND	ND	35	12	ND	ND	81	ND	ND	ND	ND
SD-1	15	*	33	17	15	14	16	12	9.6	24	25	**23**	31	35	**25**	**31**	16	**17**	**74**	**20**	27	11	15	13	**50**	**54**
SD-2	11	13	10	29	18	12	7.6	10	69	18	12	10	16	11	5.8	**36**	11	11	84	*	48	37	13	29	**97**	**80**
SD-3	14	*	11	12	23	17	18	19	9.7	*	18	11	27	12	16	13	24	**22**	**21**	*	11	*	**35**	**45**	**46**	
SD-4	10	10	11	980	13	8.5	8.7	10	8.1	9	14	7.8	16	14	7.5	13	18	**18**	**11**	7.4	17	25	12	20	11	11



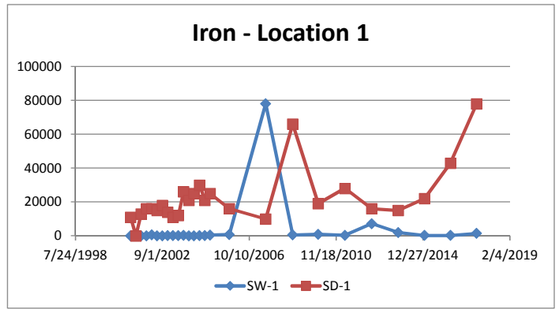


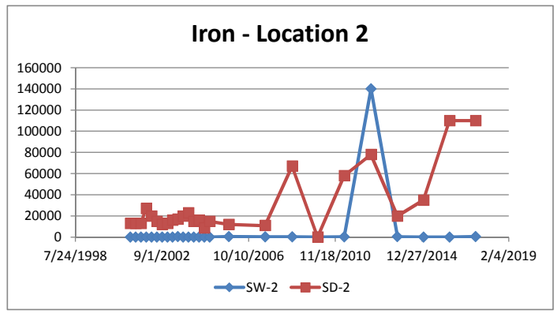


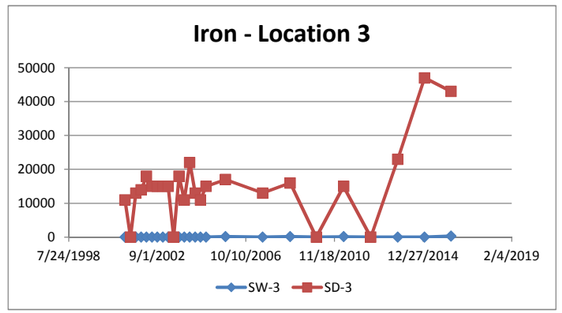


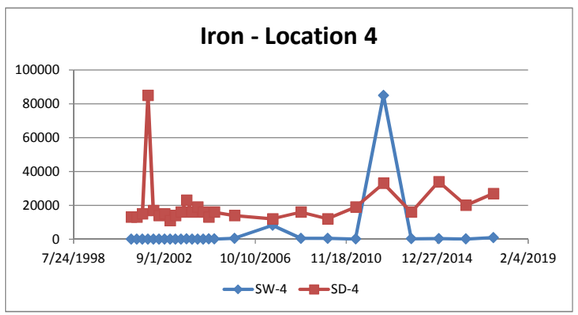
Iron

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015	4/13/2016	7/10/2017
SW-1	ND	69	ND	ND	500	ND	ND	84	80	41	210	ND	ND	120	140	380	700	78000	510	850	310	7,100	1,900	170	200	**1,400**
SW-2	ND	*	ND	ND	ND	ND	ND	28	ND	460	80	ND	ND	ND	130	ND	610	450	440	*	410	140,000	**520**	ND	ND	**650**
SW-3	*	*	ND	*	*	ND	*	*	*	240	ND	*	ND	ND	ND	ND	180	*	190	*	170	*	*	ND	310	
SW-4	ND	ND	ND	ND	ND	ND	110	31	40	110	190	ND	ND	ND	160	160	570	8200	530	570	170	85,000	300	380	180	**980**
SD-1	11000	*	13000	16000	16000	15000	18000	14000	11000	12000	26000	**21000**	25000	30000	**21000**	**25000**	16,000	9900	66000	19,000	28,000	16,000	15,000	**22,000**	43,000	78,000
SD-2	13000	13000	13000	27000	20000	15000	12000	13000	16000	17000	20000	**23000**	15000	16000	8700	15000	12,000	11000	67000	*	58,000	78,000	**20,000**	**35,000**	110,000	110,000
SD-3	11000	*	13000	14000	18000	15000	15000	15000	15000	*	18000	11000	22000	13000	11000	15000	17,000	13000	16000	*	15,000	*	**23,000**	**47,000**	43,000	
SD-4	13000	13000	15000	85000	17000	14000	15000	11000	14000	16000	23000	16000	19000	16000	13000	16000	14,000	12000	16000	12,000	19,000	33,000	16,000	**34,000**	20,000	27,000



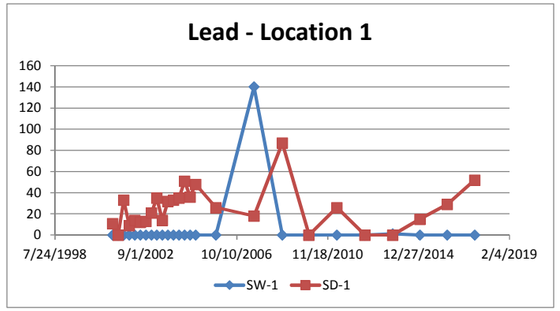


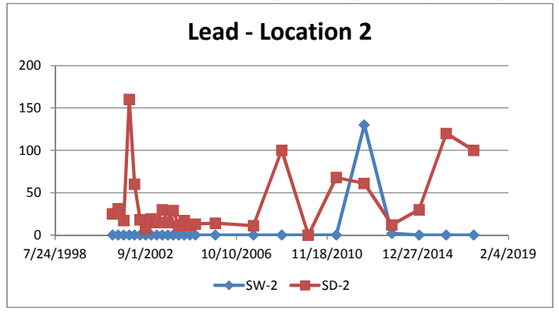


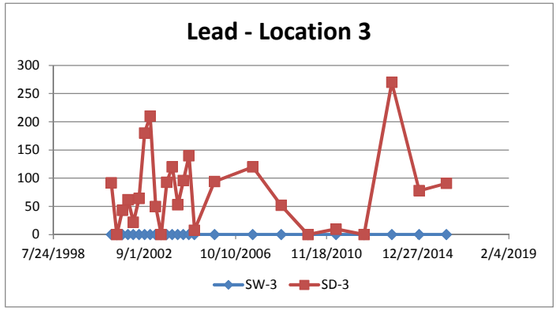


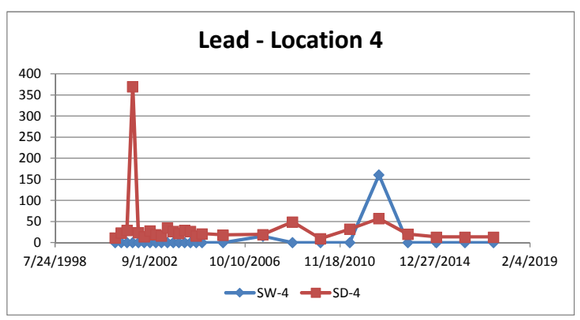
Lead

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015	4/12/2016	7/10/2017
SW-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140	ND	ND	ND	1.1	ND	ND	ND	
SW-2	ND	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	ND	130	1.9	ND	ND	ND
SW-3	*	*	ND	*	*	ND	*	*	*	ND	*	*	ND	ND	ND	ND	ND	*	ND	*	ND	*	*	ND	ND	
SW-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	160	ND	ND	ND	ND
SD-1	11	*	33	8.9	14	12	13	21	35	14	32	**33**	35	51	**36**	**48**	26	18	87	ND	26	ND	ND	15	29	**52**
SD-2	25	31	17	160	60	18	7.1	19	15	30	15	29	11	17	11	13	14	11	100	*	68	61	12	30	**120**	**100**
SD-3	92	*	43	62	22	64	180	210	50	*	93	**120**	53	96	**140**	7.5	94	**120**	**52**	*	9.7	*	**270**	**78**	91	
SD-4	11	23	29	370	24	14	28	19	16	35	27	22	29	27	16	21	18	19	49	9.4	32	57	20	13	13	13



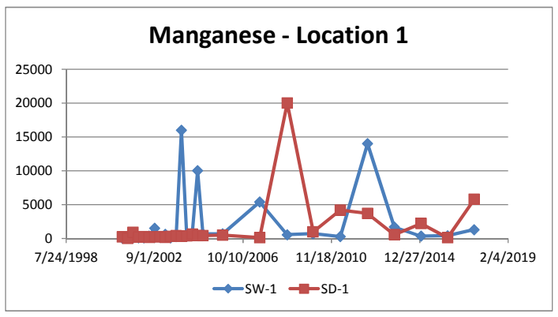


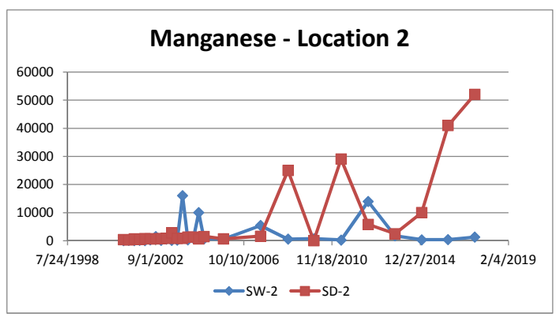


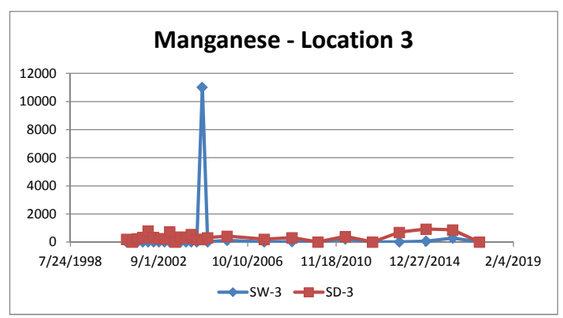


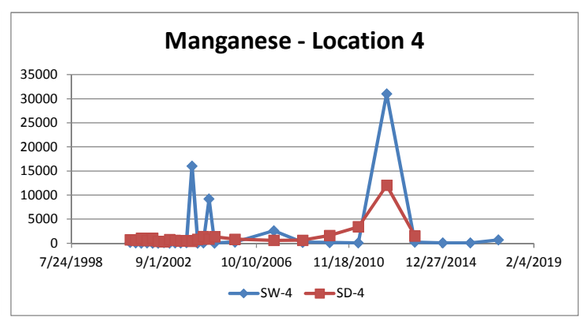
Manganese

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015	4/13/2016	7/10/2017
SW-1	65	99	46	95	80	340	1500	160	620	95	260	16000	330	820	10000	660	670	5400	550	700	260	14,000	1,700	340	400	**1,300**
SW-2	8.3	*	15	30	ND	12	460	2	8.7	6.5	22	15000	ND	16	10000	19	500	520	220	*	210	33,000	340	41	25	**370**
SW-3	ND	*	ND	*	*	11	*	*	*	99	*	*	ND	11	11000	12	110	*	21	*	210	*	*	62	280	*
SW-4	150	59	22	61	27	16	110	9.7	64	55	120	16000	25	63	9200	26	240	2600	180	130	50	31,000	230	70	60	**700**
SD-1	240	*	910	220	270	180	250	280	170	330	410	320	**380**	650	440	430	490	130	20000	**990**	4,200	3,700	**580**	**2,200**	110	5,800
SD-2	360	290	650	450	780	700	660	720	850	2800	870	**880**	1300	1300	**670**	**1500**	630	**1600**	**25000**	*	29,000	5,800	**2,500**	**10,000**	**41,000**	52,000
SD-3	200	*	240	340	800	330	240	250	730	*	370	300	550	200	180	310	420	200	310	*	390	*	**700**	**930**	870	*
SD-4	690	600	1000	540	990	370	350	740	610	450	530	370	820	1400	**850**	**1300**	810	**590**	**600**	**1,600**	3,400	12,000	**1,500**	**1,800**	**1,100**	1,900



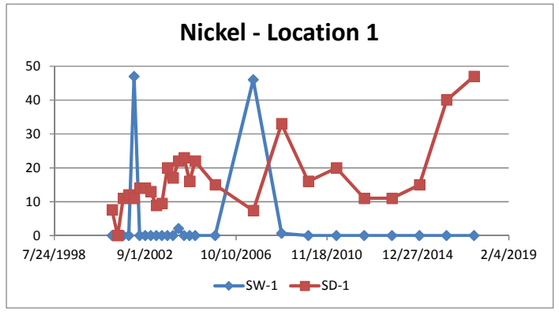


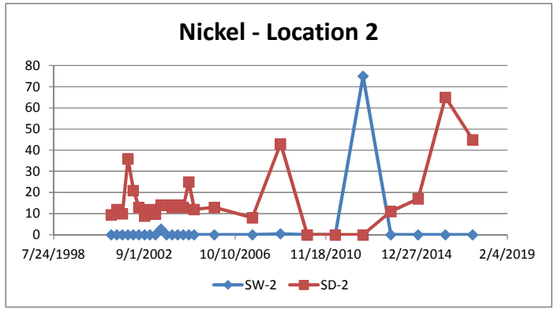


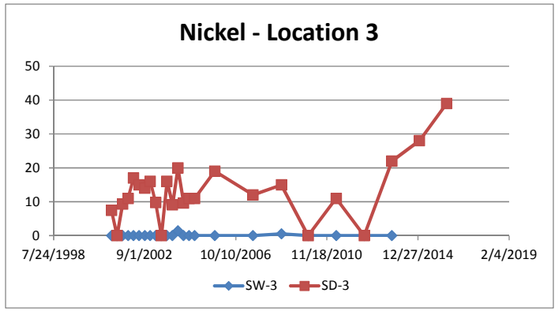


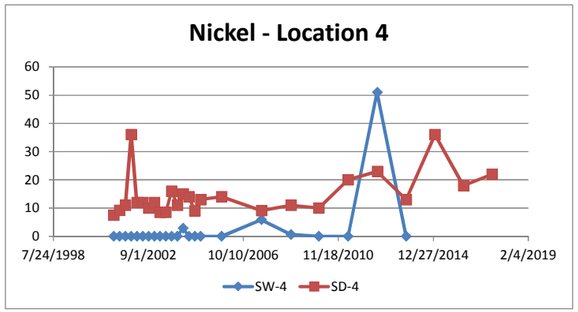
Nickel

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015	4/13/2016	7/10/2017
SW-1	ND	ND	ND	ND	47	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	46	0.66	ND	ND	ND	ND	ND	ND	ND
SW-2	ND	*	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	0.37	*	ND	75	ND	ND	ND	ND
SW-3	*	*	ND	*	*	ND	*	*	*	ND	*	*	1.4	ND	ND	ND	ND	*	0.54	*	ND	*	ND	ND	ND	
SW-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	ND	ND	ND	5.9	0.66	ND	ND	51	ND	ND	ND	ND
SD-1	7.6	*	11	12	11	14	14	13	8.9	9.5	20	**17**	22	23	16	**22**	15	7.4	33	16	20	11	11	15	**40**	**47**
SD-2	9.5	12	10	36	21	13	8.9	12	9.9	14	14	13	14	13	**25**	12	13	8.1	43	*	ND	ND	11	17	**65**	**45**
SD-3	7.5	*	9.3	11	17	15	14	16	9.8	*	16	9.1	20	9.6	11	11	19	12	15	*	11	*	**22**	**28**	39	
SD-4	7.5	9.2	11	36	12	12	10	12	8.5	8.5	16	11	15	14	9	13	14	9.1	11	10	20	23	13	36	18	22









Zinc

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015	4/12/2016	7/10/2017
SW-1	ND	ND	25	17	16	ND	ND	9.6	13	120	ND	ND	41	64	ND	51	57	270	ND	ND	ND	ND	ND	ND	ND	ND
SW-2	ND	*	4.1	18	10	ND	ND	ND	9.8	37	ND	ND	29	ND	ND	ND	5.8	ND	ND	*	ND	ND	ND	ND	ND	ND
SW-3	*	*	ND	*	*	53	*	*	*	19	*	*	40	54	ND	ND	7.1	*	ND	*	ND	ND	ND	ND	ND	
SW-4	ND	ND	4.1	11	7.2	ND	ND	ND	ND	ND	ND	ND	37	61	ND	ND	ND	38	ND	ND	ND	ND	ND	ND	ND	ND
SD-1	48	*	230	46	44	46	51	87	40	390	84	67	82	130	86	96	40	35	360	45	94	35	32	70	**130**	**180**
SD-2	38	53	34	150	72	47	28	24	39	59	45	50	37	67	33	35	32	33	360	*	270	240	52	**160**	**590**	**520**
SD-3	44	*	46	38	51	72	76	78	42	*	71	63	74	60	60	28	120	81	60	*	**32**	*	**190**	**140**	**170**	
SD-4	26	48	58	220	60	41	47	500	45	60	79	54	77	82	45	53	57	56	53	44	93	140	50	150	84	81