REMEDIAL INVESTIGATION: SAMPLING AND ANALYSIS OF GROUNDWATER, COVER SOIL AND SURFACE WATER AND SEDIMENTS

Task Order 310DP-8
NONCD0000310 – Franklinton Dump
Franklinton, Franklin County, NC

Prepared for:
North Carolina Department of Environmental Quality
Division of Waste Management
Superfund Section
Inactive Hazardous Sites Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
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State Contract N10002S

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March 19, 2016

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1.0 Introduction

This report describes investigation activities performed at the Franklinton Dump (NONCD0000310) as authorized by the North Carolina Division of Waste Management, Pre-Regulatory Landfill Unit (the Unit) in their approval letter dated September 3, 2015 The work was performed in general accordance with WithersRavenel's (WR's) *Task Orders 310DP-7 and 310DP-8 Cost Proposal*, dated August 28, 2015.

The Unit's intended goals for this stage of the investigation were to ***"…installation of permanent landfill groundwater monitoring wells and collect groundwater samples from existing wells to determine the subsurface hydrogeology of the plumes of the concerned analytes at the site."***

<u>Modified Tasks</u>
The following tasks were modified from the approved Work Plan:

- The Work Plan stipulated that drilling contractors, SAEDACCO, Inc. of Fort Mills, S.C, were to install seven permanent wells (MW-1, MW-2B, MW-3, MW-5, MW-7 through MW-9,) ***outside*** the waste limits to a depth to intersect the groundwater table. However, due to several delays and mechanical failures during the advancement of wells MW-3, MW-2B, and MW-1, it was decided that the drilling contractor should be replaced. Quantex of Raleigh, N.C., was brought in to install wells MW-5, MW-7, MW-8, and MW-9.

- During advancement of permanent wells MW-1 and MW-8, bedrock (refusal) was encountered before the groundwater table. Therefore, the groundwater wells were advanced into bedrock. Groundwater monitoring well MW-1 was advanced using rock coring drilling method and MW-8 was advanced using air hammer drilling methods.

- Due to head pressure differences, the static water tables did not span the well screens for MW-1 and MW-2B. During advancement of soil boring MW-1, water-bearing fractures were not encountered until approximately 30 feet below ground surface (BGS). The drilling contractor "set the well" by placing 10 feet of well screen in the borehole, ranging from approximately 20 feet BGS to 30 feet BGS. However, after well construction was complete, and the static water level was measured, it was revealed that the static water table had risen to approximately 18.5 feet BGS, which was above the well screen. Conversely, based on the static water table elevation recorded during the installation of temporary well TW-2B in June 2014, the boring for MW-2B was advanced to a depth of 27 feet BGS, which was also where the drill team encountered competent rock and water. However, during the water sampling event the well was dry, so a sample could not be collected.

- During the advancement of cover soil borings SB-21, SB-25, SB-26, and SB-27, waste was encountered within six inches of the ground surface. Therefore, soil samples were not collected from the borings.

2.0 Groundwater Monitoring Well Installation

The drilling contractors used chain saws and other hand-clearing methods to remove small trees and bushes from the proposed drill rig paths. Clearing was limited to minor trees and vegetation blocking access in the general vicinity of the drill site locations requested by the Unit.

SAEDACCO used a track-mounted Diedrich D-50 drill rig to advance the soil borings and install monitoring wells MW-2B, MW-3, and MW-1. Quantex used a track-mounted 8810 Geoprobe® drill rig to advance the soil borings and install monitoring wells MW-5, MW-7, MW-8, and MW-9. Both drill teams used 4.25-inch diameter hollow stem augers (augers) to advance soil borings at the proposed well locations. Once static groundwater was encountered, the soil borings were advanced approximately five additional feet to span the static water table or to refusal. As mentioned above, soil borings MW-1 and MW-8 encountered bedrock prior to groundwater and were advanced by drilling through the rock until the first water-bearing fractures were encountered. Borings MW-1 and MW-8 encountered rock at an approximate depths of 17 feet BGS and 9 feet BGS, respectively.

Soil borings were generally advanced through residuum, into partially-weathered rock (PWR) and, at some locations, competent rock. The residuum was described as "silty clays/clayey silts with varying amounts of medium-to-coarse sands". These soils were characterized as exhibiting low-to-moderate plasticity, were moist and soft-to-firm, and ranged in color from orange, tan, to brown. Two borings (MW-1 and MW-8) were advanced through partially-PWR, which consisted primarily of gravel-sized quartz, potassium feldspar, and plagioclase feldspar particles. Bedrock was encountered at the shallowest interval (approximately 9 feet BGS) in MW-8, located on the southwest side of the waste disposal area. Both borings, MW-1 and MW-8 were advanced into competent rock. Boring MW-1 was terminated in granite. Due to the drilling method (air hammer), rock in MW-8 was pulverized during the boring advancement and could not be positively identified.

Throughout soil boring advancement, soil cuttings were monitored using a Toxic Vapor Analyzer (TVA), equipped with a photo-ionization detector (PID) and a flame ionization detector (FID). The vapor results were recorded in the field boring logs. The TVA was regularly field-calibrated and/or bump-checked by WR personnel using 100 ppm Isobutylene gas, as noted in the field notes (see **Appendix A, Field Documents and Records**).

Subsequently, permanent wells were constructed into soil boring locations designated MW-1, MW-2B, MW-3, MW-5, MW-7, MW-8, and MW-9 using 2-inch diameter, Schedule 40 PVC 0.010-inch machine-slotted screen sections set to span the static water table with sufficient matching PVC riser pipe to bring the well approximately two to three feet above the ground surface. Fine sand was tremmied into each borehole annulus to a depth of approximately two feet above the screened interval to create the sand pack. Approximately two feet of bentonite pellets were then tremmied on top of the sand pack and hydrated to complete the seal. After the bentonite had cured, cement grout was tremmied into the annulus to seal the annular space from the top of the bentonite seal to the ground surface. The well was fitted with a locking cap and finished above grade with a metal protective well cover. A 2x2

feet square concrete pad, four inches thick, was constructed around the base of each protective well casing.

Following installation, WR personnel developed the wells using bailers. Well development consisted of purging drilling fluids, suspended solids and sediments by removing three-to-five well volumes from each well. All generated development water was discharged to the downgradient surface of the waste disposal boundary area. Following development, the wells were allowed to recharge and equilibrate.

A WR geologist documented details for each boring location in the field notes presented in **Appendix A**. Formal boring logs were subsequently prepared for each boring location, and are presented in **Appendix B, Soil Boring Logs.** Groundwater well construction details are summarized in **Table 1, Groundwater Monitoring Well Construction Details.** A copy of the Well Construction Records (GW-1 Forms), which were submitted by the driller to the appropriate regulatory agency, are included in **Appendix C, Well Construction Records**. All boring locations were identified using hand-held global positioning system (GPS) equipment. A **Summary of GPS Data** has been prepared as **Appendix D** with all boring locations presented in the State Plane Coordinate System using North American Datum of 1983 (NAD83) format in longitude and latitude to the fifth order. **Figure 1, Site Map** depicts the soil boring/monitoring well locations.

3.0 Cover Soil Sampling

All cover soil borings were advanced on October 30, 2015, using a properly decontaminated, 2-inch diameter, stainless-steel hand auger. Cover materials encountered were described as "Orange/brown to black sandy clays". During the advancement of borings SB-21, SB-25, SB-26, and SB-27, waste was encountered within six inches of the ground surface. Therefore, soil samples were not collected from these borings. Soil samples from the six-inch interval were collected from borings SB-22, SB-23, and SB-28. During the advancement of SB-22, waste was encountered at an interval between 6 inches BGS to 12 inches BGS. Therefore, a soil sample representing the 18-inch interval was not collected from SB-22. Soil samples were collected at the 18-inch interval from borings SB-23 and SB-28. Abandonment was accomplished by returning the unused soil cuttings to their respective borehole and tamping the backfill. Photocopies of field notes recorded during the activities are presented in **Appendix A.**

The samples, collected in accordance with the approved Work Plan, were immediately placed into re-sealable plastic sample bags and transferred into laboratory-supplied containers. Five soil samples and one "blind duplicate" sample were placed into a cooler containing ice to maintain the internal temperature to approximately 4°C, and transported under standard Chain-of-Custody protocol to a State of North Carolina-certified analytical laboratory for analysis of the following constituents;

- Volatile organic compounds (VOCs) via EPA Test Method 8260B;
- 1,4-Dioxane via EPA Test Method 8260SIM;
- Semivolatile organic compounds (SVOCs) via EPA Test Method 8270C;
- 14 Metals via EPA Test Method 6020;
- Mercury via EPA Test Method 7471;
- Ammonia via SM4500;
- Nitrates via EPA Test Method 300;
- Sulfates via EPA Test Method 300, and;
- Asbestos via EPA 600/R-93/116 Method

A trip blank sample, for laboratory analysis of VOCs only, was submitted with the cover soil samples.

Cover Soil Sampling Results

Soil constituent concentrations were compared to the Inactive Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals for Residential Health (PSRG-RH) and the Protection of Groundwater Soil Remediation Goals (PSRG-PGW). Contaminants of Interest were identified above established Regulatory Standards at the following concentration, or within the following concentrations:

- Benzo(A) anthracene 0.651 to 0.784 mg/Kg
- Benzo(B)fluoranthene 0.214 to 1.05 mg/Kg
- Benzo(A)pyrene 0.738 to 0.815 mg/Kg
- Ideno(1,2,3-CD)pyrene 0.0.446 mg/Kg (detected only in SB-23 (18")
- Antimony 1.12 to 6.06 mg/Kg
- Arsenic 1.74 to 7.40 mg/Kg
- Cadmium 3.35 to 5.79 mg/Kg
- Chromium (total) 15.8 to 28.4 mg/Kg
- Iron 28,500 to 47,500 mg/Kg
- Lead 26.6 to 375 mg/Kg
- Manganese 117 to 615 mg/Kg

Table 2, Soil Sample Analytical Results (Detections Only), summarizes the analytical detections for the constituents included within each analytical method compared to their respective Regulatory Standards. **Figure 2, Soil Sampling Location with Analytical Results** summarizes constituents that were detected at concentrations that exceeded their respective applicable regulatory standard. A copy of the laboratory analytical report has been included in **Appendix E, Laboratory Reports**. Cover soil sample locations are presented in **Appendix D.**

Cover soil samples were also analyzed for asbestos via EPA Test Method 600/R-93116. As shown on **Table 2,** chrysotile was detected at <0.1% in sample SB-23 (18 inch) DUP. **Figure 2** does *not* include the asbestos detection in the detection box. A copy of the EMSL Laboratory analytical report has been included in **Appendix E**.

4.0 Surface Water and Sediment Sampling

Two surface water samples (SW-21-W and SW-22-W) and two sediment samples (SW-21-S and SW-22-S) were collected at locations selected by the Unit and submitted for analytical review. The surface water samples were collected by dipping a laboratory-cleaned and -provided one-liter container into the pond and then decanting the samples into the proper laboratory-supplied containers. The sediment samples were collected using a properly-decontaminated, stainless-steel hand auger and immediately placed into re-sealable plastic sample bags prior to ultimate transfer to laboratory-supplied containers. All sampling equipment was decontaminated between sampling locations. Two surface water samples and one "blind duplicate" surface water sample plus two sediment samples and one "blind duplicate" sediment sample were placed into a cooler containing ice, maintained at 4^{0}C, and transported under standard Chain-of-Custody protocol to a State of North Carolina-certified analytical laboratory for analysis of the same analytical suite listed in Section 3, except for asbestos. A trip blank sample, for laboratory analysis of VOCs only, was submitted with the sediment and surface water samples.

Surface Water Sampling Results

Surface water sample results were compared to the *Water Quality Standards Applicable to the Surface Waters and Wetlands of North Carolina* as listed in 15A NCAC 2B ("the 2B Standards"), or if there was no 2B Standard, the *North Carolina Groundwater Quality Standards* as listed in 15A NCAC 2L ("the 2L Standards")(aka referenced Regulatory Standards). The table below present the contaminants reported at concentrations above their respective Regulatory Standards in micrograms per liter (µg/L).

Contaminant(s)	2B Standards (µg/L)	2L Standards (µg/L)	Concentration (µg/L)		
			SW-21-W	SW-22-W	SW-DUP-W (SW-21-W)
Copper	7.0	NA	12.7	ND	6.75
Iron	1000	NA	16,200	5,290	9,820
Manganese	200	NA	5,530	775	1,580
Zinc	50	NA	340	27.5	90.0

Notes:

ND *Concentration **N**ot **D**etected above Laboratory Method Detection Limits.*

NA *2L Standard **N**ot **A**pplicable since 2B Standard established.*

Sediment Sampling Results

The table below presents contaminants reported at concentrations above their respective IHSB PSRG-RH or PSRG-PGW Standards.

Contaminant(s)	PSRG-RH (mg/Kg)	PSRG-PGW (mg/Kg)		Concentration (mg/Kg)	
			SW-21-S	SW-22-S	SW-DUP-S
Antimony	6.2	0.90	1.25	ND	ND
Arsenic	0.39	5.8	7.47	7.32	12.9
Chromium	0.29	3.8	18.9	19.3	24.9
Iron	11,000	150	17,100	17,600	17,200
Manganese	360	65	181	500	449
Silver	78	3.4	ND	ND	22.3

Notes:

*ND Concentration **N**ot **D**etected above Laboratory Method Detection Limits.*

Table 3, Surface Water Sample Analytical Results (Detections Only) and **Table 4, Sediment Sample Analytical Results (Detections Only)** summarizes the detections for the target constituents included within each analytical method compared to their respective Regulatory Standards. **Figure 3, Sediment and Surface Water Sampling Location Map** depicts the surface water and sediment sampling locations and summarizes constituents that were detected at concentrations that exceeded their respective applicable regulatory standard. Sediment and surface water sample locations are tabulated in **Appendix D**. A copy of the laboratory analytical report has been included in **Appendix E**.

5.0 Groundwater Sampling

On November 19, 2015, WR personnel returned to the site to sample the seven newly installed wells (MW-1, MW-2B, MW-3, MW-5, MW-7 through MW-9) and the one existing well (MW-6). Prior to sample collection, an electronic water level indicator was used to record the depth to static groundwater from the top of casing (TOC) in each well. No measurable amount of groundwater was present in well MW-2B, so a sample was not collected. After recording of depth-to-water values, five of the wells were purged via low-flow methods using a peristaltic pump and virgin polyethylene tubing at a flow rate that resulted in minimal drawdown of the water table. Due to the depth of the water table in wells MW-3 and MW-7, the peristaltic pump was unable to "pull the water", so WR personnel used disposable bailers to purge the wells. Field parameters, including dissolved oxygen (DO), temperature (^{O}F), conductivity, pH, oxidation reduction potential (ORP), and turbidity were recorded every three minutes during purging activities. **Table 5, Field Parameter Results** summarizes the stable field parameters recorded for each well. Groundwater sampling purge forms with recorded field parameters are included in **Appendix A**.

Once field parameters were deemed stable, as determined by less than 10% variance in any two readings, WR personnel used the peristaltic pump to collect groundwater samples from wells MW-1, MW-2B, MW-5, MW-6, MW-8 and MW-9, and transfer them into laboratory-provided containers. As indicated above, due to the depth of static water in wells MW-3 and MW-7, WR personnel used bailers to collect groundwater samples from the two wells. It should be noted that turbidity readings for groundwater samples collected from wells MW-1,

MW-3, MW-6, and MW-7, were elevated (>10 NTU) due to suspended silt particles from the surrounding lithology. Samples were immediately placed on ice in coolers to maintain them to approximately 4°C. Purge water generated during sampling activities was discharged to the ground immediately down-gradient of the well.

Seven groundwater samples, and one "blind duplicate" sample (collected from well MW-8), were shipped under standard Chain-of-Custody protocol to a State of North Carolina-certified laboratory for the analytical suite (excluding asbestos) presented in Section 3 above. A trip blank sample, for laboratory analysis of VOCs only, was also submitted with the groundwater samples.

Groundwater Sampling Results

Laboratory analytical results were compared to their respective 2L Standards. Ranges for compound concentrations that were equal to, or exceeding, their respective 2L Standard included:

- Bis(2-Ethylhexyl)Phthalate 11.5 µg/L (only detected in MW-3)
- Arsenic 28.9 µg/L (only detected in MW-7)
- Beryllium 43.1 µg/L (only detected in MW-7)
- Cadmium 4.94 to 6.18 µg/L
- Chromium (total) 66.0 to 329 µg/L
- Iron 1,740 to 212,000 µg/L
- Lead 16.2 to 240 µg/L
- Manganese 32.5 to 21,300 µg/L
- Nickel 410 µg/L (only detected in MW-7)
- Selenium 27.4 µg/L (only detected in MW-7)
- Zinc 1,890 µg/L (only detected in MW-7)

Table 6, Groundwater Sample Analytical Results (Detections Only) summarizes the detections for the target constituents included within each analytical method compared to their respective Regulatory Standards. **Figure 4, Groundwater Sampling Locations with Results** illustrates the location of groundwater samples that contained contaminant concentrations that exceeded their respective Regulatory Standards. A copy of the laboratory analytical report has been included in **Appendix E**.

6.0 Quality Assurance Discussion

This assessment was generally conducted under those Quality Assurance/Quality Control (QA/QC) protocols outlined in of the IHSB *Guidelines for Addressing Pre-Regulatory Landfills & Dumps, Appendix C, Standard Field Protocols,* dated December 2013, as outlined below:

Media duplicate samples were collected from locations designated SB-23 (6 inches), SW-22-S, SW-21-W and MW-8, and submitted for laboratory analysis. Trip blanks were submitted with container shipments on October 28th and 30th, and November 19, 2015.

The laboratory reported that all samples submitted under Task Order 310DP-7 were received in acceptable condition and within the appropriate holding times. Samples were processed in accordance with previously-referenced methods. WR observed no reportable QA/QC issues associated with the analytical procedures conducted in association with this Report; however, those technical issues considered relevant by the laboratory have been included in the Laboratory Report – QA/QC Data Review form placed as a cover sheet upon the laboratory analytical report included in **Appendix E**.

7.0 Certification

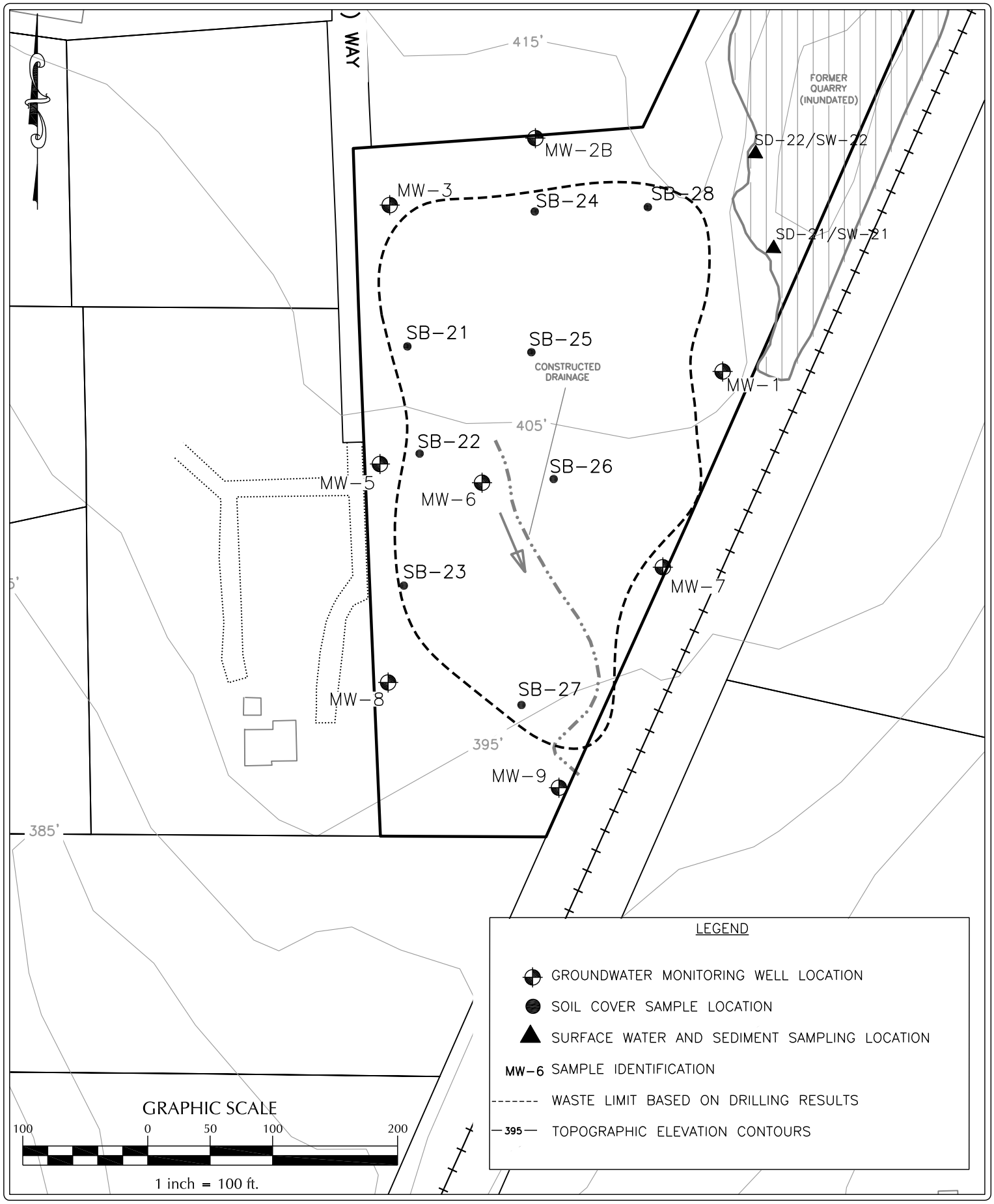
This report has been prepared as outlined in the Unit's *Request for Work Plan &Cost Proposal for Task Orders 310DP-7* dated August 8, 2015, and in keeping with direction supplied by the Unit through issuance of investigation and reporting guidelines, and communication with the Unit staff members during performance of requested activities. Questions regarding the information in this report and any related conclusions should be directed to the Unit staff. I certify that, to the best of my knowledge after thorough investigation, the information contained in or accompanying this report is true, accurate, and complete.

WithersRavenel, Inc

___ ____

Mark Brown, LG, PG, RSM
Senior Geologist
Senior Project Manager

FIGURES



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SITE MAP

FRANKLINTON DUMP – NONCD0000310
PARKEIS (PARKERS) WAY,
FRANKLINTON, NC

DRAWN BY:	SCALE:	JOB NO:
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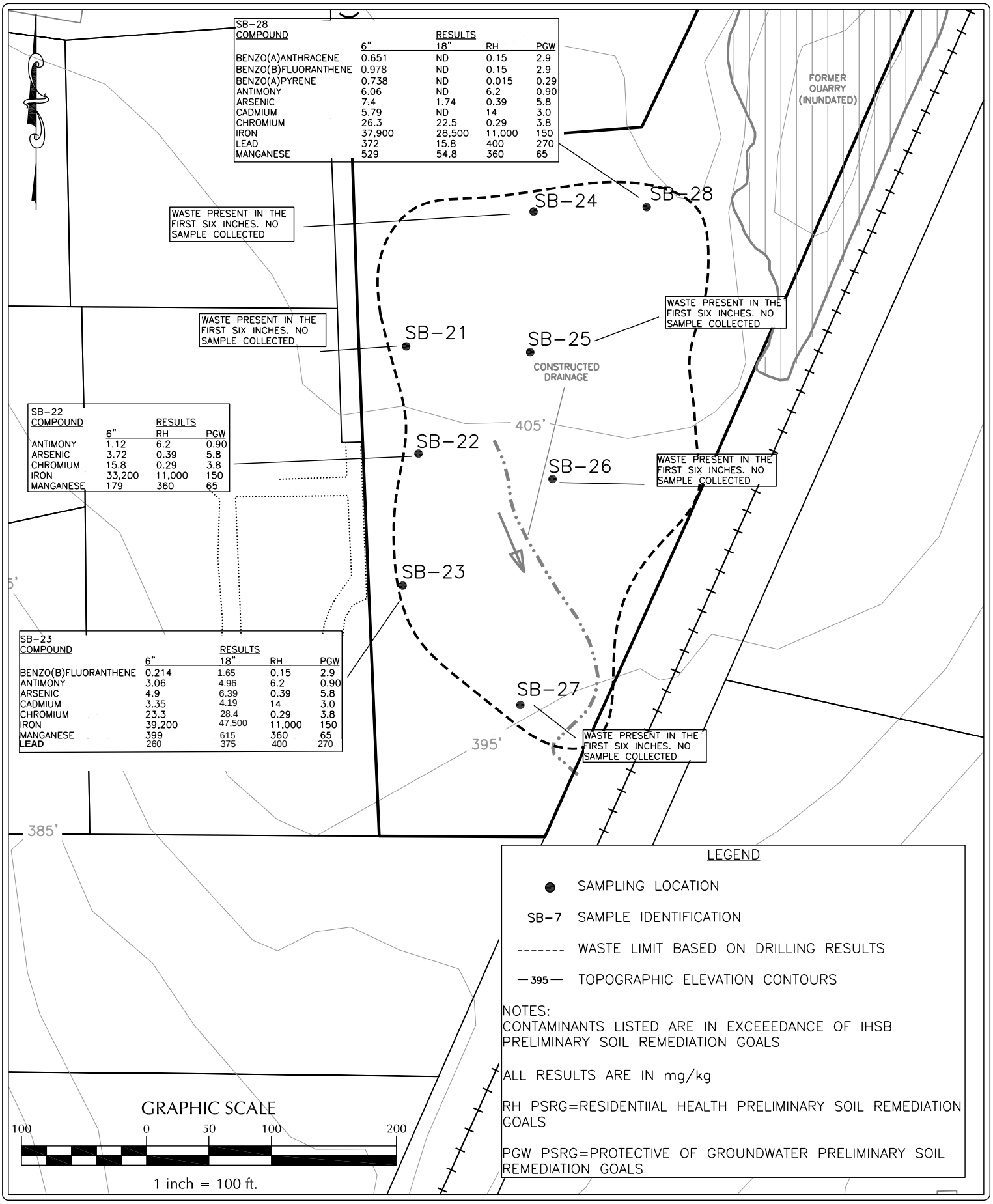

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SOIL SAMPLING LOCATIONS WITH ANALYTICAL RESULTS

FRANKLINTON DUMP – NONCD0000310
PARKEIS (PARKERS) WAY,
FRANKLINTON, NC

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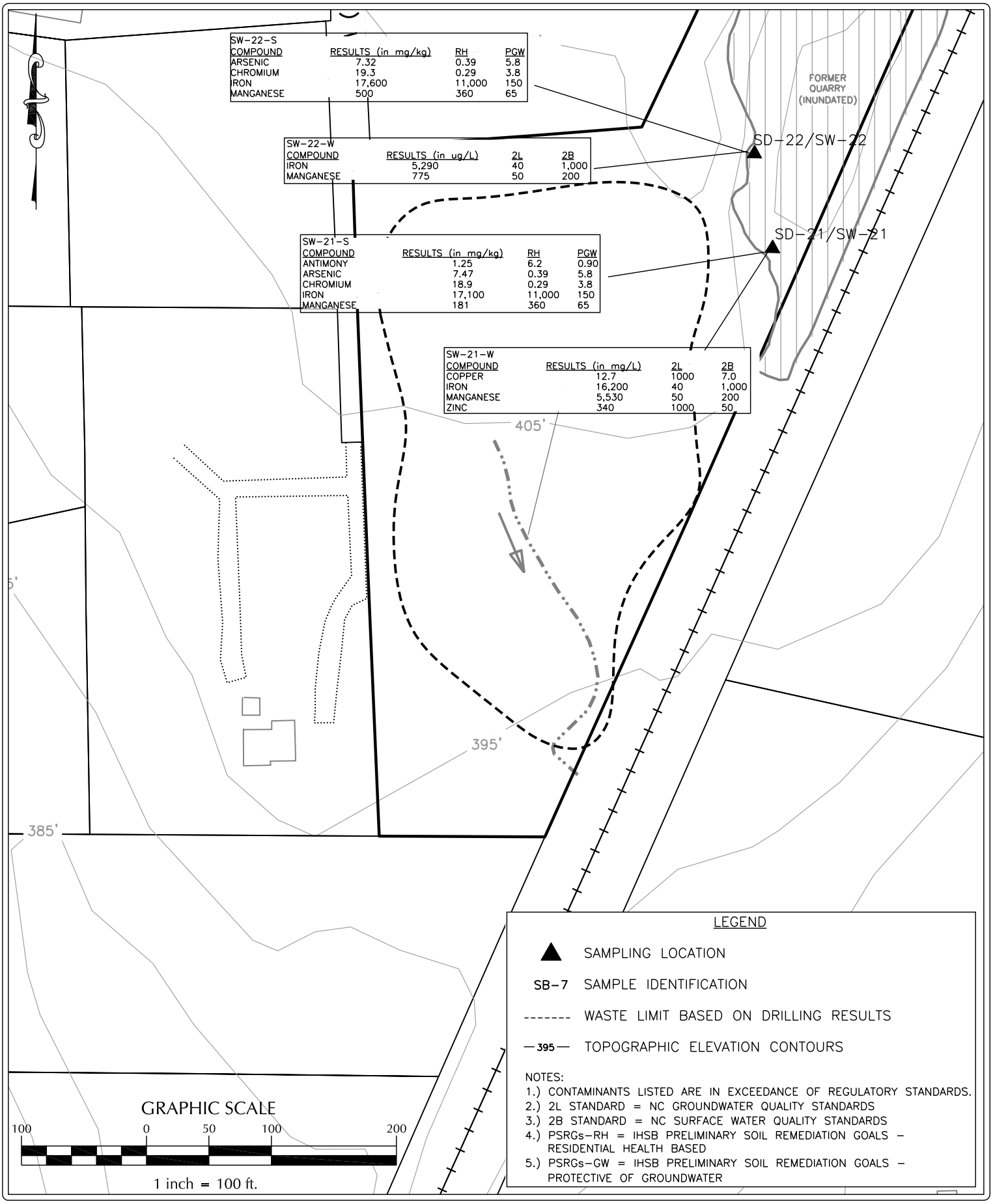

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SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS MAP

FRANKLINTON DUMP – NONCD0000310
PARKEIS (PARKERS) WAY,
FRANKLINTON, NC

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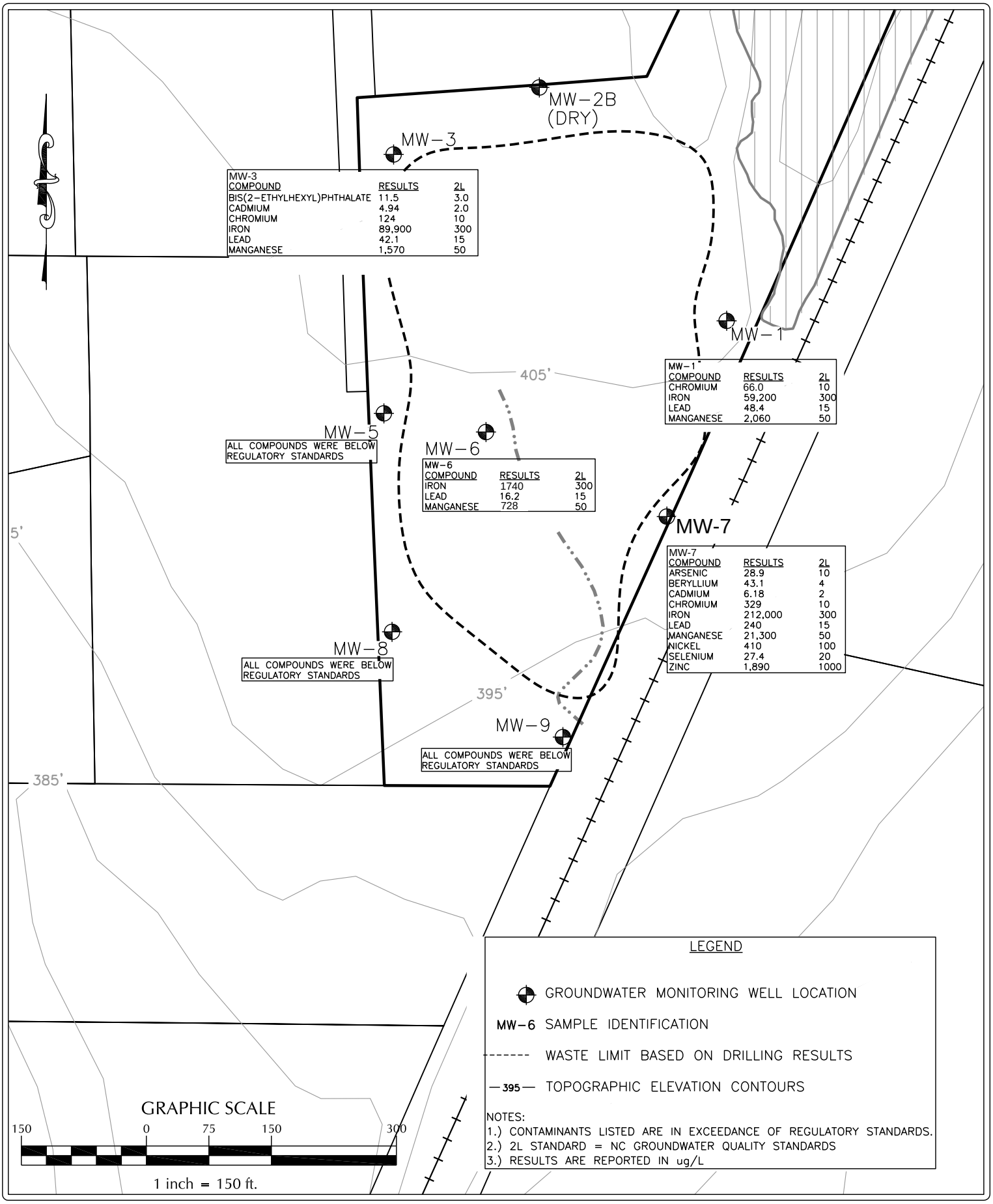
SMB	3/19/16	3



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GROUNDWATER SAMPLING LOCATIONS WITH ANALYTICAL RESULTS

FRANKLINTON DUMP – NONCD0000310
PARKEIS (PARKERS) WAY,
FRANKLINTON, NC

DRAWN BY:	SCALE:	JOB NO:
CF	1"=150'	02100001.30
CHECKED BY:	DATE:	FIGURE NO.
SMB	3/19/16	4

TABLES

Table 1
Groundwater Monitoring Well Construction Details
Franklinton Dump-NONCD0000310
Franklinton, Franklin County, NC

Well Designation	Latitude	Longitude	Ground Surface Elevation (ft MSL)	TOC Elevation (ft MSL)	Depth to Water on 11/19/15 (ft TOC)	Water Eelvation (ft MSL)	Well Depth (ft BLS)	Screen Interval (ft BLS)
MW-1	36.08956	-78.46444	NM	NM	19.44	NM	34	24 To 34
MW-2B	36.09008	-78.46430	NM	NM	DRY	NM	27	17 To 27
MW-3	36.08992	-78.46469	NM	NM	31.08	NM	31	21 To 31
MW-5	36.08935	-78.46470	NM	NM	30.40	NM	31	21 To 31
MW-6	36.08931	-78.46444	NM	NM	28.19	NM	40	30 To 40
MW-7	36.08912	-78.46394	NM	NM	35.50	NM	40	30 To 40
MW-8	36.08887	-78.46469	NM	NM	27.42	NM	30	20 To 30
MW-9	36.08864	-78.46423	NM	NM	22.68	NM	25	15 To 25

Notes:
"MW" = Permanent Groundwater Monitoring Well
ft = Feet
MSL = Above Mean Sea Level
TOC = Top of Casing
BLS = Below Land Surface
Longitude and Latitude Coordinates are Displayed in NC State Plane NAD 1983 Survey Feet
NM=Not Measured/Site has not been surveyed

Table 2
Cover Soil Sample Analytical Results (Detections Only)
Franklinton Dump - NONCD0000310
Parkeis Way
Franklinton, Franklin County, NC

Sample ID	**IHSB Standard**		SB-22 (0-6")		SB-23 (0-6")		SB-23 (18")(DUP)		SB-23 (18")		SB-28 (0-6")		SB-28 (18")	
Collection Date			10/30/2015		10/30/2015		10/30/2015		10/30/2015		10/30/2015		10/30/2015	
Comment			Soil Sample		Soil Sample		Soil Sample		Soil Sample		Soil Sample		Soil Sample	
Parameter	**PSRG-RH (mg/Kg)**	**PSRG-PGW (mg/Kg)**	Result (mg/Kg)	Qual	Result (mg/Kg)	Qual	Result (mg/Kg)	Qual	Result (mg/Kg)	Qual	Result (mg/Kg)	Qual	Result (mg/Kg)	Qual
VOCs by EPA Method 8260B														
Acetone	12000	24	0.0714		0.115		0.14		ND		0.181		0.234	
Benzene	1.2	5.1	ND		0.00681		0.00771		ND		0.00759		0.00662	
2-Butanone (MEK)	5400	28000	ND		0.0141		0.0159		ND		0.0194		0.0318	
Tetrachloroethene	16	78	ND		ND		ND		ND		0.00153		ND	
1,4 Dioxane by GC/MS (SIM)														
The target analyte was not detected at a concentration above its Laboratory Method Detection Limits (MDLs).														
SVOCs by EPA Method 8270D														
Benzo(A)anthracene	0.15	2.9	ND		ND		**0.784**		ND		**0.651**		ND	
Benzo(B)fluoranthene	0.15	2.9	ND		**0.214**		**1.05**		ND		**0.978**		ND	
Benzo(K)Fluoranthene	1.5	29	ND		ND		0.409		ND		ND		ND	
Benzo(G,H,I)perylene	NA	NA	ND		ND		0.535		ND		0.413		ND	
Benzo(A)pyrene	0.015	0.29	ND		ND		**0.815**		ND		**0.738**		ND	
Chryrsene	15	290	ND		ND		0.742		ND		0.626		ND	
Fluoranthene	460	6000	ND		0.221		1.77		ND		1.21		ND	
Indeno(1,2,3-CD)Pyrene	0.15	2	ND		ND		**0.446**		ND		ND		ND	
Phenanthrene	NA	NA	ND		ND		**1.08**		ND		**0.661**		ND	
Pyrene	340	4600	ND		ND		1.16		ND		0.768		ND	
Metals by EPA Method 6020A/7471B														
Antimony	6.2	0.90	**1.12**		**3.06**		**4.96**		ND		**6.06**		ND	
Arsenic	0.39	5.8	**3.72**		**4.90**		**6.39**		**3.01**		**7.4**		**1.74**	
Cadmium	14	3.0	0.968		**3.35**		**4.19**		ND		**5.79**		ND	
Chromium	0.29	3.8	**15.8**		**23.3**		**28.4**		**20.7**		**26.3**		**22.5**	
Copper	620	700	491		105		162		17.8		149		7.51	
Iron	11000	150	**33,200**		**39,200**		**47,500**		**45,900**		**37,900**		**28,500**	
Lead	400	270	100		260		**375**		26.6		**372**		15.8	
Manganese	360	65	**179**		**399**		**615**		**117**		**529**		54.8	
Nickel	300	130	6.94		15.1		29.7		3.91		25.5		3.42	
Selenium	78	2.1	0.632		ND		0.733		0.739		0.73		ND	
Zinc	4600	1200	219		578		792		46.9		1120		28.4	
Mercury	1.9	3.1	0.0941		0.23		0.236		0.0945		0.18		0.0667	
Nitrogen & Sulfate by EPA Method 9056A														
Nitrogen, Ammonia	NL	NL	**7.31**		ND		ND		ND		ND		ND	
Nitrogen, Nitrate	2600	NL	**5.97**		**2.42**		**1.88**		ND		**4.3**		ND	
Sulfate	NL	NL	ND		ND		ND		ND		ND		76.9	
Asbestos by EPA Method 600/R93/116														
Chrysotile	NL	NL	ND		ND		<0.1%		ND		ND		ND	

Notes:
Soil Boring (Sampling Intervals) presented in Feet Below Ground Surface (BGS)
Results in **BOLD** Represent an Exceedance in the Applicable Regulatory Standards
IHSB = Inactive Hazardous Sites Branch
PSRG = Preliminary Soil Remediation Goals
RH = Residential Health
PGW = Protection of Groundwater
mg/Kg = Milligrams per Kilogram (PPM)
NL = Not Listed
ND = Compound Not Detected

Table 3
Surface water Analytical Results (Detections Only)
Franklinton Dump - NONC0000310
Franklinton, Franklin County, NC

Sample ID	**2L Standards**	**2B Standards**	SW-21-W		SW-22-W		SW-DUP-W		TRIP BLANK	
Collection Date			10/28/2015		10/28/2015		10/28/2015		10/28/2015	
Comment			Aqueous Sample		Aqueous Sample		Duplicate of SW-21-W		Aqueous Sample	
Parameter			Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual
VOCs by EPA Method 8260B										
p-Isopropyltoluene	NA	NA	1.79		1.85		1.24		ND	
1,4 Dioxane by GC/MS (SIM)										
The target analyte was not detected at a concentration above its Laboratory Method Detection Limits (MDLs).										
SVOCs by EPA Method 8270D										
None of the target analytes were detected at concentrations above their respective Laboratory Method Detection Limits (MDLs).										
Metals by EPA Method 6020A/7471B										
Arsenic	10	10	5.99		ND		2.55		NA	
Copper	1000	7	**12.7**		ND		6.75		NA	
Iron	40	1000	**16,200**		**5,290**		**9,820**		NA	
Lead	15	25	6.2		ND		4.54		NA	
Manganese	50	200	**5,530**		**775**		**1,580**		NA	
Nickel	100	25	5.44		2.05		4.96		NA	
Zinc	1000	50	**340**		27.5		**90.0**		NA	
Nitrogen & Sulfate by EPA Method 9056A										
Nitrogen, Nitrate	10,000	10,000	738		ND		1,010		NA	

Notes:
2L Standards = 15A NCAC 02L .0202 NC Groundwater Standards
2B Standards = 15A NCAC 02B .0300 Water Quality Standards Applicable to the Surface Waters and Wetlands of NC
Results in **BOLD** Represent an Exceedance in the Applicable Regulatory Standards
* = Interim Maximum Allowable Concentrations (IMACs)
NA = Not Analyzed
ND = Compound Not Detected
NE = Standard Not Established
NS = Not Sampled (Insufficient stream flow)
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds

Table 4
Sediment Sample Analytical Results (Detections Only)
Franklinton Dump-NONCD0000310
Franklinton, Franklin County, NC

Sample ID	**IHSB Standard**		SW-21-S		SW-22-S		SW-DUP-S		TRIP BLANK	
Collection Date			10/28/2015		10/28/2015		10/28/2015		10/28/2015	
Comment			Sediment Sample		Sediment Sample		Sediment Sample		Aqueous Sample	
Parameter	**PSRG-RH (mg/Kg)**	**PSRG-PGW (mg/Kg)**	Result (mg/Kg)	Qual	Result (mg/Kg)	Qual	Result (mg/Kg)	Qual	Result (ug/L)	Qual
VOCs by EPA Method 8260B										
Acetone	12000	24	0.11		0.272		0.479		ND	
1,4 Dioxane by GC/MS (SIM)										
The target analyte was not detected at a concentration above its Laboratory Method Detection Limits (MDLs).										
SVOCs by EPA Method 8270D										
None of the target analytes were detected at concentrations above their respective Laboratory Method Detection Limits (MDLs).										
Metals by EPA Method 6020A/7471B										
Antimony	6.2	0.90	**1.25**		ND		ND		NA	
Arsenic	0.39	5.8	**7.47**		**7.32**		**12.9**		NA	
Chromium	0.29	3.8	**18.9**		**19.3**		**24.9**		NA	
Copper	620	700	218		62.1		86.2		NA	
Iron	11000	150	**17,100**		**17,600**		**17,200**		NA	
Lead	400	270	37.1		92.2		126		NA	
Manganese	360	65	**181**		**500**		**449**		NA	
Mercury	2.0	1.0	0.115		0.182		0.257		NA	
Nickel	300	130	13.0		11.7		13.2		NA	
Silver	78	3.4	ND		ND		**22.3**		NA	
Thallium	0.16	0.28	ND		ND		ND		NA	
Zinc	4600	1200	181		416		351		NA	
Nitrogen & Sulfate by EPA Method 9056A										
Nitrogen, Ammonia	NL	NL	10.0		43.4		82.5		NA	
Sulfate	2600	NL	97.7		ND		ND		NA	

Notes:
Results in **BOLD** Represent an Exceedance in the Applicable Regulatory Standards
IHSB = Inactive Hazardous Sites Branch
PSRG = Preliminary Soil Remediation Goals
RH = Residential Health
PGW = Protection of Groundwater
mg/Kg = Milligrams per Kilogram (PPM)
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
NL = Not Listed
ND = Compound Not Detected
NA = Not Analyzed

Table 5
Field Parameters Results
Franklinton Dump-NONCD0000310
Franklinton, Franklin, NC

Well Designation	Dissolved Oxygen (mg/L)	Temperature (ºC)	Conductivity (µS/cm)	pH (standard)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
MW-1	1.36	16.7	150	5.94	-20.7	20.9
MW-2	DRY					
MW-3	Parameters not recorded due to the use of a bailer to collect the sample					
MW-5	5.03	19.3	126	5.03	268.0	8.3
MW-6	2.05	19.0	668	6.06	268.0	17.3
MW-7	Parameters not recorded due to the use of a bailer to collect the sample					
MW-8	5.10	18.7	168	5.87	258.0	1.8
MW-9	4.27	17.8	541	6.03	252.0	0.8

Notes:

Parameters were recorded once readings stabalized (<10% varience between sequential readings).
mg/L = Milligrams per Liter
ºC = Degrees Celcius
µS/cm = MicroSiemens per Centimeter
mV = Millivolts
NTU = Nephelometric Turbidity Units

Table 6
Groundwater Sample Analytical Results (Detections Only)
Franklinton Dump - NONCD0000310
Parkeis Way
Franklinton, Franklin County, NC

Sample ID		MW-1		MW-2		MW-3		MW-5		MW-6		MW-7		MW-8		DUP-GW		MW-9		TRIP BLANK	
Collection Date		11/19/2015		11/19/2015		11/19/2015		11/19/2015		11/19/2015		11/19/2015		11/19/2015		11/19/2015		11/19/2015		11/19/2015	
Comment		Aqueous Sample		Aqueous Sample		Aqueous Sample		Aqueous Sample		Aqueous Sample		Aqueous Sample		Aqueous Sample		Duplicate of MW-8		Aqueous Sample		Aqueous Sample	
Parameter	**2L Standards**	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual	Result (ug/L)	Qual
VOCs by EPA Method 8260B																					
P-Isopropyltoluene	25	ND		NS		7.77		ND		ND		ND		ND		ND		ND		ND	
1,4 Dioxane by GC/MS (SIM)																					
The target analyte was not detected at a concentration above its Laboratory Method Detection Limits (MDLs).																					
SVOCs by EPA Method 8270D																					
Bis(2-Ethylhexyl)Phthalate	3	ND		NS		**11.5**		ND		ND		ND		ND		ND		ND		NA	
Metals by EPA Method 6020A/7471B																					
Arsenic	10	7.39		NS		8.10		ND		ND		**28.9**		ND		ND		ND		NA	
Beryllium	4*	2.81		NS		3.11		ND		ND		**43.1**		ND		ND		ND		NA	
Cadmium	2	ND		NS		**4.94**		ND		ND		**6.18**		ND		ND		ND		NA	
Chromium	10	**66.0**		NS		**124**		ND		3.49		**329**		2.07		2.06		ND		NA	
Copper	1000	38.0		NS		208		ND		28.2		700		ND		ND		ND		NA	
Iron	300	**59,200**		NS		**89,900**		ND		**1,740**		**212,000**		ND		ND		ND		NA	
Lead	15	**48.4**		NS		**42.1**		ND		**16.2**		**240**		ND		ND		ND		NA	
Manganese	50	**2,060**		NS		**1,570**		**32.5**		**728**		**21300**		24.8		20.4		ND		NA	
Nickel	100	37.3		NS		42.9		ND		21.4		**410**		2.05		ND		ND		NA	
Selenium	20	ND		NS		5.01		ND		2.25		**27.4**		ND		ND		ND		NA	
Silver	20	2.48		NS		ND		ND		4.20		ND		ND		ND		ND		NA	
Zinc	1000	90.1		NS		328		ND		62.2		**1,890**		ND		ND		ND		NA	
Nitrogen & Sulfate by EPA Method 9056A																					
Nitrogen, Ammonia	1500*	306		NS		ND		ND		ND		**532**		ND		ND		ND		NA	
Nitrogen, Nitrate	10,000	ND		NS		299		1,540		ND		ND		1,630		1,630		ND		NA	
Sulfate	250,000	ND		NS		ND		7,310		134,000		104,000		8,900		8,810		ND		NA	

Notes:
2L Standards = 15A NCAC 02L .0202 NC Groundwater Standards
* = Interim Maximum Allowable Concentrations (IMACs)
NA = Not Analyzed
ND = Compound Not Detected
NE = Standard Not Established
NS = Not Sampled (Insufficient water)
Concentrations exceeding the respective Standard(s) are shown in **Bold**.
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds

APPENDIX A

FIELD DOCUMENTS AND RECORDS

0800 onsite

0830 D Terry onsite

Calibrate YSI & turbidity meter

4 Buffer solution 4A1515 exp 9/16
7 Buffer solution 5AD425 exp 4/17
10 Buffer solution 5AA164 exp 1/17

Conductivity Lot# 5GF1078 exp 5/16

ORP model # 160-22 12/17/15

1400 leave site

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Groundwater Sampling Form

Job Number 07100001.30
State ID
Well ID MW-1
Date 11/19/15

Site Name Franklinton Dump
Well Depth 34'
Depth to Water TOC 19.44'
Well Diameter 2"
Casing Material
Screen Length 24'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at
Weather Conditions Rainy Cloudy, low 70's
Notes (eg. odor or color)
purge start @ 1040, turbidity would not go down.

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1045	19.01'	—	1.46	16.21	0.231	6.75	-48.3	77.0
1049	18.97'	—	1.68	16.33	0.218	6.30	-26.9	53.6
1055	18.96'	0.25	1.90	16.46	0.199	6.12	-24.8	43.8
1059	18.98'	—	1.46	16.79	0.171	5.95	-12.8	58.1
1165	19.01'	—	1.44	16.78	0.169	5.95	-16.1	37.6
1108	19.00'	0.5	1.37	16.71	0.168	5.94	-19.4	25.7
1115	18.98'	—	1.34	16.72	0.154	5.90	-19.9	36.2
1117	18.99'	—	1.36	16.70	0.153	5.93	-20.3	50.1
1120	18.99'	0.75	1.36	16.70	0.150	5.94	-20.7	20.9

Other Parameters NA
Sampled at 1120
Parameters taken with YSI Pro
Samples delivered to ESC
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number 02100001.30
State ID
Well ID MW-2B
Date 11/19/15

Site Name Franklinton Dump
Well Depth 26'
Depth to Water N/A
Well Diameter 2
Casing Material
Screen Length 16'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at
Weather Conditions Rain, Cloudy, Mid 70's
Notes (eg. odor or color) DRY

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
		DRY						

Other Parameters NA
Sampled at NA
Parameters taken with YSI Pro
Samples delivered to ESC
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408		gallons
2" well	[well depth-depth to water]	* 0.163		gallons
4" well	[well depth-depth to water]	* 0.653		gallons

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Job Number 02100001.30

State ID

Well ID MW-3

Date 11/19/15

Groundwater Sampling Form

Site Name Franklinton Dump

Well Depth 30'

Depth to Water 31.81'(TOC)

Well Diameter 2"

Casing Material

Screen Length 20'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at

Weather Conditions

Notes (eg. odor or color)

Hand Bailer, 28.81' BLS (WL),

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)

Other Parameters NA

Sampled at 1537

Parameters taken with YSI Pro

Samples delivered to ESC

by Fed Ex

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408		gallons
2" well	[well depth-depth to water]	* 0.163		gallons
4" well	[well depth-depth to water]	* 0.653		gallons

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Groundwater Sampling Form

Job Number 0710000.30
State ID
Well ID MW-5
Date 11/19/15
Well Diameter 2"
Well Water Volume

Site Name Franklinton Dump
Well Depth 31
Depth to Water 30.40
Casing Material PVC
Screen Length 10'
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1335		–	6.00	19.6	128	6.29	258	25.6
1338		–	6.15	19.3	123	5.69	263	19.6
1341		0.25	5.01	19.3	123	5.55	265	15.1
1344		–	5.17	19.5	127	5.50	268	14.4
1347		–	5.08	19.3	127	5.49	269	10.1
1350		0.5	5.03	19.3	126	5.44	268	8.5

Other Parameters NA
Sampled at 1355
Parameters taken with YSI Pro
Samples delivered to ESC
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408		gallons
2" well	[well depth-depth to water]	* 0.163		gallons
4" well	[well depth-depth to water]	* 0.653		gallons

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Groundwater Sampling Form

Job Number _____
State ID _____
Well ID MW-6
Date 11/19/15

Site Name Franklinton
Well Depth 32'
Depth to Water 29.19
Well Diameter 2"
Casing Material PVC
Screen Length 10'
Well Water Volume _____
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at 30'
Weather Conditions _____
Notes (eg. odor or color) well went dry collected SVOCs & unpres 250 ml plastic with bailer

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1248		—	4.14	20.2	716	6.15	256	59
1251		—	1.95	20.0	712	6.31	249	34.4
1254		0.25	1.97	20.1	648	6.28	263	28.0
1257		—	2.09	20.1	6.26	6.26	255	29.9
1300		—	2.07	19.2	679	6.27	260	17.6
1303		0.5	2.09	19.0	670	6.09	267	17.4
1306		—	2.07	19.0	670	6.05	269	17.8
1309		—	2.05	19.0	668	6.08	268	17.3

Other Parameters NA
Sampled at 1305
Parameters taken with YSI Pro
Samples delivered to ESC
by Fed Ex
at _____

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	_____ gallons
2" well	[well depth-depth to water]	* 0.163	_____ gallons
4" well	[well depth-depth to water]	* 0.653	_____ gallons

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Groundwater Sampling Form

Job Number 02100001.30
State ID
Well ID MW-1
Date 11/18/15

Site Name Franklinton Dump
Well Depth 34.5'
Depth to Water 35.50' (TOC)
Well Diameter 2'
Casing Material
Screen Length 24.5'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at
Weather Conditions
Notes (eg. odor or color)

Hand Bailer, high turbidity, WL=32.5' @ Land Surface

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)

Other Parameters NA
Sampled at 1255
Parameters taken with YSI Pro
Samples delivered to ESC
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons	
2" well	[well depth-depth to water]	* 0.163	.326 gallons	x3 = 0.978
4" well	[well depth-depth to water]	* 0.653	gallons	

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Job Number _____

State ID _____

Well ID MW-8

Date _____

Groundwater Sampling Form

Site Name Franklinton Dump

Well Depth 30'

Depth to Water 27.42

Well Diameter _____

Casing Material _____

Screen Length 10'

Well Water Volume _____

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at _____

Weather Conditions _____

Notes (eg. odor or color) _____

DUP-GW @ 1400

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1129		-	6.56	18.7	187	6.35	231	5.3
1132		-	5.32	18.6	187	6.16	239	4.3
1135		0.25	5.33	18.5	189	5.98	247	2.1
1138		-	5.33	18.7	176	5.93	251	1.1
1141		-	5.17	18.7	170	5.92	252	3.1
1144		0.5	5.04	18.7	169	5.89	254	2.9
1147		-	5.10	18.7	168	5.87	258	1.8

Other Parameters NA

Sampled at 1145 Parameters taken with YSI Pro

Samples delivered to ESC by Fed Ex at _____

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	_____	gallons
2" well	[well depth-depth to water]	* 0.163	_____	gallons
4" well	[well depth-depth to water]	* 0.653	_____	gallons

WITHERS & RAVENEL

ENGINEERS | PLANNERS | SURVEYORS

Page _____ of _____

Groundwater Sampling Form

Job Number _____
State ID _____
Well ID MW-9
Date _____

Site Name Franklinton Dump
Well Depth 25'
Depth to Water 22.68
Well Diameter _____
Casing Material _____
Screen Length 10'
Well Water Volume _____
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at 24'
Weather Conditions _____
Notes (eg. odor or color) _____

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1046		–	4.64	17.6	538	4.73	234	3.5
1049		–	4.38	17.9	540	5.75	245	5.4
1052		0.25	4.25	17.9	542	5.88	248	0.86
1055		–	4.28	17.9	543	5.95	251	1.83
1058		–	4.26	17.8	542	6.01	253	0.96
1101		0.5	4.27	17.8	541	6.03	252	0.78

Other Parameters Sampled at NA
Parameters taken with YSI Pro
Samples delivered to ESC
by Fed Ex
at _____

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	_____ gallons
2" well	[well depth-depth to water]	* 0.163	_____ gallons
4" well	[well depth-depth to water]	* 0.653	_____ gallons

Location Franklinton Date 10/26/15
Project / Client Franklinton Dump

0730-1030 mob CFAy

cloudy mid 50's

1030 onsite, mark sampling locations take pictures

1100 SAEDACCO called & stated they would be onsite @ 1230

1230 SAEDACCO onsite
warm up TVA - 1000
S# 1115247898
IsoButylene 100 ppm cal gas ex 7/22/17
methane 100 ppm cal gas ex 10/21/18

1300 cal TVA

1310 called M Brown, informed him the temp wells were still in the ground, he said he would call the state

Location Franklinton NC Date 10/26/15
Project / Client Franklinton Dump

1330 M Brown calls & states if we do not encounter waste then we do not need to convert the wells into type "III"'s

1330 setup on row 23 using 4'1/4" HSA

		FID	PID
0-7	Orange sandy silty CLAY,	5 0	23.1
moderate plasticity, moist, firm		10 0	28.3
<5% sand coarse-med grains		15 0	29.1
moist		20 0	31.2
7-31	Brown sandy SILT, dry,	25 0	34.1
<5% sand coarse-med grains		30 1.81	33.1
low plasticity soft			

refusal @ 31'
0-21 2" PVC riser
21-31 2" PVC screen
0-17 Grout
17-19 Bentonite
19-31 #2 sand

Location Franklinton Date 10/26/15

Project / Client Franklinton Dump

1500 setup on MW-2B

		FID	PID
0-27 Brown sandy SILT	5	0	51.1
30% sand med grains, dry, no	10	0	52.3
plasticity	15	0.27	55.1
	20	0	52.1
refusal @ 27'	25	0	55.5

1530 Bump check TVA

MW-2B well construction

0-17 2" PVC riser

17-27 2" PVC screen

0-13 Grout

13-15 Bentonite

15-27 #2 Sand

1730 leave site

1730-1800 mob

Location Franklinton NC Date 10/27/15

Project / Client Franklinton Dump

0630-0700 mob CFAY

SAEDACCO

50's rain

calibrate TVA

0730 setup on MW-1

		FID	PID
0-10 Orange silty sandy	5	0	25.7
CLAY, dry, moderate plasticity,	10	0	30.1
firm, 40% sandy med-coarse	15	0	28.3
grains			

10-17 PWR ~~Biotite Gneiss~~ Granodiorite

rock chips

17' Rocked out

17-34 Granodiorite fractures ~~Granite~~

30'-31' Below ground surface

Location Franklinton NC Date 10/27/15

Project / Client Franklinton Dump

0900 core barrel is stuck in hole

1000 core barrel is out, ~~rods are~~ ~~stuck~~ drillers cannot break rods

1100 dismantled the rods

1115 SAEDACCO Breaks for lunch

develop MW-3 & MW-2B

1148 SAEDACCO onsite

Drilling ~~22~~ from 22'

~~1300~~ 1400 reached 25', pulling core barrel, ~~and~~ drillers cannot break rods

1500 discussing options

Location Franklinton NC Date 10/27/15

Project / Client Franklinton Dump

1630 drillers are going to get a torch to heat the rods ~~to~~

leave site

1630-1700 mob

10/28/15

0630-70~~0~~ mob onsite

continue drilling on MW-1 from 22'

1030 Driller leave to locate a hydrant adaptor & wrench

1200 m Fekete onsite/collect soil/gas samples

1400 Drillers onsite start drilling

1600 m Fekete offsite

1730 reach 34', pump out MW-1

~~1~~830 WL @ 17.5' B TOC

Location Franklinton NC Date 10/28/15

Project / Client Franklinton Dump

1830 leave site

1830 - 1900 mob

10/29/15

0630 - 0700 mob

H2 in MW-1 18.5

pump on well, 3 gall purged well is dry

wait 5 min, pump 1 gall, well is dry

wait 10 min, Pump 1.5 gal, well is dry

MW-1 well construction

0 - ~~18~~ 24 2" PVC Riser

24-34 2" PVC Screen

0 - 16 ~~#2 Sand~~ grout

16-18 Bentonite

18-34 #2 sand

Location Franklinton NC Date 10/29/15

Project / Client Franklinton Dump

0930 set up on MW-7

FID PID

0 - Tan sandy SILT, firm, dry, no plasticity (PWR @ 4'-6' BGS)

Location Franklinton NC Date 10/29/15

Project / Client Franklinton Dump

1030 stop drilling - gear oil is leaking from head

1500 mechanic onsite, does not have right part, they will fix rig tonight

1530 leave site

1530-1600 mob

10/30/15

0630 - 0700 mob

drill rig is fixed, try to finish MW-7

0830 gear box is leaking again, shut down, email M. Brown

trying to work out schedule with SAEDACCO

Location Franklinton NC Date 10/30/15

Project / Client Franklinton Dump

1000 Chris Bryant calls, decides to have Quantex come out & finish drilling

start cover sampling

1015 calibrate TVA

SB-24

0-1 Dark brown fn sandy CLAY glass & metal present @ 0-6"

no sample collected

	PID	FID
6"	2.98	3.40

SB-28

0-1 Dark Brown fn sandy CLAY

1-3 Orange sandy CLAY, moist, low plasticity med-coarse sand 30% (waste @ 2.5' metal & glass)

	FID	PID	
6"	8.99	18.70	SB-28-0.5'
18"	4.40	1.45	SB-28-1.5'

Location Franklinton NC Date 10/30/15

Project / Client Franklinton Dump

SB-25

0-1 Black sandy CLAY, moist, soft, low plasticity

glass & metal present from 0-1'

no sample

	PID	FID
6"	1.03	2.85

SB-21

0-1 Black sandy CLAY

glass, metal, plastic present 0-1'

no sample

	PID	FID
6"	3.08	2.81

SB-26

0-1 Black sandy CLAY

glass, plastic, metal present 0-1'

no sample

	FID	
6"	6.05	30.10

Location Franklinton NC Date 10/30/15

Project / Client Franklinton Dump

SB-22

0-0.5 Black sandy CLAY

0.5-1 Black sandy CLAY, metal glass brick present

	FID	PID
0-0.5'	2.43	9.88

SB-23

0-0.5 Black sandy CLAY

0.5-3.0 Orange sandy CLAY, moderate plasticity firm, moist, coarse-med sand 30%, PVC present, diorite, waste present 3.0'

	FID	PID	
6".5'	2.98	7.20	SB-23-0.5'
1.5'	2.32	5.16	SB-23-1.5'

Location Franklinton NC Date 10/30/15

Project / Client Franklinton Dump

SB-27

0-1 Black sandy CLAY

metal 0-1

no sample

	FID	PID
0.5	10.31	20.16

1300 leave site

Mike Fekete & Drillers remain onsite to finish loading & moving

Location Franklinton NC Date 11/12/15

Project / Client Franklinton Dump.

C. FAY

Quantex

Franklinton NC

Mostly Sunny Lt S wind

0530 0830 mob

0830 Quantex onsite

0900 set up on MW-8

		FID	PID
0-0.5' Orange & sandy CLAY, fine-med sand 30%, soft, moist, moderate plasticity	4'	1.26	0

0.5'-4' PWR, plag & biotite present

4' BGS switch to air

4-9 PWR

10 competent rock

fracture @ 12' still dry

17-20 heavily weathered

27-28.5 fracture - water bearing

Location Franklinton NC Date 11/12/15

Project / Client Franklinton Dump

MW-8 well construction
0-20 PVC riser 2"
20-30 PVC 10 slot screen 2"
0-16 Grout
16-18 Bentonite
18-30 # Sand pack

1100 MW-9

0-2' Orangish brown silty sandy CLAY, moist, moderate ~~plastic~~ plasticity, fine-med sand ≈30% gradational changes to SILT ~~micaceous~~ clays

	FID	PID
4'	1.52	0
9	0	0
14	0.5	1.6
19	1.0	0.21
24'	0.8	1.20

1120 calibrate TVA with Isobutylene
100 ppm cal gas Lot # 14-4896
ex date 7/22/14

Location Franklinton NC Date 11/12/15

Project / Client Franklinton Dump

MW-9 well construction
0-15 2" PVC casing
15-25' PVC 10 slot screen
0-11 Grout
11-13 Bentonite
13-25 #2 Sand Pack

1145 develop MW-8, purged 10 gals with a bailer, 5 gals water is clear

1230 develop MW-9, purged 10 gals with a bailer, 10 gals water is turbid

1330 set up on MW-5

Location Franklinton NC Date 11/12/15

Project / Client Franklinton Dump

MW-5

	FID	PID
0-13 orange silty sandy	5 0	14.2
CLAY, soft, dry, moderate	10 0	27.7
plasticity, fn-coarse sand	15 0.24	34.1
≈ 30%	20 3.16	60.1
	25 2.42	104
13-31 Tan sandy SILT	30 1.96	100
no plasticity, firm, dry		
med-coarse sand 40%		

31' refusal out

MW-5 well construction

0-21 2" PVC riser
21-31 2" PVC 10 slot screen
0-17 grout
17-19 Bentonite
19-31 #2 sand pack

Location Franklinton NC Date 11/12/15

Project / Client Franklinton Dump

1130 Bail 5 gallons from MW-8
water is clear

1500 Bail 15 gallons from MW-9
water is slightly turbid

issue leave site

1530-1600 mob

11/13/15

0630-0700 mob

Develop MW-5 purge 10 gallons
water slightly turbid

Develop MW-9 purge 10 gallons
water slightly turbid

0900 start drilling MW-7

1000 Calibrate PVA

Location Franklinton NC Date 11/13/15

Project / Client Franklinton Dump

		FID	PID
0-34.5 Gray & Brown silty			
SAND, firm, poorly sorted,	5	2.59	25.0
fine - coarse grains, moist	10	1.60	22.9
	15	1.20	25.3
well construction	20	1.37	23.3
0-24 2" PVC riser	25	0	25.0
24-34 2" PVC screen	30	0.63	19.5
0-20 Grout	34	4.16	28.3
20-22 Bentonite			
22-34 #2 sand pack			
1400 leave site			

The manufacturers of "Rite in the Rain" all-weather writing products are grateful to the numerous environmental experts who have contributed to the development of this book. Should you have any additions, improvements or corrections for future publications of this field book or have suggestions for other environmental field book formats, we welcome your input.

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Common Field Data Error Codes

Error codes are used to explain common mistakes and are written above or close to the mistake. Commonly used error codes include:

- RE Recording Error
- CE Calculation Error
- TE Transcription Error
- SE Spelling Error
- CL Changed for Clarity
- DC Original Sample Description Changed After Further Evaluation
- WO Write Over
- NI Not Initialed and Dated at Time of Entry
- OB Not Recorded at the Time of Initial Observation

Note: Error code should be circled, dated, and initialed when recorded.

Hazard Classifications

Class 1 Explosives
Class 2 Gas
Class 3 Flammable Liquid
Class 4 Flammable Solids (Potential spontaneous combustion, or emission of flammable gases when in contact with water)
Class 5 Oxidizing Substances and Organic Peroxides
Class 6 Toxic (poisonous) and infectious substances
Class 7 Radioactive material
Class 8 Corrosives
Class 9 Miscellaneous dangerous goods

Container type abbreviations (for sampling guidelines)

BR - Boston Round • ABR - Amber Boston Round • AJ - Amber Jug • AWM - Amber Wide Mouth • Poly - Polyethylene Bottles • BOD - Bottle • CWM - Clear Wide Mouth

APPENDIX B

BORING LOGS

WITHERS & RAVENEL

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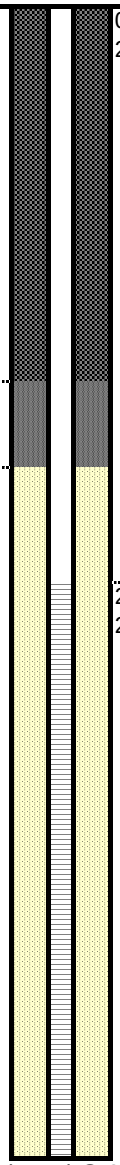
WELL CONSTRUCTION LOG

Well ID	MW-1	**Job Name**	Franklinton Dump	**Job #**	2100001.30
Date	October 27, 2015	**Site Loc.**	Franklinton, NC	**TOC EL**	Not Surveyed
W&R Rep	Chris Fay	**Driller**	SAEDACCO	**GW EL**	Not Surveyed
	NC NAD83 Latitude:	36.089558		**NC NAD83 Longitude:**	-78.464436

Depth in Feet			VOC's (ppm)		Soil Description (Field USCS Classification)
Horizon	From	To	PID	FID	
0					
2					Orange sandy silty CLAY (CL), dry, firm, moderate plasticity, medium to coarse sand grains 40%
4					
6	5.0	5.5	25.70	ND	
8					
10	10.0	10.5	30	ND	
12					PWR-Granodiorote
14					
16	15.0	15.5	28.30	ND	
18					
20					Rock-Granodiorite, fractures at 30'-31' BLS
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					

Well Construction

Notes	Ground Surface	Notes



0-20.0 ft Grout

0-24.0 ft
2" PVC Casing

20.0-22.0 ft Bentonite

22.0-34.0 ft Sand

24.0-34.0 ft
2" 10-Slot Well Screen

Boring Terminated @ 34.0' BLS

Well was bored using 4.25" HAS to a depth of 17' BLS and cored from 17' to 34' BLS

Notes:
1) BLS = Below land surface
2) ND=No response

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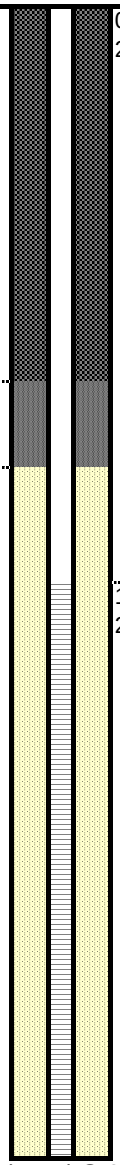
WELL CONSTRUCTION LOG

Well ID	MW-2B	**Job Name**	Franklinton Dump	**Job #**	2100001.30
Date	October 27, 2015	**Site Loc.**	Franklinton, NC	**TOC EL**	Not Surveyed
W&R Rep	Chris Fay	**Driller**	SAEDACCO	**GW EL**	Not Surveyed
	NC NAD83 Latitude:	36.089558		**NC NAD83 Longitude:**	-78.464436

Depth in Feet			VOC's (ppm)		Soil Description (Field USCS Classification)
Horizon	From	To	PID	FID	
0					Brown sandy SILT (ML), dry, firm, no plasticity, medium to coarse sand grains 30%
2					
4					
6	5.0	5.5	51.1	ND	
8					
10	10.0	10.5	52.3	ND	
12					
14					
16	15.0	15.5	55.1	0.27	
18					
20	20.0	20.5	52.1	ND	
22					
24					
26	25.0	25.5	55.5	ND	
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					

Well Construction

Notes	Ground Surface	Notes
0-13.0 ft Grout		0-17.0 ft 2" PVC Casing
13.0-15.0 ft Bentonite		
15.0-27.0 ft Sand		17.0-27.0 ft 2" 10-Slot Well Screen



Boring Terminated @ 27.0' BLS

Well was bored using 4.25" HAS. The boring was terminated because of auger refusal

Notes:
1) BLS = Below land surface
2) ND=No response

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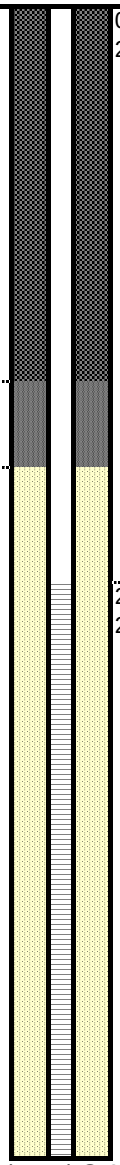
WELL CONSTRUCTION LOG

Well ID	MW-3	**Job Name**	Franklinton Dump	**Job #**	2100001.30
Date	October 26, 2015	**Site Loc.**	Franklinton, NC	**TOC EL**	Not Surveyed
W&R Rep	Chris Fay	**Driller**	SAEDACCO	**GW EL**	Not Surveyed
	NC NAD83 Latitude:	36.089920		**NC NAD83 Longitude:**	-78.464688

Depth in Feet			VOC's (ppm)		Soil Description (Field USCS Classification)
Horizon	From	To	PID	FID	
0					
2					Orange sandy silty CLAY (CL), dry, firm, moderate plasticity, medium to coarse sand grains 40%
4					
	5.0	5.5	23.1	ND	
6					
8					Brown sandy SILT (ML), dry, firm, no plasticity, medium to coarse sand grains 30%
10	10.0	10.5	28.3	ND	
12					
14					
	15.0	15.5	29.1	ND	
16					
18					
20	20.0	20.5	31.2	ND	
22					
24					
	25.0	25.5	34.1	ND	
26					
28					
30	30.0	30.5	33.1	1.8	
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					

Well Construction

Notes	Ground Surface	Notes
0-17.0 ft Grout		0-21.0 ft 2" PVC Casing
17.0-19.0 ft Bentonite		
19.0-31.0 ft Sand		
		21.0-31.0 ft 2" 10-Slot Well Screen



Boring Terminated @ 31.0' BLS

Well was bored using 4.25" HAS. The boring was terminated because of auger refusal

Notes:
1) BLS = Below land surface
2) ND=No response

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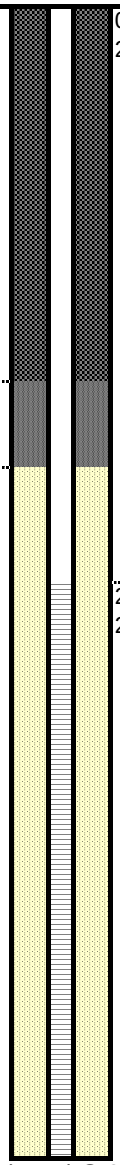
WELL CONSTRUCTION LOG

Well ID	MW-5	**Job Name**	Franklinton Dump	**Job #**	2100001.30
Date	November 12, 2015	**Site Loc.**	Franklinton, NC	**TOC EL**	Not Surveyed
W&R Rep	Chris Fay	**Driller**	SAEDACCO	**GW EL**	Not Surveyed
	NC NAD83 Latitude:	36.089920		**NC NAD83 Longitude:**	-78.464688

Depth in Feet			VOC's (ppm)		Soil Description (Field USCS Classification)
Horizon	From	To	PID	FID	
0					
2					Orange sandy silty CLAY (CL), dry, firm, moderate plasticity, medium to coarse sand grains 30%
4					
	5.0	5.5	14.2	ND	
6					
8					
10	10.0	10.5	27.7	ND	
12					
14					Tan sandy SILT (ML), dry, firm, no plasticity, medium to coarse sand grains 40%
	15.0	15.5	34.1	0.24	
16					
18					
20	20.0	20.5	60.1	3.2	
22					
24					
	25.0	25.5	104.0	3.4	
26					
28					
30	30.0	30.5	100.0	2.0	
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					

Well Construction

Notes	Ground Surface	Notes
0-17.0 ft Grout		0-21.0 ft 2" PVC Casing
17.0-19.0 ft Bentonite		
19.0-31.0 ft Sand		21.0-31.0 ft 2" 10-Slot Well Screen



Boring Terminated @ 31.0' BLS

Well was bored using 4.25" HAS. The boring was terminated because of auger refusal

Notes:
1) BLS = Below land surface
2) ND=No response

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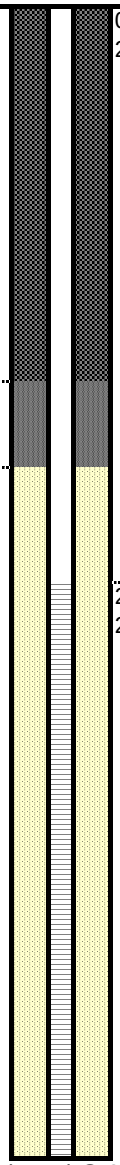
WELL CONSTRUCTION LOG

Well ID	MW-7	**Job Name**	Franklinton Dump	**Job #**	2100001.30
Date	November 13, 2015	**Site Loc.**	Franklinton, NC	**TOC EL**	Not Surveyed
W&R Rep	Chris Fay	**Driller**	SAEDACCO	**GW EL**	Not Surveyed
	NC NAD83 Latitude:	36.089120		**NC NAD83 Longitude:**	-78.463937

Depth in Feet			VOC's (ppm)		Soil Description (Field USCS Classification)
Horizon	From	To	PID	FID	
0					
2					
4					
6	5.0	5.5	25.0	2.6	
8					
10	10.0	10.5	22.9	1.6	
12					
14					
16	15.0	15.5	25.3	1.2	Gray and brown silty SAND (SM): firm, poorly sorted, fine to coarse angular grains, moist, wet at 30' BLS
18					
20	20.0	20.5	23.3	1.4	
22					
24					
26	25.0	25.5	25.6	ND	
28					
30	30.0	30.5	18.5	0.6	
32					
34	34.0	34.0	28.3	4.2	
36					
38					
40					
42					
44					
46					
48					
50					

Well Construction

Notes	Ground Surface	Notes
0-20.0 ft Grout	0-24.0 ft 2" PVC Casing	
20.0-22.0 ft Bentonite		
22.0-34.0 ft Sand		24.0-34.0 ft 2" 10-Slot Well Screen



Boring Terminated @ 34.0' BLS

Well was bored using 4.25" HAS.

Notes:
1) BLS = Below land surface
2) ND=No response

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WELL CONSTRUCTION LOG

Well ID	MW-8	**Job Name**	Franklinton Dump	**Job #**	2100001.30
Date	November 12, 2015	**Site Loc.**	Franklinton, NC	**TOC EL**	Not Surveyed
W&R Rep	Chris Fay	**Driller**	SAEDACCO	**GW EL**	Not Surveyed
	NC NAD83 Latitude:	36.088869		**NC NAD83 Longitude:**	-78.464690

Depth in Feet			VOC's (ppm)		Soil Description
Horizon	**From**	**To**	**PID**	**FID**	**(Field USCS Classification)**
0					
2					Orange sandy silty CLAY (CL)
4	4.0	4.5	ND	1.26	PWR-Granodiorote
6					
8					
10					
12					
14					
16					Rock-heavily weathered from 17' to 20' BLS, fractures at 12' and 27 to 28.5' BLS
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					

Well Construction

Notes	Ground Surface	Notes
0-14.5 ft Grout	0-18.5 ft 2" PVC Casing	
14.5-16.5 ft Bentonite		
16.5-28.5 ft Sand		
	18.5-28.5 ft 2" 10-Slot Well Screen	
	Boring Terminated @ 28.5' BLS	
Well was bored using 4.25" HAS to a depth of 4' BLS and air hammered from 4' to 28.5' BLS		

Notes:
1) BLS = Below land surface
2) ND=No response

115 MacKenan Drive Cary, North Carolina 27511 tel:919.469.3340 fax:919.467.6008 www.withersravenel.com

WITHERS & RAVENEL

ENGINEERS | PLANNERS | SURVEYORS

WELL CONSTRUCTION LOG

Well ID	MW-9	**Job Name**	Franklinton Dump	**Job #**	2100001.30
Date	November 12, 2015	**Site Loc.**	Franklinton, NC	**TOC EL**	Not Surveyed
W&R Rep	Chris Fay	**Driller**	SAEDACCO	**GW EL**	Not Surveyed
	NC NAD83 Latitude:	36.088637		**NC NAD83 Longitude:**	-78.464229

Depth in Feet			VOC's (ppm)		Soil Description (Field USCS Classification)
Horizon	From	To	PID	FID	
0					
2					
4	4.0	4.5	ND	1.5	
6					
8					
	9.0	9.5	ND	ND	
10					
12					Orangish brown sandy silty CLAY (CL), dry, firm, moderate plasticity, medium to coarse sand grains 30%, micaceous, gradational change to silt
14	14.0	14.5	0.5	0.5	
16					
18					
	19.0	19.5	1.0	1.0	
20					
22					
24	24.0	24.5	1.2	0.8	
26					
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					

Well Construction

Notes	Ground Surface	Notes
0-13.0 ft Grout		0-17.0 ft 2" PVC Casing
13.0-15.0 ft Bentonite		
15.0-27.0 ft Sand		17.0-27.0 ft 2" 10-Slot Well Screen

Boring Terminated @ 27.0' BLS

Well was bored using 4.25" HAS.

Notes:
1) BLS = Below land surface
2) ND=No response

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APPENDIX C

WELL CONSTRUCTION RECORDS

10790

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Stefan Smith
Well Contractor Name

3576A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 10-26-15 **Well ID#** MW3

5a. Well Location:

State of North Carolina
Facility/Owner Name

Facility ID# (if applicable)

45 Parkers Way, Franklinton, NC, 27525
Physical Address, City, and Zip

USA
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 30 (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 28 (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8 (in.)

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	20 ft.	2 in.	40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
20 ft.	30 ft.	2 in.	010	40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	16 ft.	Portland/bentonite	
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	30 ft.	Sand	2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	22 ft.	Silt
22 ft.	30 ft.	PWR
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

2 foot bentonite seal from 16 to 18 feet

22. Certification:

Stefan J. Smith
Signature of Certified Well Contractor

11/4/2015
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. **For All Wells:** Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. **For Injection Wells ONLY:** In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. **For Water Supply & Injection Wells:**
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Stefan Smith
Well Contractor Name

3576A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 10-26-15 **Well ID#** MW2B

5a. Well Location:

State of North Carolina
Facility/Owner Name

Facility ID# (if applicable)

45 Parkers Way, Franklinton, NC, 27525
Physical Address, City, and Zip

USA
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is (are) the well(s): ☒ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☒ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 26 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 25 **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	16 ft.	2 in.	40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
16 ft.	26 ft.	2 in.	010	40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	12 ft.	Portland/bentonite	
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
14 ft.	26 ft.	Sand	2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	22 ft.	Silt
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Stefan J. Smith
Signature of Certified Well Contractor

11/4/2015
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. **For All Wells:** Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. **For Injection Wells ONLY:** In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. **For Water Supply & Injection Wells:**
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Stefan Smith
Well Contractor Name

3576A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 10-28-15 **Well ID#** MW1

5a. Well Location:

State of North Carolina
Facility/Owner Name

Facility ID# (if applicable)

45 Parkers Way, Franklinton, NC, 27525
Physical Address, City, and Zip

USA
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 34 (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 30 (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8/4 (in.)

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	24 ft.	2 in.	40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
24 ft.	34 ft.	2 in.	010	40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	14 ft.	Portland/bentonite	
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	34 ft.	Sand	2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	18 ft.	Silt
18 ft.	34 ft.	Rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

Cored rock from 18 to 34 feet and installed well w

22. Certification:

Stefan J. Smith
Signature of Certified Well Contractor

11/4/2015
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. **For All Wells:** Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. **For Injection Wells ONLY:** In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. **For Water Supply & Injection Wells:**
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX D

SUMMARY OF GPS DATA

Appendix D
Summary of GPS Data
Franklinton Dump-NONCD0000310
Franklinton, Franklin County, NC

Location Identification	Latitude (feet)	Longitude (feet)
Soil Cover Sampling Location		
SB-21	36.089611	-78.464639
SB-22	36.089372	-78.464606
SB-23	36.089083	-78.464651
SB-24	36.089904	-78.464291
SB-25	36.089597	-78.464299
SB-26	36.089314	-78.464245
SB-27	36.088822	-78.464337
SB-28	36.089915	-78.463986
Sediment and Surface Water Sampling Locations		
SD-1/SW-1	36.0898242	-78.4636407
SD-2/SW-2	36.0894040	-78.4643702
Groundwater Monitoring Wells		
MW-1	36.08956	-78.46378
MW-2B	36.09007	-78.46430
MW-3	36.08992	-78.46469
MW-5	36.08935	-78.46471
MW-6	36.08931	-78.46444
MW-7	36.08912	-78.46394
MW-8	36.08887	-78.46469
MW-9	36.08864	-78.46423

APPENDIX E

LABORATORY REPORT

Laboratory Report – QA/QC Data Review

Project Name:	Franklinton Dump NONCD0000310 – Task Order 310DP-7
Project Number:	02100001.30
Laboratory Name:	ESC Laboratories
Laboratory Report Number and Date(s):	**L79680** dated 11/11/2015
Laboratory Sample IDs:	L797680-01, L797680-02, L797680-03, L797680-04, L797680-05, L797680-06, L797680-07, L797680-08, L797680-09, L797680-10, L797680-11, L797680-12, and L797680-13
Media Subjected to Analyses (preceded by sampling date):	(10/28/15) 2 Sediment Samples, 1 Duplicate (10/28/15) 2 Surface Water Samples, 1 Duplicate (10/28/15) 1 Trip Blank

QA/QC Checklist:

1. Samples Analyzed Outside of Holding Time? (y/n) – If yes identify sample.	No.
2. Samples Preserved Per Method Requirements? (y/n) – If no identify sample.	Yes.
3. Samples Received at or Below 4º C? (y/n)	Yes.
4. Did Blanks Contain Analytes Identified in Sample Media (B-Flags)? (y/n) – If yes identify sample.	No.
5. Were matrix – spike duplicates included in analyses? (y/n)	Yes.
6. Did the laboratory report any analyses as "rejected"? (y/n) - If yes identify sample.	No.
7. Did the laboratory provide explanation of any technical issues regarding the analyses of a samples(s) on the laboratory report? (y/n) – If yes summarize.	Yes, the laboratory reported the following issues: **L797680-11 Original Sample-Duplicate** for total solids (J3) The associated batch QC was outside the established quality control range for precision. **L797416-01 Original Sample-Duplicate** for ammonia nitrogen (P1) RPD value not applicable for sample concentrations less than 5 times the reporting limit. **L797498-01 Original Sample-Matrix Spike-Matrix Spike Duplicate** for manganese (V) The sample concentration is too high to evaluate accurate spike recoveries.

	L797299-06 Original Sample-Matrix Spike, Matrix Duplicate for iron (J6) The sample matrix interfered with the ability to make any accurate determination; spike value is low. (J3) The associated batch QC was outside the established quality control range for precision. (J5) The sample matrix interfered with the ability to make any accurate determination; spike value is high. **Laboratory Control Sample-Laboratory Control Sample Duplicate** for acetone (J3) The associated batch QC was outside the established quality control range for precision. **Laboratory Control Sample-Laboratory Control Sample Duplicate** for bromoform (J4) The associated batch QC was outside the established quality control range for accuracy. **L797711-01 Original Sample-Matrix Spike-Matrix Spike Duplicate** for 2-Chloroethyl vinyl ether (J6) The sample matrix interfered with the ability to make any accurate determination; spike value is low. (J3) The associated batch QC was outside the established quality control range for precision. **L797711-01 Original Sample-Matrix Spike-Matrix Spike Duplicate** for chloromethane, trans-1,2 dichloroethene, and 1,1 dichloropropene (J6) The sample matrix interfered with the ability to make any accurate determination; spike value is low. **Laboratory Control Sample-Laboratory Control Sample Duplicate** for acrylonitrile (J3) The associated batch QC was outside the established quality control range for precision. **L797915-01 Original Sample-Matrix Spike-Matrix Spike Duplicate** for 1,2,4-trimethylbenzene (J5) The sample matrix interfered with the ability to make any accurate determination; spike value is high.

	Laboratory Control Sample-Laboratory Control Sample Duplicate for bis(2-chloroethyl)ether, bis(2-chloroisopropy)ether, hexachloro-1,3-butadiene, hexachloroethane, n-nitrosodimethylamine, 2-chorophenol (J3) The associated batch QC was outside the established quality control range for precision. **L798051-01 Original Sample-Matrix Spike-Matrix Spike Duplicate** for 3,3-dichlorobenzidine (J3) The associated batch QC was outside the established quality control range for precision.
8. Comments:	

Reviewer:	Chris Fay/SMB
Date of Review:	12/18/15
Data Suitable For Intended Use:	Yes

ANALYTICAL REPORT

November 11, 2015

Withers & Ravenel Eng. - Standard

Sample Delivery Group:	L797680
Samples Received:	10/30/2015
Project Number:	02100001.30
Description:	Franklinton Dump
Report To:	Mark Brown 115 MacKenan Drive Cary, NC 27511

Entire Report Reviewed By:

Jimmy Hunt
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SW-22-W L797680-01 GW

Collected by: Mike Fekete | Collected date/time: 10/28/15 13:00 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG825753	1	10/31/15 10:39	11/02/15 12:19	BRJ
Metals (ICPMS) by Method 6020	WG825802	1	11/02/15 23:07	11/03/15 14:52	JD
Metals (ICPMS) by Method 6020	WG825802	5	11/02/15 23:07	11/03/15 15:20	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826577	1	11/04/15 17:07	11/05/15 08:59	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG825775	1	11/01/15 01:27	11/01/15 01:27	ACG
Wet Chemistry by Method 350.1	WG827034	1	11/09/15 09:41	11/09/15 09:41	ASK
Wet Chemistry by Method 9056MOD	WG825669	1	10/30/15 12:57	10/30/15 12:57	NJM

SW-22-W L797680-02 GW

Collected by: Mike Fekete | Collected date/time: 10/28/15 13:00 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826294	1	11/03/15 15:01	11/03/15 15:01	DAH

SW-21-W L797680-03 GW

Collected by: Mike Fekete | Collected date/time: 10/28/15 13:20 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG825753	1	10/31/15 10:39	11/02/15 12:21	BRJ
Metals (ICPMS) by Method 6020	WG825802	1	11/02/15 23:07	11/03/15 14:55	JD
Metals (ICPMS) by Method 6020	WG825802	50	11/02/15 23:07	11/03/15 15:23	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826577	1	11/04/15 17:07	11/05/15 10:45	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG825775	1	11/01/15 01:50	11/01/15 01:50	ACG
Wet Chemistry by Method 350.1	WG827034	1	11/09/15 09:42	11/09/15 09:42	ASK
Wet Chemistry by Method 9056MOD	WG825669	1	10/30/15 13:13	10/30/15 13:13	NJM

SW-21-W L797680-04 GW

Collected by: Mike Fekete | Collected date/time: 10/28/15 13:20 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826294	1	11/03/15 15:25	11/03/15 15:25	DAH

SW-DUP-W L797680-05 GW

Collected by: Mike Fekete | Collected date/time: 10/28/15 13:40 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG825753	1	10/31/15 10:39	11/02/15 12:23	BRJ
Metals (ICPMS) by Method 6020	WG825802	1	11/02/15 23:07	11/03/15 14:57	JD
Metals (ICPMS) by Method 6020	WG825802	10	11/02/15 23:07	11/03/15 15:25	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826577	1	11/04/15 17:07	11/05/15 10:22	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG825775	1	11/01/15 01:13	11/01/15 01:13	ACG
Wet Chemistry by Method 350.1	WG827034	1	11/09/15 09:43	11/09/15 09:43	ASK
Wet Chemistry by Method 9056MOD	WG825669	1	10/30/15 13:28	10/30/15 13:28	NJM

SW-DUP-W L797680-06 GW

Collected by: Mike Fekete | Collected date/time: 10/28/15 13:40 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826294	1	11/03/15 15:49	11/03/15 15:49	DAH

SW-22-S L797680-07 Solid

Collected by: Mike Fekete | Collected date/time: 10/28/15 14:00 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG825751	1	10/31/15 07:28	11/02/15 10:43	BRJ
Metals (ICPMS) by Method 6020	WG826002	5	11/03/15 17:41	11/03/15 21:33	JD
Metals (ICPMS) by Method 6020	WG826002	5	11/03/15 17:41	11/04/15 10:44	JD
Metals (ICPMS) by Method 6020	WG826002	50	11/03/15 17:41	11/04/15 00:40	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	3	11/03/15 08:30	11/04/15 13:16	ADF
Total Solids by Method 2540 G-2011	WG825859	1	10/31/15 12:42	11/02/15 07:46	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826014	1.06	11/02/15 07:47	11/03/15 01:06	JHH
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:12	ASK
Wet Chemistry by Method 9056MOD	WG826096	1	11/04/15 11:29	11/04/15 17:52	DJD

SW-22-S L797680-08 Solid

Collected by: Mike Fekete | Collected date/time: 10/28/15 14:00 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG825859	1	10/31/15 12:42	11/02/15 07:46	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 11:25	ACG

SW-DUP-S L797680-09 Solid

Collected by: Mike Fekete | Collected date/time: 10/28/15 14:20 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG825751	1	10/31/15 07:28	11/02/15 10:46	BRJ
Metals (ICPMS) by Method 6020	WG826002	5	11/03/15 17:41	11/03/15 21:35	JD
Metals (ICPMS) by Method 6020	WG826002	5	11/03/15 17:41	11/04/15 10:46	JD
Metals (ICPMS) by Method 6020	WG826002	50	11/03/15 17:41	11/04/15 00:43	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	3	11/03/15 08:30	11/04/15 13:40	ADF
Total Solids by Method 2540 G-2011	WG825859	1	10/31/15 12:42	11/02/15 07:46	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826014	1.25	11/02/15 07:47	11/03/15 01:27	JHH
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:14	ASK
Wet Chemistry by Method 9056MOD	WG826096	1	11/04/15 11:29	11/04/15 18:16	DJD

SW-DUP-S L797680-10 Solid

Collected by: Mike Fekete | Collected date/time: 10/28/15 14:20 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG825859	1	10/31/15 12:42	11/02/15 07:46	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 11:44	ACG

SW-21-S L797680-11 Solid

Collected by: Mike Fekete | Collected date/time: 10/28/15 14:40 | Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG825751	1	10/31/15 07:28	11/02/15 10:49	BRJ
Metals (ICPMS) by Method 6020	WG826002	5	11/03/15 17:41	11/03/15 21:37	JD
Metals (ICPMS) by Method 6020	WG826002	5	11/03/15 17:41	11/04/15 10:49	JD
Metals (ICPMS) by Method 6020	WG826002	50	11/03/15 17:41	11/04/15 00:45	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	3	11/03/15 08:30	11/04/15 14:04	ADF
Total Solids by Method 2540 G-2011	WG826058	1	11/02/15 09:27	11/04/15 07:26	MEL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826014	1.11	11/02/15 07:47	11/03/15 01:47	JHH
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:15	ASK
Wet Chemistry by Method 9056MOD	WG826096	1	11/04/15 11:29	11/04/15 18:40	DJD

SW-21-S L797680-12 Solid

Collected by: Mike Fekete
Collected date/time: 10/28/15 14:40
Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG826058	1	11/02/15 09:27	11/04/15 07:26	MEL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 12:04	ACG

TRIP BLANK L797680-13 GW

Collected by: Mike Fekete
Collected date/time: 10/28/15 00:00
Received date/time: 10/30/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG825775	1	10/31/15 20:57	10/31/15 20:57	ACG

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jimmy Hunt
Technical Service Representative

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		250	1	11/09/2015 09:41	WG827034

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	ND		100	1	10/30/2015 12:57	WG825669
Sulfate	ND		5000	1	10/30/2015 12:57	WG825669

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/02/2015 12:19	WG825753

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/03/2015 14:52	WG825802
Arsenic	ND		2.00	1	11/03/2015 14:52	WG825802
Beryllium	ND		2.00	1	11/03/2015 14:52	WG825802
Cadmium	ND		1.00	1	11/03/2015 14:52	WG825802
Chromium	ND		2.00	1	11/03/2015 14:52	WG825802
Copper	ND		5.00	1	11/03/2015 14:52	WG825802
Iron	5290		500	5	11/03/2015 15:20	WG825802
Lead	ND		2.00	1	11/03/2015 14:52	WG825802
Manganese	775		25.0	5	11/03/2015 15:20	WG825802
Nickel	2.05		2.00	1	11/03/2015 14:52	WG825802
Selenium	ND		2.00	1	11/03/2015 14:52	WG825802
Silver	ND		2.00	1	11/03/2015 14:52	WG825802
Thallium	ND		2.00	1	11/03/2015 14:52	WG825802
Zinc	27.5		25.0	1	11/03/2015 14:52	WG825802

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J3	50.0	1	11/01/2015 01:27	WG825775
Acrolein	ND		50.0	1	11/01/2015 01:27	WG825775
Acrylonitrile	ND		10.0	1	11/01/2015 01:27	WG825775
Benzene	ND		1.00	1	11/01/2015 01:27	WG825775
Bromobenzene	ND		1.00	1	11/01/2015 01:27	WG825775
Bromodichloromethane	ND		1.00	1	11/01/2015 01:27	WG825775
Bromoform	ND	J4	1.00	1	11/01/2015 01:27	WG825775
Bromomethane	ND		5.00	1	11/01/2015 01:27	WG825775
n-Butylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
sec-Butylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
tert-Butylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
Carbon tetrachloride	ND		1.00	1	11/01/2015 01:27	WG825775
Chlorobenzene	ND		1.00	1	11/01/2015 01:27	WG825775
Chlorodibromomethane	ND		1.00	1	11/01/2015 01:27	WG825775
Chloroethane	ND		5.00	1	11/01/2015 01:27	WG825775
2-Chloroethyl vinyl ether	ND		50.0	1	11/01/2015 01:27	WG825775
Chloroform	ND		5.00	1	11/01/2015 01:27	WG825775
Chloromethane	ND		2.50	1	11/01/2015 01:27	WG825775
2-Chlorotoluene	ND		1.00	1	11/01/2015 01:27	WG825775
4-Chlorotoluene	ND		1.00	1	11/01/2015 01:27	WG825775

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/01/2015 01:27	WG825775
1,2-Dibromoethane	ND		1.00	1	11/01/2015 01:27	WG825775
Dibromomethane	ND		1.00	1	11/01/2015 01:27	WG825775
1,2-Dichlorobenzene	ND		1.00	1	11/01/2015 01:27	WG825775
1,3-Dichlorobenzene	ND		1.00	1	11/01/2015 01:27	WG825775
1,4-Dichlorobenzene	ND		1.00	1	11/01/2015 01:27	WG825775
Dichlorodifluoromethane	ND		5.00	1	11/01/2015 01:27	WG825775
1,1-Dichloroethane	ND		1.00	1	11/01/2015 01:27	WG825775
1,2-Dichloroethane	ND		1.00	1	11/01/2015 01:27	WG825775
1,1-Dichloroethene	ND		1.00	1	11/01/2015 01:27	WG825775
cis-1,2-Dichloroethene	ND		1.00	1	11/01/2015 01:27	WG825775
trans-1,2-Dichloroethene	ND		1.00	1	11/01/2015 01:27	WG825775
1,2-Dichloropropane	ND		1.00	1	11/01/2015 01:27	WG825775
1,1-Dichloropropene	ND		1.00	1	11/01/2015 01:27	WG825775
1,3-Dichloropropane	ND		1.00	1	11/01/2015 01:27	WG825775
cis-1,3-Dichloropropene	ND		1.00	1	11/01/2015 01:27	WG825775
trans-1,3-Dichloropropene	ND		1.00	1	11/01/2015 01:27	WG825775
2,2-Dichloropropane	ND		1.00	1	11/01/2015 01:27	WG825775
Di-isopropyl ether	ND		1.00	1	11/01/2015 01:27	WG825775
Ethylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
Hexachloro-1,3-butadiene	ND		1.00	1	11/01/2015 01:27	WG825775
Isopropylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
p-Isopropyltoluene	1.85		1.00	1	11/01/2015 01:27	WG825775
2-Butanone (MEK)	ND		10.0	1	11/01/2015 01:27	WG825775
Methylene Chloride	ND		5.00	1	11/01/2015 01:27	WG825775
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/01/2015 01:27	WG825775
Methyl tert-butyl ether	ND		1.00	1	11/01/2015 01:27	WG825775
Naphthalene	ND		5.00	1	11/01/2015 01:27	WG825775
n-Propylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
Styrene	ND		1.00	1	11/01/2015 01:27	WG825775
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/01/2015 01:27	WG825775
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/01/2015 01:27	WG825775
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/01/2015 01:27	WG825775
Tetrachloroethene	ND		1.00	1	11/01/2015 01:27	WG825775
Toluene	ND		5.00	1	11/01/2015 01:27	WG825775
1,2,3-Trichlorobenzene	ND		1.00	1	11/01/2015 01:27	WG825775
1,2,4-Trichlorobenzene	ND		1.00	1	11/01/2015 01:27	WG825775
1,1,1-Trichloroethane	ND		1.00	1	11/01/2015 01:27	WG825775
1,1,2-Trichloroethane	ND		1.00	1	11/01/2015 01:27	WG825775
Trichloroethene	ND		1.00	1	11/01/2015 01:27	WG825775
Trichlorofluoromethane	ND		5.00	1	11/01/2015 01:27	WG825775
1,2,3-Trichloropropane	ND		2.50	1	11/01/2015 01:27	WG825775
1,2,4-Trimethylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
1,2,3-Trimethylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
1,3,5-Trimethylbenzene	ND		1.00	1	11/01/2015 01:27	WG825775
Vinyl chloride	ND		1.00	1	11/01/2015 01:27	WG825775
Xylenes, Total	ND		3.00	1	11/01/2015 01:27	WG825775
(S) Toluene-d8	*102*		*90.0-115*		*11/01/2015 01:27*	WG825775
(S) Dibromofluoromethane	*94.2*		*79.0-121*		*11/01/2015 01:27*	WG825775
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*11/01/2015 01:27*	WG825775

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/05/2015 08:59	WG826577
Acenaphthylene	ND		1.00	1	11/05/2015 08:59	WG826577
Anthracene	ND		1.00	1	11/05/2015 08:59	WG826577
Benzidine	ND		10.0	1	11/05/2015 08:59	WG826577
Benzo(a)anthracene	ND		1.00	1	11/05/2015 08:59	WG826577
Benzo(b)fluoranthene	ND		1.00	1	11/05/2015 08:59	WG826577
Benzo(k)fluoranthene	ND		1.00	1	11/05/2015 08:59	WG826577
Benzo(g,h,i)perylene	ND		1.00	1	11/05/2015 08:59	WG826577
Benzo(a)pyrene	ND		1.00	1	11/05/2015 08:59	WG826577
Bis(2-chlorethoxy)methane	ND		10.0	1	11/05/2015 08:59	WG826577
Bis(2-chloroethyl)ether	ND		10.0	1	11/05/2015 08:59	WG826577
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/05/2015 08:59	WG826577
4-Bromophenyl-phenylether	ND		10.0	1	11/05/2015 08:59	WG826577
2-Chloronaphthalene	ND		1.00	1	11/05/2015 08:59	WG826577
4-Chlorophenyl-phenylether	ND		10.0	1	11/05/2015 08:59	WG826577
Chrysene	ND		1.00	1	11/05/2015 08:59	WG826577
Dibenz(a,h)anthracene	ND		1.00	1	11/05/2015 08:59	WG826577
3,3-Dichlorobenzidine	ND		10.0	1	11/05/2015 08:59	WG826577
2,4-Dinitrotoluene	ND		10.0	1	11/05/2015 08:59	WG826577
2,6-Dinitrotoluene	ND		10.0	1	11/05/2015 08:59	WG826577
Fluoranthene	ND		1.00	1	11/05/2015 08:59	WG826577
Fluorene	ND		1.00	1	11/05/2015 08:59	WG826577
Hexachlorobenzene	ND		1.00	1	11/05/2015 08:59	WG826577
Hexachloro-1,3-butadiene	ND		10.0	1	11/05/2015 08:59	WG826577
Hexachlorocyclopentadiene	ND		10.0	1	11/05/2015 08:59	WG826577
Hexachloroethane	ND		10.0	1	11/05/2015 08:59	WG826577
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/05/2015 08:59	WG826577
Isophorone	ND		10.0	1	11/05/2015 08:59	WG826577
Naphthalene	ND		1.00	1	11/05/2015 08:59	WG826577
Nitrobenzene	ND		10.0	1	11/05/2015 08:59	WG826577
n-Nitrosodimethylamine	ND	J	50.0	1	11/05/2015 08:59	WG826577
n-Nitrosodiphenylamine	ND		10.0	1	11/05/2015 08:59	WG826577
n-Nitrosodi-n-propylamine	ND	J	50.0	1	11/05/2015 08:59	WG826577
Phenanthrene	ND		1.00	1	11/05/2015 08:59	WG826577
Benzylbutyl phthalate	ND		3.00	1	11/05/2015 08:59	WG826577
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/05/2015 08:59	WG826577
Di-n-butyl phthalate	ND		3.00	1	11/05/2015 08:59	WG826577
Diethyl phthalate	ND		3.00	1	11/05/2015 08:59	WG826577
Dimethyl phthalate	ND		3.00	1	11/05/2015 08:59	WG826577
Di-n-octyl phthalate	ND		3.00	1	11/05/2015 08:59	WG826577
Pyrene	ND		1.00	1	11/05/2015 08:59	WG826577
1,2,4-Trichlorobenzene	ND		10.0	1	11/05/2015 08:59	WG826577
4-Chloro-3-methylphenol	ND		10.0	1	11/05/2015 08:59	WG826577
2-Chlorophenol	ND		10.0	1	11/05/2015 08:59	WG826577
2,4-Dichlorophenol	ND		10.0	1	11/05/2015 08:59	WG826577
2,4-Dimethylphenol	ND		10.0	1	11/05/2015 08:59	WG826577
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/05/2015 08:59	WG826577
2,4-Dinitrophenol	ND		10.0	1	11/05/2015 08:59	WG826577
2-Nitrophenol	ND		10.0	1	11/05/2015 08:59	WG826577
4-Nitrophenol	ND		10.0	1	11/05/2015 08:59	WG826577
Pentachlorophenol	ND		10.0	1	11/05/2015 08:59	WG826577
Phenol	ND		10.0	1	11/05/2015 08:59	WG826577
2,4,6-Trichlorophenol	ND		10.0	1	11/05/2015 08:59	WG826577
(S) 2-Fluorophenol	*33.6*		*10.0-77.9*		*11/05/2015 08:59*	WG826577
(S) Phenol-d5	*24.2*		*5.00-70.1*		*11/05/2015 08:59*	WG826577
(S) Nitrobenzene-d5	*46.5*		*21.8-123*		*11/05/2015 08:59*	WG826577

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*56.9*		*29.5-131*		*11/05/2015 08:59*	WG826577
(S) 2,4,6-Tribromophenol	*70.8*		*11.2-130*		*11/05/2015 08:59*	WG826577
(S) p-Terphenyl-d14	*72.3*		*29.3-137*		*11/05/2015 08:59*	WG826577

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/03/2015 15:01	WG826294
(S) Toluene-d8	*95.4*		*70.0-130*		*11/03/2015 15:01*	WG826294

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	738		250	1	11/09/2015 09:42	WG827034

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	ND		100	1	10/30/2015 13:13	WG825669
Sulfate	ND		5000	1	10/30/2015 13:13	WG825669

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/02/2015 12:21	WG825753

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/03/2015 14:55	WG825802
Arsenic	5.99		2.00	1	11/03/2015 14:55	WG825802
Beryllium	ND		2.00	1	11/03/2015 14:55	WG825802
Cadmium	ND		1.00	1	11/03/2015 14:55	WG825802
Chromium	ND		2.00	1	11/03/2015 14:55	WG825802
Copper	12.7		5.00	1	11/03/2015 14:55	WG825802
Iron	16200		5000	50	11/03/2015 15:23	WG825802
Lead	6.20		2.00	1	11/03/2015 14:55	WG825802
Manganese	5530		250	50	11/03/2015 15:23	WG825802
Nickel	5.44		2.00	1	11/03/2015 14:55	WG825802
Selenium	ND		2.00	1	11/03/2015 14:55	WG825802
Silver	ND		2.00	1	11/03/2015 14:55	WG825802
Thallium	ND		2.00	1	11/03/2015 14:55	WG825802
Zinc	340		25.0	1	11/03/2015 14:55	WG825802

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J3	50.0	1	11/01/2015 01:50	WG825775
Acrolein	ND		50.0	1	11/01/2015 01:50	WG825775
Acrylonitrile	ND		10.0	1	11/01/2015 01:50	WG825775
Benzene	ND		1.00	1	11/01/2015 01:50	WG825775
Bromobenzene	ND		1.00	1	11/01/2015 01:50	WG825775
Bromodichloromethane	ND		1.00	1	11/01/2015 01:50	WG825775
Bromoform	ND	J4	1.00	1	11/01/2015 01:50	WG825775
Bromomethane	ND		5.00	1	11/01/2015 01:50	WG825775
n-Butylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
sec-Butylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
tert-Butylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
Carbon tetrachloride	ND		1.00	1	11/01/2015 01:50	WG825775
Chlorobenzene	ND		1.00	1	11/01/2015 01:50	WG825775
Chlorodibromomethane	ND		1.00	1	11/01/2015 01:50	WG825775
Chloroethane	ND		5.00	1	11/01/2015 01:50	WG825775
2-Chloroethyl vinyl ether	ND		50.0	1	11/01/2015 01:50	WG825775
Chloroform	ND		5.00	1	11/01/2015 01:50	WG825775
Chloromethane	ND		2.50	1	11/01/2015 01:50	WG825775
2-Chlorotoluene	ND		1.00	1	11/01/2015 01:50	WG825775
4-Chlorotoluene	ND		1.00	1	11/01/2015 01:50	WG825775

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/01/2015 01:50	WG825775
1,2-Dibromoethane	ND		1.00	1	11/01/2015 01:50	WG825775
Dibromomethane	ND		1.00	1	11/01/2015 01:50	WG825775
1,2-Dichlorobenzene	ND		1.00	1	11/01/2015 01:50	WG825775
1,3-Dichlorobenzene	ND		1.00	1	11/01/2015 01:50	WG825775
1,4-Dichlorobenzene	ND		1.00	1	11/01/2015 01:50	WG825775
Dichlorodifluoromethane	ND		5.00	1	11/01/2015 01:50	WG825775
1,1-Dichloroethane	ND		1.00	1	11/01/2015 01:50	WG825775
1,2-Dichloroethane	ND		1.00	1	11/01/2015 01:50	WG825775
1,1-Dichloroethene	ND		1.00	1	11/01/2015 01:50	WG825775
cis-1,2-Dichloroethene	ND		1.00	1	11/01/2015 01:50	WG825775
trans-1,2-Dichloroethene	ND		1.00	1	11/01/2015 01:50	WG825775
1,2-Dichloropropane	ND		1.00	1	11/01/2015 01:50	WG825775
1,1-Dichloropropene	ND		1.00	1	11/01/2015 01:50	WG825775
1,3-Dichloropropane	ND		1.00	1	11/01/2015 01:50	WG825775
cis-1,3-Dichloropropene	ND		1.00	1	11/01/2015 01:50	WG825775
trans-1,3-Dichloropropene	ND		1.00	1	11/01/2015 01:50	WG825775
2,2-Dichloropropane	ND		1.00	1	11/01/2015 01:50	WG825775
Di-isopropyl ether	ND		1.00	1	11/01/2015 01:50	WG825775
Ethylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
Hexachloro-1,3-butadiene	ND		1.00	1	11/01/2015 01:50	WG825775
Isopropylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
p-Isopropyltoluene	1.79		1.00	1	11/01/2015 01:50	WG825775
2-Butanone (MEK)	ND		10.0	1	11/01/2015 01:50	WG825775
Methylene Chloride	ND		5.00	1	11/01/2015 01:50	WG825775
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/01/2015 01:50	WG825775
Methyl tert-butyl ether	ND		1.00	1	11/01/2015 01:50	WG825775
Naphthalene	ND		5.00	1	11/01/2015 01:50	WG825775
n-Propylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
Styrene	ND		1.00	1	11/01/2015 01:50	WG825775
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/01/2015 01:50	WG825775
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/01/2015 01:50	WG825775
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/01/2015 01:50	WG825775
Tetrachloroethene	ND		1.00	1	11/01/2015 01:50	WG825775
Toluene	ND		5.00	1	11/01/2015 01:50	WG825775
1,2,3-Trichlorobenzene	ND		1.00	1	11/01/2015 01:50	WG825775
1,2,4-Trichlorobenzene	ND		1.00	1	11/01/2015 01:50	WG825775
1,1,1-Trichloroethane	ND		1.00	1	11/01/2015 01:50	WG825775
1,1,2-Trichloroethane	ND		1.00	1	11/01/2015 01:50	WG825775
Trichloroethene	ND		1.00	1	11/01/2015 01:50	WG825775
Trichlorofluoromethane	ND		5.00	1	11/01/2015 01:50	WG825775
1,2,3-Trichloropropane	ND		2.50	1	11/01/2015 01:50	WG825775
1,2,4-Trimethylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
1,2,3-Trimethylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
1,3,5-Trimethylbenzene	ND		1.00	1	11/01/2015 01:50	WG825775
Vinyl chloride	ND		1.00	1	11/01/2015 01:50	WG825775
Xylenes, Total	ND		3.00	1	11/01/2015 01:50	WG825775
(S) Toluene-d8	*98.3*		*90.0-115*		*11/01/2015 01:50*	WG825775
(S) Dibromofluoromethane	*99.2*		*79.0-121*		*11/01/2015 01:50*	WG825775
(S) 4-Bromofluorobenzene	*98.7*		*80.1-120*		*11/01/2015 01:50*	WG825775

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/05/2015 10:45	WG826577
Acenaphthylene	ND		1.00	1	11/05/2015 10:45	WG826577
Anthracene	ND		1.00	1	11/05/2015 10:45	WG826577
Benzidine	ND		10.0	1	11/05/2015 10:45	WG826577
Benzo(a)anthracene	ND		1.00	1	11/05/2015 10:45	WG826577
Benzo(b)fluoranthene	ND		1.00	1	11/05/2015 10:45	WG826577
Benzo(k)fluoranthene	ND		1.00	1	11/05/2015 10:45	WG826577
Benzo(g,h,i)perylene	ND		1.00	1	11/05/2015 10:45	WG826577
Benzo(a)pyrene	ND		1.00	1	11/05/2015 10:45	WG826577
Bis(2-chlorethoxy)methane	ND		10.0	1	11/05/2015 10:45	WG826577
Bis(2-chloroethyl)ether	ND		10.0	1	11/05/2015 10:45	WG826577
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/05/2015 10:45	WG826577
4-Bromophenyl-phenylether	ND		10.0	1	11/05/2015 10:45	WG826577
2-Chloronaphthalene	ND		1.00	1	11/05/2015 10:45	WG826577
4-Chlorophenyl-phenylether	ND		10.0	1	11/05/2015 10:45	WG826577
Chrysene	ND		1.00	1	11/05/2015 10:45	WG826577
Dibenz(a,h)anthracene	ND		1.00	1	11/05/2015 10:45	WG826577
3,3-Dichlorobenzidine	ND		10.0	1	11/05/2015 10:45	WG826577
2,4-Dinitrotoluene	ND		10.0	1	11/05/2015 10:45	WG826577
2,6-Dinitrotoluene	ND		10.0	1	11/05/2015 10:45	WG826577
Fluoranthene	ND		1.00	1	11/05/2015 10:45	WG826577
Fluorene	ND		1.00	1	11/05/2015 10:45	WG826577
Hexachlorobenzene	ND		1.00	1	11/05/2015 10:45	WG826577
Hexachloro-1,3-butadiene	ND		10.0	1	11/05/2015 10:45	WG826577
Hexachlorocyclopentadiene	ND		10.0	1	11/05/2015 10:45	WG826577
Hexachloroethane	ND		10.0	1	11/05/2015 10:45	WG826577
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/05/2015 10:45	WG826577
Isophorone	ND		10.0	1	11/05/2015 10:45	WG826577
Naphthalene	ND		1.00	1	11/05/2015 10:45	WG826577
Nitrobenzene	ND		10.0	1	11/05/2015 10:45	WG826577
n-Nitrosodimethylamine	ND	J	50.0	1	11/05/2015 10:45	WG826577
n-Nitrosodiphenylamine	ND		10.0	1	11/05/2015 10:45	WG826577
n-Nitrosodi-n-propylamine	ND	J	50.0	1	11/05/2015 10:45	WG826577
Phenanthrene	ND		1.00	1	11/05/2015 10:45	WG826577
Benzylbutyl phthalate	ND		3.00	1	11/05/2015 10:45	WG826577
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/05/2015 10:45	WG826577
Di-n-butyl phthalate	ND		3.00	1	11/05/2015 10:45	WG826577
Diethyl phthalate	ND		3.00	1	11/05/2015 10:45	WG826577
Dimethyl phthalate	ND		3.00	1	11/05/2015 10:45	WG826577
Di-n-octyl phthalate	ND		3.00	1	11/05/2015 10:45	WG826577
Pyrene	ND		1.00	1	11/05/2015 10:45	WG826577
1,2,4-Trichlorobenzene	ND		10.0	1	11/05/2015 10:45	WG826577
4-Chloro-3-methylphenol	ND		10.0	1	11/05/2015 10:45	WG826577
2-Chlorophenol	ND		10.0	1	11/05/2015 10:45	WG826577
2,4-Dichlorophenol	ND		10.0	1	11/05/2015 10:45	WG826577
2,4-Dimethylphenol	ND		10.0	1	11/05/2015 10:45	WG826577
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/05/2015 10:45	WG826577
2,4-Dinitrophenol	ND		10.0	1	11/05/2015 10:45	WG826577
2-Nitrophenol	ND		10.0	1	11/05/2015 10:45	WG826577
4-Nitrophenol	ND		10.0	1	11/05/2015 10:45	WG826577
Pentachlorophenol	ND		10.0	1	11/05/2015 10:45	WG826577
Phenol	ND		10.0	1	11/05/2015 10:45	WG826577
2,4,6-Trichlorophenol	ND		10.0	1	11/05/2015 10:45	WG826577
(S) 2-Fluorophenol	*21.3*		*10.0-77.9*		*11/05/2015 10:45*	WG826577
(S) Phenol-d5	*17.4*		*5.00-70.1*		*11/05/2015 10:45*	WG826577
(S) Nitrobenzene-d5	*29.7*		*21.8-123*		*11/05/2015 10:45*	WG826577

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*37.1*		*29.5-131*		*11/05/2015 10:45*	WG826577
(S) 2,4,6-Tribromophenol	*55.7*		*11.2-130*		*11/05/2015 10:45*	WG826577
(S) p-Terphenyl-d14	*53.3*		*29.3-137*		*11/05/2015 10:45*	WG826577

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/03/2015 15:25	WG826294
(S) Toluene-d8	*93.7*		*70.0-130*		*11/03/2015 15:25*	WG826294

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1010		250	1	11/09/2015 09:43	WG827034

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	ND		100	1	10/30/2015 13:28	WG825669
Sulfate	ND		5000	1	10/30/2015 13:28	WG825669

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/02/2015 12:23	WG825753

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/03/2015 14:57	WG825802
Arsenic	2.55		2.00	1	11/03/2015 14:57	WG825802
Beryllium	ND		2.00	1	11/03/2015 14:57	WG825802
Cadmium	ND		1.00	1	11/03/2015 14:57	WG825802
Chromium	ND		2.00	1	11/03/2015 14:57	WG825802
Copper	6.75		5.00	1	11/03/2015 14:57	WG825802
Iron	9820		1000	10	11/03/2015 15:25	WG825802
Lead	4.54		2.00	1	11/03/2015 14:57	WG825802
Manganese	1580		50.0	10	11/03/2015 15:25	WG825802
Nickel	4.96		2.00	1	11/03/2015 14:57	WG825802
Selenium	ND		2.00	1	11/03/2015 14:57	WG825802
Silver	ND		2.00	1	11/03/2015 14:57	WG825802
Thallium	ND		2.00	1	11/03/2015 14:57	WG825802
Zinc	90.0		25.0	1	11/03/2015 14:57	WG825802

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J3	50.0	1	11/01/2015 01:13	WG825775
Acrolein	ND		50.0	1	11/01/2015 01:13	WG825775
Acrylonitrile	ND		10.0	1	11/01/2015 01:13	WG825775
Benzene	ND		1.00	1	11/01/2015 01:13	WG825775
Bromobenzene	ND		1.00	1	11/01/2015 01:13	WG825775
Bromodichloromethane	ND		1.00	1	11/01/2015 01:13	WG825775
Bromoform	ND	J4	1.00	1	11/01/2015 01:13	WG825775
Bromomethane	ND		5.00	1	11/01/2015 01:13	WG825775
n-Butylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
sec-Butylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
tert-Butylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
Carbon tetrachloride	ND		1.00	1	11/01/2015 01:13	WG825775
Chlorobenzene	ND		1.00	1	11/01/2015 01:13	WG825775
Chlorodibromomethane	ND		1.00	1	11/01/2015 01:13	WG825775
Chloroethane	ND		5.00	1	11/01/2015 01:13	WG825775
2-Chloroethyl vinyl ether	ND		50.0	1	11/01/2015 01:13	WG825775
Chloroform	ND		5.00	1	11/01/2015 01:13	WG825775
Chloromethane	ND		2.50	1	11/01/2015 01:13	WG825775
2-Chlorotoluene	ND		1.00	1	11/01/2015 01:13	WG825775
4-Chlorotoluene	ND		1.00	1	11/01/2015 01:13	WG825775

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/01/2015 01:13	WG825775
1,2-Dibromoethane	ND		1.00	1	11/01/2015 01:13	WG825775
Dibromomethane	ND		1.00	1	11/01/2015 01:13	WG825775
1,2-Dichlorobenzene	ND		1.00	1	11/01/2015 01:13	WG825775
1,3-Dichlorobenzene	ND		1.00	1	11/01/2015 01:13	WG825775
1,4-Dichlorobenzene	ND		1.00	1	11/01/2015 01:13	WG825775
Dichlorodifluoromethane	ND		5.00	1	11/01/2015 01:13	WG825775
1,1-Dichloroethane	ND		1.00	1	11/01/2015 01:13	WG825775
1,2-Dichloroethane	ND		1.00	1	11/01/2015 01:13	WG825775
1,1-Dichloroethene	ND		1.00	1	11/01/2015 01:13	WG825775
cis-1,2-Dichloroethene	ND		1.00	1	11/01/2015 01:13	WG825775
trans-1,2-Dichloroethene	ND		1.00	1	11/01/2015 01:13	WG825775
1,2-Dichloropropane	ND		1.00	1	11/01/2015 01:13	WG825775
1,1-Dichloropropene	ND		1.00	1	11/01/2015 01:13	WG825775
1,3-Dichloropropane	ND		1.00	1	11/01/2015 01:13	WG825775
cis-1,3-Dichloropropene	ND		1.00	1	11/01/2015 01:13	WG825775
trans-1,3-Dichloropropene	ND		1.00	1	11/01/2015 01:13	WG825775
2,2-Dichloropropane	ND		1.00	1	11/01/2015 01:13	WG825775
Di-isopropyl ether	ND		1.00	1	11/01/2015 01:13	WG825775
Ethylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
Hexachloro-1,3-butadiene	ND		1.00	1	11/01/2015 01:13	WG825775
Isopropylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
p-Isopropyltoluene	1.24		1.00	1	11/01/2015 01:13	WG825775
2-Butanone (MEK)	ND		10.0	1	11/01/2015 01:13	WG825775
Methylene Chloride	ND		5.00	1	11/01/2015 01:13	WG825775
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/01/2015 01:13	WG825775
Methyl tert-butyl ether	ND		1.00	1	11/01/2015 01:13	WG825775
Naphthalene	ND		5.00	1	11/01/2015 01:13	WG825775
n-Propylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
Styrene	ND		1.00	1	11/01/2015 01:13	WG825775
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/01/2015 01:13	WG825775
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/01/2015 01:13	WG825775
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/01/2015 01:13	WG825775
Tetrachloroethene	ND		1.00	1	11/01/2015 01:13	WG825775
Toluene	ND		5.00	1	11/01/2015 01:13	WG825775
1,2,3-Trichlorobenzene	ND		1.00	1	11/01/2015 01:13	WG825775
1,2,4-Trichlorobenzene	ND		1.00	1	11/01/2015 01:13	WG825775
1,1,1-Trichloroethane	ND		1.00	1	11/01/2015 01:13	WG825775
1,1,2-Trichloroethane	ND		1.00	1	11/01/2015 01:13	WG825775
Trichloroethene	ND		1.00	1	11/01/2015 01:13	WG825775
Trichlorofluoromethane	ND		5.00	1	11/01/2015 01:13	WG825775
1,2,3-Trichloropropane	ND		2.50	1	11/01/2015 01:13	WG825775
1,2,4-Trimethylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
1,2,3-Trimethylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
1,3,5-Trimethylbenzene	ND		1.00	1	11/01/2015 01:13	WG825775
Vinyl chloride	ND		1.00	1	11/01/2015 01:13	WG825775
Xylenes, Total	ND		3.00	1	11/01/2015 01:13	WG825775
(S) Toluene-d8	*101*		*90.0-115*		*11/01/2015 01:13*	WG825775
(S) Dibromofluoromethane	*94.1*		*79.0-121*		*11/01/2015 01:13*	WG825775
(S) 4-Bromofluorobenzene	*100*		*80.1-120*		*11/01/2015 01:13*	WG825775

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/05/2015 10:22	WG826577
Acenaphthylene	ND		1.00	1	11/05/2015 10:22	WG826577
Anthracene	ND		1.00	1	11/05/2015 10:22	WG826577
Benzidine	ND		10.0	1	11/05/2015 10:22	WG826577
Benzo(a)anthracene	ND		1.00	1	11/05/2015 10:22	WG826577
Benzo(b)fluoranthene	ND		1.00	1	11/05/2015 10:22	WG826577
Benzo(k)fluoranthene	ND		1.00	1	11/05/2015 10:22	WG826577
Benzo(g,h,i)perylene	ND		1.00	1	11/05/2015 10:22	WG826577
Benzo(a)pyrene	ND		1.00	1	11/05/2015 10:22	WG826577
Bis(2-chlorethoxy)methane	ND		10.0	1	11/05/2015 10:22	WG826577
Bis(2-chloroethyl)ether	ND		10.0	1	11/05/2015 10:22	WG826577
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/05/2015 10:22	WG826577
4-Bromophenyl-phenylether	ND		10.0	1	11/05/2015 10:22	WG826577
2-Chloronaphthalene	ND		1.00	1	11/05/2015 10:22	WG826577
4-Chlorophenyl-phenylether	ND		10.0	1	11/05/2015 10:22	WG826577
Chrysene	ND		1.00	1	11/05/2015 10:22	WG826577
Dibenz(a,h)anthracene	ND		1.00	1	11/05/2015 10:22	WG826577
3,3-Dichlorobenzidine	ND		10.0	1	11/05/2015 10:22	WG826577
2,4-Dinitrotoluene	ND		10.0	1	11/05/2015 10:22	WG826577
2,6-Dinitrotoluene	ND		10.0	1	11/05/2015 10:22	WG826577
Fluoranthene	ND		1.00	1	11/05/2015 10:22	WG826577
Fluorene	ND		1.00	1	11/05/2015 10:22	WG826577
Hexachlorobenzene	ND		1.00	1	11/05/2015 10:22	WG826577
Hexachloro-1,3-butadiene	ND		10.0	1	11/05/2015 10:22	WG826577
Hexachlorocyclopentadiene	ND		10.0	1	11/05/2015 10:22	WG826577
Hexachloroethane	ND		10.0	1	11/05/2015 10:22	WG826577
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/05/2015 10:22	WG826577
Isophorone	ND		10.0	1	11/05/2015 10:22	WG826577
Naphthalene	ND		1.00	1	11/05/2015 10:22	WG826577
Nitrobenzene	ND		10.0	1	11/05/2015 10:22	WG826577
n-Nitrosodimethylamine	ND	J	50.0	1	11/05/2015 10:22	WG826577
n-Nitrosodiphenylamine	ND		10.0	1	11/05/2015 10:22	WG826577
n-Nitrosodi-n-propylamine	ND	J	50.0	1	11/05/2015 10:22	WG826577
Phenanthrene	ND		1.00	1	11/05/2015 10:22	WG826577
Benzylbutyl phthalate	ND		3.00	1	11/05/2015 10:22	WG826577
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/05/2015 10:22	WG826577
Di-n-butyl phthalate	ND		3.00	1	11/05/2015 10:22	WG826577
Diethyl phthalate	ND		3.00	1	11/05/2015 10:22	WG826577
Dimethyl phthalate	ND		3.00	1	11/05/2015 10:22	WG826577
Di-n-octyl phthalate	ND		3.00	1	11/05/2015 10:22	WG826577
Pyrene	ND		1.00	1	11/05/2015 10:22	WG826577
1,2,4-Trichlorobenzene	ND		10.0	1	11/05/2015 10:22	WG826577
4-Chloro-3-methylphenol	ND		10.0	1	11/05/2015 10:22	WG826577
2-Chlorophenol	ND		10.0	1	11/05/2015 10:22	WG826577
2,4-Dichlorophenol	ND		10.0	1	11/05/2015 10:22	WG826577
2,4-Dimethylphenol	ND		10.0	1	11/05/2015 10:22	WG826577
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/05/2015 10:22	WG826577
2,4-Dinitrophenol	ND		10.0	1	11/05/2015 10:22	WG826577
2-Nitrophenol	ND		10.0	1	11/05/2015 10:22	WG826577
4-Nitrophenol	ND		10.0	1	11/05/2015 10:22	WG826577
Pentachlorophenol	ND		10.0	1	11/05/2015 10:22	WG826577
Phenol	ND		10.0	1	11/05/2015 10:22	WG826577
2,4,6-Trichlorophenol	ND		10.0	1	11/05/2015 10:22	WG826577
(S) 2-Fluorophenol	*23.7*		*10.0-77.9*		*11/05/2015 10:22*	WG826577
(S) Phenol-d5	*17.3*		*5.00-70.1*		*11/05/2015 10:22*	WG826577
(S) Nitrobenzene-d5	*29.1*		*21.8-123*		*11/05/2015 10:22*	WG826577

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*37.8*		*29.5-131*		*11/05/2015 10:22*	WG826577
(S) 2,4,6-Tribromophenol	*51.4*		*11.2-130*		*11/05/2015 10:22*	WG826577
(S) p-Terphenyl-d14	*55.0*		*29.3-137*		*11/05/2015 10:22*	WG826577

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/03/2015 15:49	WG826294
(S) Toluene-d8	*93.4*		*70.0-130*		*11/03/2015 15:49*	WG826294

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	23.5		1	11/02/2015 07:46	WG825859

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	43.4		21.3	1	11/06/2015 11:12	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	ND		4.26	1	11/04/2015 17:52	WG826096
Sulfate	ND		213	1	11/04/2015 17:52	WG826096

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.182		0.0851	1	11/02/2015 10:43	WG825751

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.13	5	11/03/2015 21:33	WG826002
Arsenic	7.32		2.13	5	11/03/2015 21:33	WG826002
Beryllium	ND		2.13	5	11/03/2015 21:33	WG826002
Cadmium	ND		2.13	5	11/03/2015 21:33	WG826002
Chromium	19.3		2.13	5	11/03/2015 21:33	WG826002
Copper	62.1		4.26	5	11/03/2015 21:33	WG826002
Iron	17600		2130	50	11/04/2015 00:40	WG826002
Lead	92.2		2.13	5	11/03/2015 21:33	WG826002
Manganese	500		42.6	50	11/04/2015 00:40	WG826002
Nickel	11.7		2.13	5	11/04/2015 10:44	WG826002
Selenium	ND		2.13	5	11/03/2015 21:33	WG826002
Silver	ND		4.26	5	11/03/2015 21:33	WG826002
Thallium	ND		2.13	5	11/03/2015 21:33	WG826002
Zinc	416		21.3	5	11/03/2015 21:33	WG826002

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.272		0.226	1.06	11/03/2015 01:06	WG826014
Acrylonitrile	ND	J3	0.0451	1.06	11/03/2015 01:06	WG826014
Benzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Bromobenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Bromodichloromethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Bromoform	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Bromomethane	ND		0.0226	1.06	11/03/2015 01:06	WG826014
n-Butylbenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
sec-Butylbenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
tert-Butylbenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Carbon tetrachloride	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Chlorobenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Chlorodibromomethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Chloroethane	ND		0.0226	1.06	11/03/2015 01:06	WG826014

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.226	1.06	11/03/2015 01:06	WG826014
Chloroform	ND		0.0226	1.06	11/03/2015 01:06	WG826014
Chloromethane	ND		0.0113	1.06	11/03/2015 01:06	WG826014
2-Chlorotoluene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
4-Chlorotoluene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,2-Dibromo-3-Chloropropane	ND		0.0226	1.06	11/03/2015 01:06	WG826014
1,2-Dibromoethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Dibromomethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,2-Dichlorobenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,3-Dichlorobenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,4-Dichlorobenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Dichlorodifluoromethane	ND		0.0226	1.06	11/03/2015 01:06	WG826014
1,1-Dichloroethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,2-Dichloroethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,1-Dichloroethene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
cis-1,2-Dichloroethene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
trans-1,2-Dichloroethene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,2-Dichloropropane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,1-Dichloropropene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,3-Dichloropropane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
cis-1,3-Dichloropropene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
trans-1,3-Dichloropropene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
2,2-Dichloropropane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Di-isopropyl ether	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Ethylbenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Hexachloro-1,3-butadiene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Isopropylbenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
p-Isopropyltoluene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
2-Butanone (MEK)	ND		0.0451	1.06	11/03/2015 01:06	WG826014
Methylene Chloride	ND		0.0226	1.06	11/03/2015 01:06	WG826014
4-Methyl-2-pentanone (MIBK)	ND		0.0451	1.06	11/03/2015 01:06	WG826014
Methyl tert-butyl ether	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Naphthalene	ND		0.0226	1.06	11/03/2015 01:06	WG826014
n-Propylbenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Styrene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,1,1,2-Tetrachloroethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,1,2,2-Tetrachloroethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Tetrachloroethene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Toluene	ND		0.0226	1.06	11/03/2015 01:06	WG826014
1,2,3-Trichlorobenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,2,4-Trichlorobenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,1,1-Trichloroethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,1,2-Trichloroethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,1,2-Trichlorotrifluoroethane	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Trichloroethene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Trichlorofluoromethane	ND		0.0226	1.06	11/03/2015 01:06	WG826014
1,2,3-Trichloropropane	ND		0.0113	1.06	11/03/2015 01:06	WG826014
1,2,4-Trimethylbenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
1,3,5-Trimethylbenzene	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Vinyl chloride	ND		0.00451	1.06	11/03/2015 01:06	WG826014
Xylenes, Total	ND		0.0135	1.06	11/03/2015 01:06	WG826014
(S) Toluene-d8	*99.2*		*88.7-115*		*11/03/2015 01:06*	WG826014
(S) Dibromofluoromethane	*115*		*76.3-123*		*11/03/2015 01:06*	WG826014
(S) 4-Bromofluorobenzene	*86.6*		*69.7-129*		*11/03/2015 01:06*	WG826014

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.421	3	11/04/2015 13:16	WG826186
Acenaphthylene	ND		0.421	3	11/04/2015 13:16	WG826186
Anthracene	ND		0.421	3	11/04/2015 13:16	WG826186
Benzidine	ND	J	4.25	3	11/04/2015 13:16	WG826186
Benzo(a)anthracene	ND		0.421	3	11/04/2015 13:16	WG826186
Benzo(b)fluoranthene	ND		0.421	3	11/04/2015 13:16	WG826186
Benzo(k)fluoranthene	ND		0.421	3	11/04/2015 13:16	WG826186
Benzo(g,h,i)perylene	ND		0.421	3	11/04/2015 13:16	WG826186
Benzo(a)pyrene	ND		0.421	3	11/04/2015 13:16	WG826186
Bis(2-chlorethoxy)methane	ND		4.25	3	11/04/2015 13:16	WG826186
Bis(2-chloroethyl)ether	ND	J3	4.25	3	11/04/2015 13:16	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	4.25	3	11/04/2015 13:16	WG826186
4-Bromophenyl-phenylether	ND		4.25	3	11/04/2015 13:16	WG826186
2-Chloronaphthalene	ND		0.421	3	11/04/2015 13:16	WG826186
4-Chlorophenyl-phenylether	ND		4.25	3	11/04/2015 13:16	WG826186
Chrysene	ND		0.421	3	11/04/2015 13:16	WG826186
Dibenz(a,h)anthracene	ND		0.421	3	11/04/2015 13:16	WG826186
3,3-Dichlorobenzidine	ND		4.25	3	11/04/2015 13:16	WG826186
2,4-Dinitrotoluene	ND		4.25	3	11/04/2015 13:16	WG826186
2,6-Dinitrotoluene	ND		4.25	3	11/04/2015 13:16	WG826186
Fluoranthene	ND		0.421	3	11/04/2015 13:16	WG826186
Fluorene	ND		0.421	3	11/04/2015 13:16	WG826186
Hexachlorobenzene	ND		4.25	3	11/04/2015 13:16	WG826186
Hexachloro-1,3-butadiene	ND	J3	4.25	3	11/04/2015 13:16	WG826186
Hexachlorocyclopentadiene	ND		4.25	3	11/04/2015 13:16	WG826186
Hexachloroethane	ND	J3	4.25	3	11/04/2015 13:16	WG826186
Indeno(1,2,3-cd)pyrene	ND		0.421	3	11/04/2015 13:16	WG826186
Isophorone	ND		4.25	3	11/04/2015 13:16	WG826186
Naphthalene	ND		0.421	3	11/04/2015 13:16	WG826186
Nitrobenzene	ND		4.25	3	11/04/2015 13:16	WG826186
n-Nitrosodimethylamine	ND	J3	4.25	3	11/04/2015 13:16	WG826186
n-Nitrosodiphenylamine	ND		4.25	3	11/04/2015 13:16	WG826186
n-Nitrosodi-n-propylamine	ND		4.25	3	11/04/2015 13:16	WG826186
Phenanthrene	ND		0.421	3	11/04/2015 13:16	WG826186
Benzylbutyl phthalate	ND		4.25	3	11/04/2015 13:16	WG826186
Bis(2-ethylhexyl)phthalate	ND		4.25	3	11/04/2015 13:16	WG826186
Di-n-butyl phthalate	ND		4.25	3	11/04/2015 13:16	WG826186
Diethyl phthalate	ND		4.25	3	11/04/2015 13:16	WG826186
Dimethyl phthalate	ND		4.25	3	11/04/2015 13:16	WG826186
Di-n-octyl phthalate	ND		4.25	3	11/04/2015 13:16	WG826186
Pyrene	ND	J	0.421	3	11/04/2015 13:16	WG826186
1,2,4-Trichlorobenzene	ND		4.25	3	11/04/2015 13:16	WG826186
4-Chloro-3-methylphenol	ND		4.25	3	11/04/2015 13:16	WG826186
2-Chlorophenol	ND	J3	4.25	3	11/04/2015 13:16	WG826186
2,4-Dichlorophenol	ND		4.25	3	11/04/2015 13:16	WG826186
2,4-Dimethylphenol	ND		4.25	3	11/04/2015 13:16	WG826186
4,6-Dinitro-2-methylphenol	ND		4.25	3	11/04/2015 13:16	WG826186
2,4-Dinitrophenol	ND		4.25	3	11/04/2015 13:16	WG826186
2-Nitrophenol	ND		4.25	3	11/04/2015 13:16	WG826186
4-Nitrophenol	ND		4.25	3	11/04/2015 13:16	WG826186
Pentachlorophenol	ND	J	4.25	3	11/04/2015 13:16	WG826186
Phenol	ND		4.25	3	11/04/2015 13:16	WG826186
2,4,6-Trichlorophenol	ND		4.25	3	11/04/2015 13:16	WG826186
(S) 2-Fluorophenol	*62.0*		*21.1-116*		*11/04/2015 13:16*	WG826186
(S) Phenol-d5	*64.3*		*26.3-121*		*11/04/2015 13:16*	WG826186
(S) Nitrobenzene-d5	*66.0*		*21.9-129*		*11/04/2015 13:16*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*70.6*		*34.9-129*		*11/04/2015 13:16*	WG826186
(S) 2,4,6-Tribromophenol	*78.6*		*21.6-142*		*11/04/2015 13:16*	WG826186
(S) p-Terphenyl-d14	*63.3*		*21.5-128*		*11/04/2015 13:16*	WG826186

Sample Narrative:

8270D L797680-07 WG826186: Dilution due to sample volume

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	23.5		1	11/02/2015 07:46	WG825859

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0638	5	11/06/2015 11:25	WG826296
(S) Toluene-d8	*101*		*70.0-130*		*11/06/2015 11:25*	WG826296

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	20.9		1	11/02/2015 07:46	WG825859

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	82.5		24.0	1	11/06/2015 11:14	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	ND		4.79	1	11/04/2015 18:16	WG826096
Sulfate	ND		240	1	11/04/2015 18:16	WG826096

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.257		0.0959	1	11/02/2015 10:46	WG825751

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.40	5	11/03/2015 21:35	WG826002
Arsenic	12.9		2.40	5	11/03/2015 21:35	WG826002
Beryllium	ND		2.40	5	11/03/2015 21:35	WG826002
Cadmium	ND		2.40	5	11/03/2015 21:35	WG826002
Chromium	24.9		2.40	5	11/03/2015 21:35	WG826002
Copper	86.2		4.79	5	11/03/2015 21:35	WG826002
Iron	17200		2400	50	11/04/2015 00:43	WG826002
Lead	126		2.40	5	11/03/2015 21:35	WG826002
Manganese	449		4.79	5	11/03/2015 21:35	WG826002
Nickel	13.2		2.40	5	11/04/2015 10:46	WG826002
Selenium	ND		2.40	5	11/03/2015 21:35	WG826002
Silver	22.3		4.79	5	11/03/2015 21:35	WG826002
Thallium	ND		2.40	5	11/03/2015 21:35	WG826002
Zinc	351		24.0	5	11/03/2015 21:35	WG826002

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.479		0.300	1.25	11/03/2015 01:27	WG826014
Acrylonitrile	ND	J3	0.0599	1.25	11/03/2015 01:27	WG826014
Benzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Bromobenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Bromodichloromethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Bromoform	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Bromomethane	ND		0.0300	1.25	11/03/2015 01:27	WG826014
n-Butylbenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
sec-Butylbenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
tert-Butylbenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Carbon tetrachloride	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Chlorobenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Chlorodibromomethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Chloroethane	ND		0.0300	1.25	11/03/2015 01:27	WG826014

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.300	1.25	11/03/2015 01:27	WG826014
Chloroform	ND		0.0300	1.25	11/03/2015 01:27	WG826014
Chloromethane	ND		0.0150	1.25	11/03/2015 01:27	WG826014
2-Chlorotoluene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
4-Chlorotoluene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,2-Dibromo-3-Chloropropane	ND		0.0300	1.25	11/03/2015 01:27	WG826014
1,2-Dibromoethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Dibromomethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,2-Dichlorobenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,3-Dichlorobenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,4-Dichlorobenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Dichlorodifluoromethane	ND		0.0300	1.25	11/03/2015 01:27	WG826014
1,1-Dichloroethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,2-Dichloroethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,1-Dichloroethene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
cis-1,2-Dichloroethene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
trans-1,2-Dichloroethene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,2-Dichloropropane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,1-Dichloropropene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,3-Dichloropropane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
cis-1,3-Dichloropropene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
trans-1,3-Dichloropropene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
2,2-Dichloropropane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Di-isopropyl ether	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Ethylbenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Hexachloro-1,3-butadiene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Isopropylbenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
p-Isopropyltoluene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
2-Butanone (MEK)	ND		0.0599	1.25	11/03/2015 01:27	WG826014
Methylene Chloride	ND		0.0300	1.25	11/03/2015 01:27	WG826014
4-Methyl-2-pentanone (MIBK)	ND		0.0599	1.25	11/03/2015 01:27	WG826014
Methyl tert-butyl ether	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Naphthalene	ND		0.0300	1.25	11/03/2015 01:27	WG826014
n-Propylbenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Styrene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,1,1,2-Tetrachloroethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,1,2,2-Tetrachloroethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Tetrachloroethene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Toluene	ND		0.0300	1.25	11/03/2015 01:27	WG826014
1,2,3-Trichlorobenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,2,4-Trichlorobenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,1,1-Trichloroethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,1,2-Trichloroethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,1,2-Trichlorotrifluoroethane	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Trichloroethene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Trichlorofluoromethane	ND		0.0300	1.25	11/03/2015 01:27	WG826014
1,2,3-Trichloropropane	ND		0.0150	1.25	11/03/2015 01:27	WG826014
1,2,4-Trimethylbenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
1,3,5-Trimethylbenzene	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Vinyl chloride	ND		0.00599	1.25	11/03/2015 01:27	WG826014
Xylenes, Total	ND		0.0180	1.25	11/03/2015 01:27	WG826014
(S) Toluene-d8	*101*		*88.7-115*		*11/03/2015 01:27*	WG826014
(S) Dibromofluoromethane	*112*		*76.3-123*		*11/03/2015 01:27*	WG826014
(S) 4-Bromofluorobenzene	*84.7*		*69.7-129*		*11/03/2015 01:27*	WG826014

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.475	3	11/04/2015 13:40	WG826186
Acenaphthylene	ND		0.475	3	11/04/2015 13:40	WG826186
Anthracene	ND		0.475	3	11/04/2015 13:40	WG826186
Benzidine	ND	J	4.79	3	11/04/2015 13:40	WG826186
Benzo(a)anthracene	ND		0.475	3	11/04/2015 13:40	WG826186
Benzo(b)fluoranthene	ND		0.475	3	11/04/2015 13:40	WG826186
Benzo(k)fluoranthene	ND		0.475	3	11/04/2015 13:40	WG826186
Benzo(g,h,i)perylene	ND		0.475	3	11/04/2015 13:40	WG826186
Benzo(a)pyrene	ND		0.475	3	11/04/2015 13:40	WG826186
Bis(2-chlorethoxy)methane	ND		4.79	3	11/04/2015 13:40	WG826186
Bis(2-chloroethyl)ether	ND	J3	4.79	3	11/04/2015 13:40	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	4.79	3	11/04/2015 13:40	WG826186
4-Bromophenyl-phenylether	ND		4.79	3	11/04/2015 13:40	WG826186
2-Chloronaphthalene	ND		0.475	3	11/04/2015 13:40	WG826186
4-Chlorophenyl-phenylether	ND		4.79	3	11/04/2015 13:40	WG826186
Chrysene	ND		0.475	3	11/04/2015 13:40	WG826186
Dibenz(a,h)anthracene	ND		0.475	3	11/04/2015 13:40	WG826186
3,3-Dichlorobenzidine	ND		4.79	3	11/04/2015 13:40	WG826186
2,4-Dinitrotoluene	ND		4.79	3	11/04/2015 13:40	WG826186
2,6-Dinitrotoluene	ND		4.79	3	11/04/2015 13:40	WG826186
Fluoranthene	ND		0.475	3	11/04/2015 13:40	WG826186
Fluorene	ND		0.475	3	11/04/2015 13:40	WG826186
Hexachlorobenzene	ND		4.79	3	11/04/2015 13:40	WG826186
Hexachloro-1,3-butadiene	ND	J3	4.79	3	11/04/2015 13:40	WG826186
Hexachlorocyclopentadiene	ND		4.79	3	11/04/2015 13:40	WG826186
Hexachloroethane	ND	J3	4.79	3	11/04/2015 13:40	WG826186
Indeno(1,2,3-cd)pyrene	ND		0.475	3	11/04/2015 13:40	WG826186
Isophorone	ND		4.79	3	11/04/2015 13:40	WG826186
Naphthalene	ND		0.475	3	11/04/2015 13:40	WG826186
Nitrobenzene	ND		4.79	3	11/04/2015 13:40	WG826186
n-Nitrosodimethylamine	ND	J3	4.79	3	11/04/2015 13:40	WG826186
n-Nitrosodiphenylamine	ND		4.79	3	11/04/2015 13:40	WG826186
n-Nitrosodi-n-propylamine	ND		4.79	3	11/04/2015 13:40	WG826186
Phenanthrene	ND		0.475	3	11/04/2015 13:40	WG826186
Benzylbutyl phthalate	ND		4.79	3	11/04/2015 13:40	WG826186
Bis(2-ethylhexyl)phthalate	ND		4.79	3	11/04/2015 13:40	WG826186
Di-n-butyl phthalate	ND		4.79	3	11/04/2015 13:40	WG826186
Diethyl phthalate	ND		4.79	3	11/04/2015 13:40	WG826186
Dimethyl phthalate	ND		4.79	3	11/04/2015 13:40	WG826186
Di-n-octyl phthalate	ND		4.79	3	11/04/2015 13:40	WG826186
Pyrene	ND	J	0.475	3	11/04/2015 13:40	WG826186
1,2,4-Trichlorobenzene	ND		4.79	3	11/04/2015 13:40	WG826186
4-Chloro-3-methylphenol	ND		4.79	3	11/04/2015 13:40	WG826186
2-Chlorophenol	ND	J3	4.79	3	11/04/2015 13:40	WG826186
2,4-Dichlorophenol	ND		4.79	3	11/04/2015 13:40	WG826186
2,4-Dimethylphenol	ND		4.79	3	11/04/2015 13:40	WG826186
4,6-Dinitro-2-methylphenol	ND		4.79	3	11/04/2015 13:40	WG826186
2,4-Dinitrophenol	ND		4.79	3	11/04/2015 13:40	WG826186
2-Nitrophenol	ND		4.79	3	11/04/2015 13:40	WG826186
4-Nitrophenol	ND		4.79	3	11/04/2015 13:40	WG826186
Pentachlorophenol	ND	J	4.79	3	11/04/2015 13:40	WG826186
Phenol	ND		4.79	3	11/04/2015 13:40	WG826186
2,4,6-Trichlorophenol	ND		4.79	3	11/04/2015 13:40	WG826186
(S) 2-Fluorophenol	*68.0*		*21.1-116*		*11/04/2015 13:40*	WG826186
(S) Phenol-d5	*66.6*		*26.3-121*		*11/04/2015 13:40*	WG826186
(S) Nitrobenzene-d5	*71.6*		*21.9-129*		*11/04/2015 13:40*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*71.6*		*34.9-129*		*11/04/2015 13:40*	WG826186
(S) 2,4,6-Tribromophenol	*80.6*		*21.6-142*		*11/04/2015 13:40*	WG826186
(S) p-Terphenyl-d14	*60.3*		*21.5-128*		*11/04/2015 13:40*	WG826186

Sample Narrative:

8270D L797680-09 WG826186: Dilution due to sample volume

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	20.8		1	11/02/2015 07:46	WG825859

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0721	5	11/06/2015 11:44	WG826296
(S) Toluene-d8	*103*		*70.0-130*		*11/06/2015 11:44*	WG826296

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	53.3	J3	1	11/04/2015 07:26	WG826058

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	10.0		9.38	1	11/06/2015 11:15	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	ND		1.88	1	11/04/2015 18:40	WG826096
Sulfate	97.7		93.8	1	11/04/2015 18:40	WG826096

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.115		0.0375	1	11/02/2015 10:49	WG825751

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.25		0.938	5	11/03/2015 21:37	WG826002
Arsenic	7.47		0.938	5	11/03/2015 21:37	WG826002
Beryllium	ND		0.938	5	11/03/2015 21:37	WG826002
Cadmium	ND		0.938	5	11/03/2015 21:37	WG826002
Chromium	18.9		0.938	5	11/03/2015 21:37	WG826002
Copper	218		18.8	50	11/04/2015 00:45	WG826002
Iron	17100		938	50	11/04/2015 00:45	WG826002
Lead	37.1		0.938	5	11/03/2015 21:37	WG826002
Manganese	181		1.88	5	11/03/2015 21:37	WG826002
Nickel	13.0		0.938	5	11/04/2015 10:49	WG826002
Selenium	ND		0.938	5	11/03/2015 21:37	WG826002
Silver	ND		1.88	5	11/03/2015 21:37	WG826002
Thallium	ND		0.938	5	11/03/2015 21:37	WG826002
Zinc	181		9.38	5	11/03/2015 21:37	WG826002

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.110		0.104	1.11	11/03/2015 01:47	WG826014
Acrylonitrile	ND	J3	0.0208	1.11	11/03/2015 01:47	WG826014
Benzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Bromobenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Bromodichloromethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Bromoform	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Bromomethane	ND		0.0104	1.11	11/03/2015 01:47	WG826014
n-Butylbenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
sec-Butylbenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
tert-Butylbenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Carbon tetrachloride	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Chlorobenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Chlorodibromomethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Chloroethane	ND		0.0104	1.11	11/03/2015 01:47	WG826014

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.104	1.11	11/03/2015 01:47	WG826014
Chloroform	ND		0.0104	1.11	11/03/2015 01:47	WG826014
Chloromethane	ND		0.00521	1.11	11/03/2015 01:47	WG826014
2-Chlorotoluene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
4-Chlorotoluene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,2-Dibromo-3-Chloropropane	ND		0.0104	1.11	11/03/2015 01:47	WG826014
1,2-Dibromoethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Dibromomethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,2-Dichlorobenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,3-Dichlorobenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,4-Dichlorobenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Dichlorodifluoromethane	ND		0.0104	1.11	11/03/2015 01:47	WG826014
1,1-Dichloroethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,2-Dichloroethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,1-Dichloroethene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
cis-1,2-Dichloroethene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
trans-1,2-Dichloroethene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,2-Dichloropropane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,1-Dichloropropene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,3-Dichloropropane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
cis-1,3-Dichloropropene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
trans-1,3-Dichloropropene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
2,2-Dichloropropane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Di-isopropyl ether	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Ethylbenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Hexachloro-1,3-butadiene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Isopropylbenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
p-Isopropyltoluene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
2-Butanone (MEK)	ND		0.0208	1.11	11/03/2015 01:47	WG826014
Methylene Chloride	ND		0.0104	1.11	11/03/2015 01:47	WG826014
4-Methyl-2-pentanone (MIBK)	ND		0.0208	1.11	11/03/2015 01:47	WG826014
Methyl tert-butyl ether	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Naphthalene	ND		0.0104	1.11	11/03/2015 01:47	WG826014
n-Propylbenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Styrene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,1,1,2-Tetrachloroethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,1,2,2-Tetrachloroethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Tetrachloroethene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Toluene	ND		0.0104	1.11	11/03/2015 01:47	WG826014
1,2,3-Trichlorobenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,2,4-Trichlorobenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,1,1-Trichloroethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,1,2-Trichloroethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,1,2-Trichlorotrifluoroethane	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Trichloroethene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Trichlorofluoromethane	ND		0.0104	1.11	11/03/2015 01:47	WG826014
1,2,3-Trichloropropane	ND		0.00521	1.11	11/03/2015 01:47	WG826014
1,2,4-Trimethylbenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
1,3,5-Trimethylbenzene	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Vinyl chloride	ND		0.00208	1.11	11/03/2015 01:47	WG826014
Xylenes, Total	ND		0.00625	1.11	11/03/2015 01:47	WG826014
(S) Toluene-d8	*101*		*88.7-115*		*11/03/2015 01:47*	WG826014
(S) Dibromofluoromethane	*115*		*76.3-123*		*11/03/2015 01:47*	WG826014
(S) 4-Bromofluorobenzene	*87.7*		*69.7-129*		*11/03/2015 01:47*	WG826014

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.186	3	11/04/2015 14:04	WG826186
Acenaphthylene	ND		0.186	3	11/04/2015 14:04	WG826186
Anthracene	ND		0.186	3	11/04/2015 14:04	WG826186
Benzidine	ND	J	1.87	3	11/04/2015 14:04	WG826186
Benzo(a)anthracene	ND		0.186	3	11/04/2015 14:04	WG826186
Benzo(b)fluoranthene	ND		0.186	3	11/04/2015 14:04	WG826186
Benzo(k)fluoranthene	ND		0.186	3	11/04/2015 14:04	WG826186
Benzo(g,h,i)perylene	ND		0.186	3	11/04/2015 14:04	WG826186
Benzo(a)pyrene	ND		0.186	3	11/04/2015 14:04	WG826186
Bis(2-chlorethoxy)methane	ND		1.87	3	11/04/2015 14:04	WG826186
Bis(2-chloroethyl)ether	ND	J3	1.87	3	11/04/2015 14:04	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	1.87	3	11/04/2015 14:04	WG826186
4-Bromophenyl-phenylether	ND		1.87	3	11/04/2015 14:04	WG826186
2-Chloronaphthalene	ND		0.186	3	11/04/2015 14:04	WG826186
4-Chlorophenyl-phenylether	ND		1.87	3	11/04/2015 14:04	WG826186
Chrysene	ND		0.186	3	11/04/2015 14:04	WG826186
Dibenz(a,h)anthracene	ND		0.186	3	11/04/2015 14:04	WG826186
3,3-Dichlorobenzidine	ND		1.87	3	11/04/2015 14:04	WG826186
2,4-Dinitrotoluene	ND		1.87	3	11/04/2015 14:04	WG826186
2,6-Dinitrotoluene	ND		1.87	3	11/04/2015 14:04	WG826186
Fluoranthene	ND		0.186	3	11/04/2015 14:04	WG826186
Fluorene	ND		0.186	3	11/04/2015 14:04	WG826186
Hexachlorobenzene	ND		1.87	3	11/04/2015 14:04	WG826186
Hexachloro-1,3-butadiene	ND	J3	1.87	3	11/04/2015 14:04	WG826186
Hexachlorocyclopentadiene	ND		1.87	3	11/04/2015 14:04	WG826186
Hexachloroethane	ND	J3	1.87	3	11/04/2015 14:04	WG826186
Indeno(1,2,3-cd)pyrene	ND		0.186	3	11/04/2015 14:04	WG826186
Isophorone	ND		1.87	3	11/04/2015 14:04	WG826186
Naphthalene	ND		0.186	3	11/04/2015 14:04	WG826186
Nitrobenzene	ND		1.87	3	11/04/2015 14:04	WG826186
n-Nitrosodimethylamine	ND	J3	1.87	3	11/04/2015 14:04	WG826186
n-Nitrosodiphenylamine	ND		1.87	3	11/04/2015 14:04	WG826186
n-Nitrosodi-n-propylamine	ND		1.87	3	11/04/2015 14:04	WG826186
Phenanthrene	ND		0.186	3	11/04/2015 14:04	WG826186
Benzylbutyl phthalate	ND		1.87	3	11/04/2015 14:04	WG826186
Bis(2-ethylhexyl)phthalate	ND		1.87	3	11/04/2015 14:04	WG826186
Di-n-butyl phthalate	ND		1.87	3	11/04/2015 14:04	WG826186
Diethyl phthalate	ND		1.87	3	11/04/2015 14:04	WG826186
Dimethyl phthalate	ND		1.87	3	11/04/2015 14:04	WG826186
Di-n-octyl phthalate	ND		1.87	3	11/04/2015 14:04	WG826186
Pyrene	ND	J	0.186	3	11/04/2015 14:04	WG826186
1,2,4-Trichlorobenzene	ND		1.87	3	11/04/2015 14:04	WG826186
4-Chloro-3-methylphenol	ND		1.87	3	11/04/2015 14:04	WG826186
2-Chlorophenol	ND	J3	1.87	3	11/04/2015 14:04	WG826186
2,4-Dichlorophenol	ND		1.87	3	11/04/2015 14:04	WG826186
2,4-Dimethylphenol	ND		1.87	3	11/04/2015 14:04	WG826186
4,6-Dinitro-2-methylphenol	ND		1.87	3	11/04/2015 14:04	WG826186
2,4-Dinitrophenol	ND		1.87	3	11/04/2015 14:04	WG826186
2-Nitrophenol	ND		1.87	3	11/04/2015 14:04	WG826186
4-Nitrophenol	ND		1.87	3	11/04/2015 14:04	WG826186
Pentachlorophenol	ND	J	1.87	3	11/04/2015 14:04	WG826186
Phenol	ND		1.87	3	11/04/2015 14:04	WG826186
2,4,6-Trichlorophenol	ND		1.87	3	11/04/2015 14:04	WG826186
(S) 2-Fluorophenol	*73.0*		*21.1-116*		*11/04/2015 14:04*	WG826186
(S) Phenol-d5	*70.0*		*26.3-121*		*11/04/2015 14:04*	WG826186
(S) Nitrobenzene-d5	*74.6*		*21.9-129*		*11/04/2015 14:04*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*72.0*		*34.9-129*		*11/04/2015 14:04*	WG826186
(S) 2,4,6-Tribromophenol	*76.3*		*21.6-142*		*11/04/2015 14:04*	WG826186
(S) p-Terphenyl-d14	*60.0*		*21.5-128*		*11/04/2015 14:04*	WG826186

Sample Narrative:

8270D L797680-11 WG826186: Dilution due to sample volume

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	53.3	J3	1	11/04/2015 07:26	WG826058

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0281	5	11/06/2015 12:04	WG826296
(S) Toluene-d8	*104*		*70.0-130*		*11/06/2015 12:04*	WG826296

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J3	50.0	1	10/31/2015 20:57	WG825775
Acrolein	ND		50.0	1	10/31/2015 20:57	WG825775
Acrylonitrile	ND		10.0	1	10/31/2015 20:57	WG825775
Benzene	ND		1.00	1	10/31/2015 20:57	WG825775
Bromobenzene	ND		1.00	1	10/31/2015 20:57	WG825775
Bromodichloromethane	ND		1.00	1	10/31/2015 20:57	WG825775
Bromoform	ND	J4	1.00	1	10/31/2015 20:57	WG825775
Bromomethane	ND		5.00	1	10/31/2015 20:57	WG825775
n-Butylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
sec-Butylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
tert-Butylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
Carbon tetrachloride	ND		1.00	1	10/31/2015 20:57	WG825775
Chlorobenzene	ND		1.00	1	10/31/2015 20:57	WG825775
Chlorodibromomethane	ND		1.00	1	10/31/2015 20:57	WG825775
Chloroethane	ND		5.00	1	10/31/2015 20:57	WG825775
2-Chloroethyl vinyl ether	ND		50.0	1	10/31/2015 20:57	WG825775
Chloroform	ND		5.00	1	10/31/2015 20:57	WG825775
Chloromethane	ND		2.50	1	10/31/2015 20:57	WG825775
2-Chlorotoluene	ND		1.00	1	10/31/2015 20:57	WG825775
4-Chlorotoluene	ND		1.00	1	10/31/2015 20:57	WG825775
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/31/2015 20:57	WG825775
1,2-Dibromoethane	ND		1.00	1	10/31/2015 20:57	WG825775
Dibromomethane	ND		1.00	1	10/31/2015 20:57	WG825775
1,2-Dichlorobenzene	ND		1.00	1	10/31/2015 20:57	WG825775
1,3-Dichlorobenzene	ND		1.00	1	10/31/2015 20:57	WG825775
1,4-Dichlorobenzene	ND		1.00	1	10/31/2015 20:57	WG825775
Dichlorodifluoromethane	ND		5.00	1	10/31/2015 20:57	WG825775
1,1-Dichloroethane	ND		1.00	1	10/31/2015 20:57	WG825775
1,2-Dichloroethane	ND		1.00	1	10/31/2015 20:57	WG825775
1,1-Dichloroethene	ND		1.00	1	10/31/2015 20:57	WG825775
cis-1,2-Dichloroethene	ND		1.00	1	10/31/2015 20:57	WG825775
trans-1,2-Dichloroethene	ND		1.00	1	10/31/2015 20:57	WG825775
1,2-Dichloropropane	ND		1.00	1	10/31/2015 20:57	WG825775
1,1-Dichloropropene	ND		1.00	1	10/31/2015 20:57	WG825775
1,3-Dichloropropane	ND		1.00	1	10/31/2015 20:57	WG825775
cis-1,3-Dichloropropene	ND		1.00	1	10/31/2015 20:57	WG825775
trans-1,3-Dichloropropene	ND		1.00	1	10/31/2015 20:57	WG825775
2,2-Dichloropropane	ND		1.00	1	10/31/2015 20:57	WG825775
Di-isopropyl ether	ND		1.00	1	10/31/2015 20:57	WG825775
Ethylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
Hexachloro-1,3-butadiene	ND		1.00	1	10/31/2015 20:57	WG825775
Isopropylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
p-Isopropyltoluene	ND		1.00	1	10/31/2015 20:57	WG825775
2-Butanone (MEK)	ND		10.0	1	10/31/2015 20:57	WG825775
Methylene Chloride	ND		5.00	1	10/31/2015 20:57	WG825775
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/31/2015 20:57	WG825775
Methyl tert-butyl ether	ND		1.00	1	10/31/2015 20:57	WG825775
Naphthalene	ND		5.00	1	10/31/2015 20:57	WG825775
n-Propylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
Styrene	ND		1.00	1	10/31/2015 20:57	WG825775
1,1,1,2-Tetrachloroethane	ND		1.00	1	10/31/2015 20:57	WG825775
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/31/2015 20:57	WG825775
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/31/2015 20:57	WG825775
Tetrachloroethene	ND		1.00	1	10/31/2015 20:57	WG825775
Toluene	ND		5.00	1	10/31/2015 20:57	WG825775
1,2,3-Trichlorobenzene	ND		1.00	1	10/31/2015 20:57	WG825775

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	10/31/2015 20:57	WG825775
1,1,1-Trichloroethane	ND		1.00	1	10/31/2015 20:57	WG825775
1,1,2-Trichloroethane	ND		1.00	1	10/31/2015 20:57	WG825775
Trichloroethene	ND		1.00	1	10/31/2015 20:57	WG825775
Trichlorofluoromethane	ND		5.00	1	10/31/2015 20:57	WG825775
1,2,3-Trichloropropane	ND		2.50	1	10/31/2015 20:57	WG825775
1,2,4-Trimethylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
1,2,3-Trimethylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
1,3,5-Trimethylbenzene	ND		1.00	1	10/31/2015 20:57	WG825775
Vinyl chloride	ND		1.00	1	10/31/2015 20:57	WG825775
Xylenes, Total	ND		3.00	1	10/31/2015 20:57	WG825775
(S) Toluene-d8	*100*		*90.0-115*		*10/31/2015 20:57*	WG825775
(S) Dibromofluoromethane	*94.9*		*79.0-121*		*10/31/2015 20:57*	WG825775
(S) 4-Bromofluorobenzene	*99.5*		*80.1-120*		*10/31/2015 20:57*	WG825775

Method Blank (MB)

(MB) 11/02/15 07:44

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.000300		

L797961-07 Original Sample (OS) • Duplicate (DUP)

(OS) 11/02/15 07:47 • (DUP) 11/02/15 07:47

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	82.2	83.9	1	1.99		5

Laboratory Control Sample (LCS)

(LCS) 11/02/15 07:44

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) 11/04/15 07:25

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.00120		

L797680-11 Original Sample (OS) • Duplicate (DUP)

(OS) 11/04/15 07:26 • (DUP) 11/04/15 07:27

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	53.3	56.4	1	5.65	J3	5

Laboratory Control Sample (LCS)

(LCS) 11/04/15 07:25

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) 11/06/15 11:06

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Ammonia Nitrogen	ND		5.00

L798115-05 Original Sample (OS) • Duplicate (DUP)

(OS) 11/06/15 11:27 • (DUP) 11/06/15 11:28

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		20

L797680-07 Original Sample (OS) • Duplicate (DUP)

(OS) 11/06/15 11:12 • (DUP) 11/06/15 11:13

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	10.2	11.2	1	9.35		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/06/15 11:09 • (LCSD) 11/06/15 11:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	514	452	458	87.9	89.1	70.0-130			1.32	20

L798115-07 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/06/15 11:21 • (MS) 11/06/15 11:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	500	3.73	432	86.4	1	80.0-120	

L798115-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/06/15 11:29 • (MS) 11/06/15 11:30 • (MSD) 11/06/15 11:31

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	500	ND	426	411	85.2	82.2	1	80.0-120			3.58	20

Method Blank (MB)

(MB) 11/09/15 09:25

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Ammonia Nitrogen	ND		0.250

L797768-03 Original Sample (OS) • Duplicate (DUP)

(OS) 11/09/15 09:59 • (DUP) 11/09/15 10:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	1.06	1.18	1	10.7		20

L797416-01 Original Sample (OS) • Duplicate (DUP)

(OS) 11/09/15 09:33 • (DUP) 11/09/15 09:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.300	0.384	1	24.6	P1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/09/15 09:28 • (LCSD) 11/09/15 09:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	7.50	7.89	7.65	105	102	90-110			3.09	20

L797768-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/09/15 09:56 • (MS) 11/09/15 09:57 • (MSD) 11/09/15 09:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	10.0	4.40	13.7	14.3	93	99	1	90-110			4.29	20

L797684-01 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/09/15 09:31 • (MS) 11/09/15 09:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	10.0	11.6	21.1	95	1	90-110	

Method Blank (MB)

(MB) 10/30/15 06:31

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Nitrate	ND		0.100
Sulfate	ND		5.00

L797680-01 Original Sample (OS) • Duplicate (DUP)

(OS) 10/30/15 12:57 • (DUP) 10/30/15 13:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.00920	0.0105	1	0		20
Sulfate	4.91	5.02	1	2		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/30/15 06:46 • (LCSD) 10/30/15 07:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate	8.00	8.04	8.05	101	101	90-110			0	20
Sulfate	40.0	40.2	38.7	100	97	90-110			4	20

L797680-03 Original Sample (OS) • Matrix Spike (MS)

(OS) 10/30/15 13:13 • (MS) 10/30/15 14:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5.00	0.0244	5.18	103	1	80-120	
Sulfate	50.0	1.43	53.5	104	1	80-120	

Method Blank (MB)

(MB) 11/04/15 14:00

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Nitrate	ND		1.00
Sulfate	ND		50.0

L797847-01 Original Sample (OS) • Duplicate (DUP)

(OS) 11/04/15 19:52 • (DUP) 11/04/15 20:15

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.347	0.351	1	0		20
Sulfate	5.85	5.40	1	0		20

L797847-03 Original Sample (OS) • Duplicate (DUP)

(OS) 11/04/15 21:51 • (DUP) 11/04/15 22:15

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.420	0.403	1	0		20
Sulfate	5.58	5.89	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 14:24 • (LCSD) 11/04/15 14:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate	20.0	20.6	20.5	103	103	80-120			0	20
Sulfate	200	210	210	105	105	80-120			0	20

L797852-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/05/15 00:15 • (MS) 11/05/15 00:39 • (MSD) 11/05/15 01:02

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	100	3.46	101	103	97.6	99.5	1	80-120			1.88	20
Sulfate	1000	11.5	992	1010	98.1	99.8	1	80-120			1.75	20

Method Blank (MB)

(MB) 11/02/15 11:48

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Mercury	ND		0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/02/15 11:50 • (LCSD) 11/02/15 11:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00298	0.00301	99	100	80-120			1	20

L797770-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/02/15 11:54 • (MS) 11/02/15 11:57 • (MSD) 11/02/15 12:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00306	0.00311	102	104	1	75-125			2	20

Method Blank (MB)

(MB) 11/02/15 10:28

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Mercury	ND		0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/02/15 10:31 • (LCSD) 11/02/15 10:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.276	0.267	92	89	80-120			3	20

L797803-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/02/15 10:36 • (MS) 11/02/15 10:38 • (MSD) 11/02/15 10:41

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.000457	0.286	0.274	95	91	1	75-125			4	20

Method Blank (MB)

(MB) 11/03/15 13:51

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Antimony	ND		0.00200
Arsenic	ND		0.00200
Beryllium	ND		0.00200
Cadmium	ND		0.00100
Chromium	ND		0.00200
Copper	ND		0.00500
Iron	ND		0.100
Lead	ND		0.00200
Manganese	ND		0.00500
Nickel	ND		0.00200
Selenium	ND		0.00200
Silver	ND		0.00200
Thallium	ND		0.00200
Zinc	ND		0.0250

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/03/15 13:54 • (LCSD) 11/03/15 13:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	0.0524	0.0510	105	102	80-120			3	20
Arsenic	0.0500	0.0487	0.0479	97	96	80-120			2	20
Beryllium	0.0500	0.0460	0.0444	92	89	80-120			4	20
Cadmium	0.0500	0.0511	0.0500	102	100	80-120			2	20
Chromium	0.0500	0.0510	0.0495	102	99	80-120			3	20
Copper	0.0500	0.0526	0.0520	105	104	80-120			1	20
Iron	5.00	4.93	4.84	99	97	80-120			2	20
Lead	0.0500	0.0507	0.0489	101	98	80-120			4	20
Manganese	0.0500	0.0497	0.0488	99	98	80-120			2	20
Nickel	0.0500	0.0517	0.0501	103	100	80-120			3	20
Selenium	0.0500	0.0506	0.0497	101	99	80-120			2	20
Silver	0.0500	0.0518	0.0507	104	101	80-120			2	20
Thallium	0.0500	0.0497	0.0477	99	95	80-120			4	20
Zinc	0.0500	0.0523	0.0499	105	100	80-120			5	20

L797498-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/03/15 13:58 • (MS) 11/03/15 14:03 • (MSD) 11/03/15 14:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	0.000186	0.0523	0.0516	104	103	1	75-125			1	20
Arsenic	0.0500	0.00133	0.0500	0.0511	97	100	1	75-125			2	20
Beryllium	0.0500	0.0000769	0.0461	0.0473	92	94	1	75-125			3	20
Cadmium	0.0500	0.000108	0.0522	0.0539	104	108	1	75-125			3	20
Chromium	0.0500	0.000189	0.0468	0.0470	93	94	1	75-125			0	20
Copper	0.0500	0.0000538	0.0486	0.0485	97	97	1	75-125			0	20
Iron	5.00	37.2	41.4	41.6	83	89	1	75-125			1	20
Lead	0.0500	0.000147	0.0484	0.0485	97	97	1	75-125			0	20
Manganese	0.0500	12.3	12.3	12.2	0	0	1	75-125	V	V	1	20
Nickel	0.0500	0.0247	0.0729	0.0711	96	93	1	75-125			2	20
Selenium	0.0500	0.000357	0.0487	0.0506	97	100	1	75-125			4	20
Silver	0.0500	0.0000810	0.0497	0.0499	99	100	1	75-125			0	20
Thallium	0.0500	0.000113	0.0474	0.0478	95	95	1	75-125			1	20
Zinc	0.0500	0.0195	0.0654	0.0670	92	95	1	75-125			2	20

Method Blank (MB)

(MB) 11/03/15 20:21

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		0.500
Arsenic	ND		0.500
Beryllium	ND		0.500
Cadmium	ND		0.500
Chromium	ND		0.500
Copper	ND		1.00
Iron	ND		50.0
Lead	ND		0.500
Manganese	ND		1.00
Selenium	ND		0.500
Silver	ND		1.00
Thallium	ND		0.500
Zinc	ND		5.00

Method Blank (MB)

(MB) 11/04/15 10:21

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Nickel	ND		0.500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/03/15 20:23 • (LCSD) 11/03/15 20:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	111	106	111	106	80-120			5	20
Arsenic	100	96.1	95.6	96	96	80-120			1	20
Beryllium	100	105	105	105	105	80-120			0	20
Cadmium	100	101	102	101	102	80-120			1	20
Chromium	100	101	102	101	102	80-120			0	20
Copper	100	106	106	106	106	80-120			0	20
Iron	1000	1000	1020	100	102	80-120			1	20
Lead	100	102	101	102	101	80-120			1	20
Manganese	100	99.7	101	100	101	80-120			1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/03/15 20:23 • (LCSD) 11/03/15 20:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Selenium	100	102	96.5	102	97	80-120			5	20
Silver	100	106	103	106	103	80-120			3	20
Thallium	100	103	101	103	101	80-120			2	20
Zinc	100	109	106	109	106	80-120			3	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 10:23 • (LCSD) 11/04/15 10:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nickel	100	103	98.9	103	99	80-120			4	20

L797299-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/03/15 20:28 • (MS) 11/03/15 20:33 • (MSD) 11/03/15 20:35

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	20.0	0.0144	111	105	111	105	5	75-125			5	20
Arsenic	20.0	1.15	107	103	106	102	5	75-125			4	20
Beryllium	20.0	0.440	112	107	112	107	5	75-125			5	20
Cadmium	20.0	0.0277	114	109	114	109	5	75-125			4	20
Chromium	20.0	1.26	111	104	109	103	5	75-125			6	20
Copper	20.0	6.69	115	110	108	103	5	75-125			5	20
Iron	200	1090	1740	2580	65	149	5	75-125	J6	J3 J5	39	20
Lead	20.0	4.91	114	112	109	107	5	75-125			2	20
Manganese	20.0	22.5	132	131	110	109	5	75-125			1	20
Selenium	20.0	0.124	107	99.4	107	99	5	75-125			7	20
Silver	20.0	0.134	115	109	115	109	5	75-125			5	20
Thallium	20.0	0.0853	107	102	107	102	5	75-125			5	20
Zinc	20.0	6.97	116	112	109	105	5	75-125			3	20

L797299-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/04/15 10:27 • (MS) 11/04/15 10:39 • (MSD) 11/04/15 10:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nickel	20.0	2.16	113	103	111	101	5	75-125			9	20

Method Blank (MB)

(MB) 10/31/15 18:12

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Acrolein	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 10/31/15 18:12

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
trans-1,3-Dichloropropene	ND		0.00100
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
Methyl tert-butyl ether	ND		0.00100
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Naphthalene	ND		0.00500
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
Toluene	ND		0.00500
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
1,1,2-Trichlorotrifluoroethane	ND		0.00100
Trichloroethene	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*102*		*90.0-115*
(S) Dibromofluoromethane	*93.3*		*79.0-121*
(S) 4-Bromofluorobenzene	*100*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/31/15 16:39 • (LCSD) 10/31/15 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.113	0.146	90.5	117	28.7-175		J3	25.5	20.9
Acrolein	0.125	0.152	0.172	121	138	40.4-172			12.9	20
Acrylonitrile	0.125	0.130	0.155	104	124	58.2-145			17.1	20
Benzene	0.0250	0.0240	0.0241	95.9	96.4	73.0-122			0.550	20
Bromobenzene	0.0250	0.0256	0.0261	102	104	81.5-115			1.77	20
Bromodichloromethane	0.0250	0.0257	0.0257	103	103	75.5-121			0.180	20
Bromoform	0.0250	0.0312	0.0336	125	134	71.5-131		J4	7.44	20
Bromomethane	0.0250	0.0308	0.0327	123	131	22.4-187			6.00	20
n-Butylbenzene	0.0250	0.0260	0.0263	104	105	75.9-134			1.01	20
sec-Butylbenzene	0.0250	0.0269	0.0271	108	108	80.6-126			0.630	20
tert-Butylbenzene	0.0250	0.0265	0.0272	106	109	79.3-127			2.57	20
Carbon tetrachloride	0.0250	0.0245	0.0248	98.0	99.2	70.9-129			1.19	20
Chlorobenzene	0.0250	0.0272	0.0276	109	110	79.7-122			1.66	20
Chlorodibromomethane	0.0250	0.0290	0.0308	116	123	78.2-124			5.92	20
Chloroethane	0.0250	0.0253	0.0272	101	109	41.2-153			7.25	20
2-Chloroethyl vinyl ether	0.125	0.157	0.158	126	126	23.4-162			0.190	23.5
Chloroform	0.0250	0.0243	0.0246	97.2	98.6	73.2-125			1.47	20
Chloromethane	0.0250	0.0218	0.0220	87.1	88.1	55.8-134			1.07	20
2-Chlorotoluene	0.0250	0.0279	0.0289	112	115	76.4-125			3.37	20
4-Chlorotoluene	0.0250	0.0266	0.0270	107	108	81.5-121			1.49	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0273	0.0310	109	124	64.8-131			12.5	20
1,2-Dibromoethane	0.0250	0.0283	0.0294	113	118	79.8-122			3.84	20
Dibromomethane	0.0250	0.0265	0.0276	106	111	79.5-118			4.33	20
1,2-Dichlorobenzene	0.0250	0.0268	0.0271	107	109	84.7-118			1.15	20
1,3-Dichlorobenzene	0.0250	0.0278	0.0290	111	116	77.6-127			4.04	20
1,4-Dichlorobenzene	0.0250	0.0256	0.0261	102	104	82.2-114			2.04	20
Dichlorodifluoromethane	0.0250	0.0211	0.0213	84.2	85.3	56.0-134			1.28	20
1,1-Dichloroethane	0.0250	0.0242	0.0262	96.7	105	71.7-127			8.24	20
1,2-Dichloroethane	0.0250	0.0230	0.0238	92.0	95.2	65.3-126			3.38	20
1,1-Dichloroethene	0.0250	0.0275	0.0297	110	119	59.9-137			7.67	20
cis-1,2-Dichloroethene	0.0250	0.0251	0.0252	100	101	77.3-122			0.570	20
trans-1,2-Dichloroethene	0.0250	0.0253	0.0269	101	107	72.6-125			5.99	20
1,2-Dichloropropane	0.0250	0.0273	0.0271	109	108	77.4-125			0.710	20
1,1-Dichloropropene	0.0250	0.0243	0.0249	97.4	99.7	72.5-127			2.33	20
1,3-Dichloropropane	0.0250	0.0263	0.0278	105	111	80.6-115			5.68	20
cis-1,3-Dichloropropene	0.0250	0.0282	0.0283	113	113	77.7-124			0.650	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/31/15 16:39 • (LCSD) 10/31/15 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0288	0.0285	115	114	73.5-127			1.02	20
2,2-Dichloropropane	0.0250	0.0241	0.0241	96.4	96.5	61.3-134			0.130	20
Di-isopropyl ether	0.0250	0.0248	0.0274	99.2	110	65.1-135			10.1	20
Ethylbenzene	0.0250	0.0269	0.0273	108	109	80.9-121			1.35	20
Hexachloro-1,3-butadiene	0.0250	0.0311	0.0308	124	123	73.7-133			0.870	20
Isopropylbenzene	0.0250	0.0268	0.0273	107	109	81.6-124			1.91	20
p-Isopropyltoluene	0.0250	0.0271	0.0280	108	112	77.6-129			3.14	20
2-Butanone (MEK)	0.125	0.130	0.150	104	120	46.4-155			14.5	20
Methylene Chloride	0.0250	0.0228	0.0247	91.0	98.8	69.5-120			8.14	20
Methyl tert-butyl ether	0.0250	0.0250	0.0282	100	113	70.1-125			11.9	20
4-Methyl-2-pentanone (MIBK)	0.125	0.135	0.152	108	122	63.3-138			11.6	20
Naphthalene	0.0250	0.0267	0.0297	107	119	69.7-134			10.8	20
n-Propylbenzene	0.0250	0.0263	0.0266	105	107	81.9-122			1.21	20
Styrene	0.0250	0.0284	0.0291	114	116	79.9-124			2.48	20
1,1,1,2-Tetrachloroethane	0.0250	0.0283	0.0286	113	114	78.5-125			1.07	20
1,1,2,2-Tetrachloroethane	0.0250	0.0264	0.0294	106	118	79.3-123			10.9	20
Tetrachloroethene	0.0250	0.0289	0.0296	116	118	73.5-130			2.45	20
Toluene	0.0250	0.0254	0.0255	101	102	77.9-116			0.340	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0267	0.0279	107	112	62.0-141			4.32	20
1,2,3-Trichlorobenzene	0.0250	0.0312	0.0324	125	130	75.7-134			3.80	20
1,1,1-Trichloroethane	0.0250	0.0243	0.0249	97.4	99.5	71.1-129			2.22	20
1,2,4-Trichlorobenzene	0.0250	0.0305	0.0317	122	127	76.1-136			3.85	20
1,1,2-Trichloroethane	0.0250	0.0266	0.0276	106	110	81.6-120			3.61	20
Trichloroethene	0.0250	0.0268	0.0268	107	107	79.5-121			0.0800	20
Trichlorofluoromethane	0.0250	0.0245	0.0264	98.0	106	49.1-157			7.65	20
1,2,3-Trichloropropane	0.0250	0.0278	0.0295	111	118	74.9-124			5.95	20
1,2,3-Trimethylbenzene	0.0250	0.0253	0.0256	101	102	79.9-118			1.04	20
1,2,4-Trimethylbenzene	0.0250	0.0273	0.0276	109	110	79.0-122			1.21	20
1,3,5-Trimethylbenzene	0.0250	0.0264	0.0271	106	108	81.0-123			2.61	20
Vinyl chloride	0.0250	0.0240	0.0239	95.8	95.4	61.5-134			0.420	20
Xylenes, Total	0.0750	0.0806	0.0834	107	111	79.2-122			3.38	20
(S) Toluene-d8				*102*	*101*	*90.0-115*				
(S) Dibromofluoromethane				*94.9*	*96.5*	*79.0-121*				
(S) 4-Bromofluorobenzene				*98.9*	*101*	*80.1-120*				

L797711-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/31/15 21:21 • (MS) 10/31/15 19:25 • (MSD) 10/31/15 19:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.000515	0.0443	0.0435	35.0	34.4	1	25.0-156			1.79	21.5
Acrolein	0.125	ND	0.0803	0.0767	64.2	61.3	1	34.0-194			4.56	21.5
Acrylonitrile	0.125	ND	0.109	0.113	87.0	90.7	1	55.9-161			4.22	20
Benzene	0.0250	ND	0.0160	0.0165	64.0	66.2	1	58.6-133			3.36	20
Bromobenzene	0.0250	ND	0.0213	0.0209	85.4	83.8	1	70.6-125			1.92	20
Bromodichloromethane	0.0250	ND	0.0211	0.0216	84.6	86.5	1	69.2-127			2.24	20
Bromoform	0.0250	ND	0.0278	0.0268	111	107	1	66.3-140			3.68	20
Bromomethane	0.0250	ND	0.0141	0.0145	56.5	58.1	1	16.6-183			2.72	20.5
n-Butylbenzene	0.0250	ND	0.0215	0.0220	85.9	88.1	1	64.8-145			2.61	20
sec-Butylbenzene	0.0250	ND	0.0225	0.0226	90.0	90.4	1	66.8-139			0.440	20
tert-Butylbenzene	0.0250	ND	0.0226	0.0226	90.5	90.4	1	67.1-138			0.120	20
Carbon tetrachloride	0.0250	ND	0.0170	0.0175	67.9	70.0	1	60.6-139			3.02	20
Chlorobenzene	0.0250	ND	0.0216	0.0216	86.3	86.6	1	70.1-130			0.300	20
Chlorodibromomethane	0.0250	ND	0.0253	0.0254	101	102	1	71.6-132			0.270	20
Chloroethane	0.0250	ND	0.0146	0.0144	58.4	57.7	1	33.3-155			1.22	20
2-Chloroethyl vinyl ether	0.125	ND	0.000	0.000622	0.000	0.498	1	5.00-149	J6	J3 J6	200	40
Chloroform	0.0250	ND	0.0193	0.0198	77.0	79.0	1	66.1-133			2.56	20
Chloromethane	0.0250	ND	0.00898	0.00889	35.9	35.6	1	40.7-139	J6	J6	1.03	20
2-Chlorotoluene	0.0250	ND	0.0231	0.0228	92.2	91.1	1	66.9-134			1.23	20
4-Chlorotoluene	0.0250	ND	0.0219	0.0221	87.8	88.2	1	66.8-134			0.510	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0234	0.0238	93.7	95.3	1	63.9-142			1.69	20.2
1,2-Dibromoethane	0.0250	ND	0.0220	0.0226	88.2	90.2	1	73.8-131			2.30	20
1,2-Dichlorobenzene	0.0250	ND	0.0229	0.0231	91.6	92.3	1	77.4-127			0.780	20
Dibromomethane	0.0250	ND	0.0198	0.0205	79.2	82.1	1	72.8-127			3.65	20
1,3-Dichlorobenzene	0.0250	ND	0.0236	0.0238	94.2	95.0	1	67.9-136			0.870	20
1,4-Dichlorobenzene	0.0250	ND	0.0213	0.0217	85.1	86.6	1	74.4-123			1.83	20
Dichlorodifluoromethane	0.0250	ND	0.0126	0.0127	50.4	50.8	1	42.2-146			0.680	20
1,1-Dichloroethane	0.0250	ND	0.0176	0.0196	70.5	78.3	1	64.0-134			10.5	20
1,2-Dichloroethane	0.0250	ND	0.0174	0.0175	69.8	69.9	1	60.7-132			0.250	20
1,1-Dichloroethene	0.0250	ND	0.0157	0.0168	62.9	67.3	1	48.8-144			6.75	20
cis-1,2-Dichloroethene	0.0250	ND	0.0184	0.0194	73.7	77.6	1	60.6-136			5.18	20
trans-1,2-Dichloroethene	0.0250	ND	0.0144	0.0151	57.5	60.3	1	61.0-132	J6	J6	4.76	20
1,2-Dichloropropane	0.0250	ND	0.0208	0.0209	83.1	83.6	1	69.7-130			0.500	20
1,1-Dichloropropene	0.0250	ND	0.0146	0.0149	58.5	59.8	1	61.5-136	J6	J6	2.14	20
cis-1,3-Dichloropropene	0.0250	ND	0.0210	0.0216	84.0	86.3	1	71.1-129			2.80	20
1,3-Dichloropropane	0.0250	ND	0.0215	0.0215	86.2	85.9	1	74.3-123			0.310	20

L797711-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/31/15 21:21 • (MS) 10/31/15 19:25 • (MSD) 10/31/15 19:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0225	0.0217	89.9	87.0	1	66.3-136			3.32	20
2,2-Dichloropropane	0.0250	ND	0.0181	0.0185	72.2	73.9	1	54.9-142			2.28	20
Di-isopropyl ether	0.0250	ND	0.0198	0.0213	79.3	85.2	1	59.9-140			7.10	20
Ethylbenzene	0.0250	ND	0.0206	0.0205	82.5	82.2	1	62.7-136			0.460	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0256	0.0269	103	108	1	61.1-144			4.98	20.1
Isopropylbenzene	0.0250	ND	0.0219	0.0219	87.5	87.4	1	67.4-136			0.0700	20
p-Isopropyltoluene	0.0250	ND	0.0231	0.0228	92.3	91.4	1	62.8-143			0.990	20
2-Butanone (MEK)	0.125	ND	0.0735	0.0715	58.8	57.2	1	45.0-156			2.77	20.8
Methylene Chloride	0.0250	ND	0.0158	0.0165	63.2	66.1	1	61.5-125			4.39	20
Methyl tert-butyl ether	0.0250	ND	0.0213	0.0220	85.1	88.1	1	61.4-136			3.51	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.115	0.112	92.4	89.3	1	60.7-150			3.39	20
Naphthalene	0.0250	ND	0.0227	0.0238	90.9	95.4	1	61.8-143			4.83	20
n-Propylbenzene	0.0250	ND	0.0212	0.0214	84.7	85.5	1	63.2-139			0.980	20
Styrene	0.0250	ND	0.0230	0.0230	92.1	92.0	1	68.2-133			0.0900	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0244	0.0249	97.8	99.5	1	70.5-132			1.78	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0252	0.0244	101	97.8	1	64.9-145			3.07	20
Tetrachloroethene	0.0250	ND	0.0352	0.0344	141	138	1	57.4-141			2.46	20
Toluene	0.0250	ND	0.0180	0.0183	71.8	73.3	1	67.8-124			2.09	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0186	0.0192	74.4	76.8	1	53.7-150			3.19	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0263	0.0271	105	108	1	65.7-143			3.00	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0252	0.0265	101	106	1	67.0-146			4.91	20
1,1,1-Trichloroethane	0.0250	ND	0.0180	0.0184	71.9	73.6	1	58.7-134			2.36	20
1,1,2-Trichloroethane	0.0250	ND	0.0230	0.0224	91.8	89.6	1	74.1-130			2.45	20
Trichloroethene	0.0250	ND	0.0184	0.0186	73.6	74.3	1	48.9-148			0.920	20
Trichlorofluoromethane	0.0250	ND	0.0165	0.0171	66.1	68.3	1	39.9-165			3.28	20
1,2,3-Trichloropropane	0.0250	ND	0.0250	0.0237	100	94.9	1	71.5-134			5.28	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0207	0.0213	82.7	85.4	1	62.7-133			3.15	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0224	0.0223	89.6	89.2	1	60.5-137			0.480	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0218	0.0216	87.3	86.5	1	67.9-134			0.900	20
Vinyl chloride	0.0250	ND	0.0113	0.0112	45.2	45.0	1	44.3-143			0.560	20
Xylenes, Total	0.0750	ND	0.0627	0.0633	83.6	84.4	1	65.6-133			0.950	20
(S) Toluene-d8					*101*	*102*		*90.0-115*				
(S) Dibromofluoromethane					*93.1*	*93.6*		*79.0-121*				
(S) 4-Bromofluorobenzene					*100*	*99.6*		*80.1-120*				

Method Blank (MB)

(MB) 11/02/15 19:53

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Acetone	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100
trans-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 11/02/15 19:53

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*99.7*		*88.7-115*
(S) Dibromofluoromethane	*105*		*76.3-123*
(S) 4-Bromofluorobenzene	*92.8*		*69.7-129*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/02/15 17:50 • (LCSD) 11/02/15 18:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0775	0.0866	62.0	69.3	25.3-178			11.1	22.9
Acrylonitrile	0.125	0.0759	0.102	60.7	81.9	57.8-143		J3	29.7	20
Benzene	0.0250	0.0256	0.0261	102	104	72.6-120			1.92	20
Bromobenzene	0.0250	0.0244	0.0249	97.4	99.7	80.3-115			2.30	20
Bromodichloromethane	0.0250	0.0243	0.0251	97.4	101	75.3-119			3.25	20
Bromoform	0.0250	0.0288	0.0295	115	118	69.1-135			2.40	20
Bromomethane	0.0250	0.0246	0.0257	98.5	103	23.0-191			4.42	20
n-Butylbenzene	0.0250	0.0234	0.0249	93.4	99.6	74.2-134			6.42	20
sec-Butylbenzene	0.0250	0.0266	0.0277	106	111	77.8-129			4.15	20
tert-Butylbenzene	0.0250	0.0271	0.0279	108	112	77.2-129			2.88	20
Carbon tetrachloride	0.0250	0.0263	0.0273	105	109	69.4-129			3.66	20
Chlorobenzene	0.0250	0.0289	0.0293	115	117	78.9-122			1.35	20
Chlorodibromomethane	0.0250	0.0291	0.0293	116	117	76.4-126			0.790	20
Chloroethane	0.0250	0.0225	0.0239	90.2	95.4	47.2-147			5.61	20
2-Chloroethyl vinyl ether	0.125	0.111	0.115	89.0	91.7	16.7-162			2.96	23.7
Chloroform	0.0250	0.0255	0.0262	102	105	73.3-122			2.74	20
Chloromethane	0.0250	0.0222	0.0232	88.6	92.7	53.1-135			4.51	20
2-Chlorotoluene	0.0250	0.0280	0.0286	112	115	74.6-127			2.37	20
4-Chlorotoluene	0.0250	0.0253	0.0262	101	105	79.5-123			3.45	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0219	0.0236	87.6	94.3	64.9-131			7.31	20
1,2-Dibromoethane	0.0250	0.0273	0.0278	109	111	78.7-123			1.58	20
Dibromomethane	0.0250	0.0256	0.0262	103	105	78.5-117			2.02	20
1,2-Dichlorobenzene	0.0250	0.0251	0.0256	100	103	83.6-119			2.18	20
1,3-Dichlorobenzene	0.0250	0.0277	0.0287	111	115	75.9-129			3.54	20
1,4-Dichlorobenzene	0.0250	0.0256	0.0260	102	104	81.0-115			1.77	20
Dichlorodifluoromethane	0.0250	0.0229	0.0245	91.6	98.0	50.9-139			6.83	20
1,1-Dichloroethane	0.0250	0.0246	0.0256	98.4	102	71.7-125			3.97	20
1,2-Dichloroethane	0.0250	0.0240	0.0245	96.0	97.9	67.2-121			1.93	20
1,1-Dichloroethene	0.0250	0.0268	0.0285	107	114	60.6-133			6.40	20
cis-1,2-Dichloroethene	0.0250	0.0272	0.0279	109	112	76.1-121			2.77	20
trans-1,2-Dichloroethene	0.0250	0.0267	0.0279	107	111	70.7-124			4.19	20
1,2-Dichloropropane	0.0250	0.0245	0.0248	97.9	99.3	76.9-123			1.45	20
1,1-Dichloropropene	0.0250	0.0258	0.0266	103	107	71.2-126			3.11	20
1,3-Dichloropropane	0.0250	0.0257	0.0265	103	106	80.3-114			3.06	20
cis-1,3-Dichloropropene	0.0250	0.0253	0.0258	101	103	77.3-123			2.08	20
trans-1,3-Dichloropropene	0.0250	0.0252	0.0258	101	103	73.0-127			2.05	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/02/15 17:50 • (LCSD) 11/02/15 18:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	0.0240	0.0260	96.0	104	61.9-132			7.88	20
Di-isopropyl ether	0.0250	0.0226	0.0235	90.3	93.9	67.2-131			3.91	20
Ethylbenzene	0.0250	0.0282	0.0284	113	114	78.6-124			0.800	20
Hexachloro-1,3-butadiene	0.0250	0.0227	0.0245	90.8	98.2	69.2-136			7.81	20
Isopropylbenzene	0.0250	0.0265	0.0273	106	109	79.4-126			2.74	20
p-Isopropyltoluene	0.0250	0.0269	0.0281	107	113	75.4-132			4.56	20
2-Butanone (MEK)	0.125	0.0768	0.0835	61.4	66.8	44.5-154			8.40	21.3
Methylene Chloride	0.0250	0.0234	0.0246	93.6	98.6	68.2-119			5.17	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0886	0.0949	70.9	75.9	61.1-138			6.83	20
Methyl tert-butyl ether	0.0250	0.0219	0.0229	87.7	91.8	70.2-122			4.56	20
Naphthalene	0.0250	0.0214	0.0235	85.6	94.2	69.9-132			9.54	20
n-Propylbenzene	0.0250	0.0260	0.0270	104	108	80.2-124			3.77	20
Styrene	0.0250	0.0273	0.0281	109	113	79.4-124			2.92	20
1,1,1,2-Tetrachloroethane	0.0250	0.0289	0.0289	116	116	76.7-127			0.0600	20
1,1,2,2-Tetrachloroethane	0.0250	0.0244	0.0255	97.6	102	78.8-124			4.59	20
Tetrachloroethene	0.0250	0.0301	0.0306	120	123	71.1-133			1.69	20
Toluene	0.0250	0.0256	0.0263	103	105	76.7-116			2.68	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0284	0.0292	114	117	62.6-138			2.48	20
1,2,3-Trichlorobenzene	0.0250	0.0230	0.0247	91.8	98.6	72.5-137			7.16	20
1,2,4-Trichlorobenzene	0.0250	0.0229	0.0247	91.7	98.9	74.0-137			7.55	20
1,1,1-Trichloroethane	0.0250	0.0258	0.0267	103	107	69.9-127			3.27	20
1,1,2-Trichloroethane	0.0250	0.0268	0.0276	107	111	81.9-119			3.23	20
Trichloroethene	0.0250	0.0281	0.0292	112	117	77.2-122			3.87	20
Trichlorofluoromethane	0.0250	0.0260	0.0276	104	110	51.5-151			5.99	20
1,2,3-Trichloropropane	0.0250	0.0255	0.0264	102	106	74.0-124			3.60	20
1,2,4-Trimethylbenzene	0.0250	0.0260	0.0269	104	108	77.1-124			3.51	20
1,3,5-Trimethylbenzene	0.0250	0.0258	0.0269	103	107	79.0-125			4.00	20
Vinyl chloride	0.0250	0.0226	0.0243	90.5	97.1	58.4-134			7.06	20
Xylenes, Total	0.0750	0.0822	0.0842	110	112	78.1-123			2.43	20
(S) Toluene-d8				*96.1*	*96.3*	*88.7-115*				
(S) Dibromofluoromethane				*96.8*	*98.4*	*76.3-123*				
(S) 4-Bromofluorobenzene				*96.8*	*97.1*	*69.7-129*				

L797915-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/02/15 22:17 • (MS) 11/02/15 20:45 • (MSD) 11/02/15 21:05

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	ND	4.54	3.91	72.7	62.5	50	10.0-130			15.1	31.5
Acrylonitrile	0.125	ND	5.33	5.93	85.2	94.8	50	39.3-152			10.7	27.2
Benzene	0.0250	0.0307	1.20	1.23	93.8	95.7	50	47.8-131			1.95	22.8
Bromobenzene	0.0250	ND	1.17	1.16	94.0	92.6	50	40.0-130			1.46	27.4
Bromodichloromethane	0.0250	ND	1.21	1.19	96.8	95.6	50	50.6-128			1.26	22.8
Bromoform	0.0250	ND	1.14	1.10	90.9	88.0	50	43.3-139			3.35	25.9
Bromomethane	0.0250	ND	1.08	1.08	86.7	86.8	50	5.00-189			0.0700	26.7
n-Butylbenzene	0.0250	0.980	2.31	2.40	107	113	50	23.6-146			3.63	39.2
sec-Butylbenzene	0.0250	0.270	1.51	1.50	99.6	98.6	50	31.0-142			0.760	34.7
tert-Butylbenzene	0.0250	0.0258	1.17	1.16	91.4	90.6	50	36.9-142			0.850	31.7
Carbon tetrachloride	0.0250	ND	1.24	1.24	99.4	99.2	50	46.0-140			0.210	27.2
Chlorobenzene	0.0250	ND	1.14	1.11	91.0	88.5	50	44.1-134			2.73	25.7
Chlorodibromomethane	0.0250	ND	1.12	1.10	89.7	88.3	50	49.7-134			1.50	24
Chloroethane	0.0250	ND	0.525	0.448	42.0	35.9	50	5.00-164			15.9	28.4
2-Chloroethyl vinyl ether	0.125	ND	5.39	5.69	86.2	91.0	50	5.00-159			5.44	40
Chloroform	0.0250	ND	1.35	1.34	108	107	50	51.2-133			0.180	22.8
Chloromethane	0.0250	ND	0.706	0.772	56.5	61.8	50	31.4-141			8.97	24.6
2-Chlorotoluene	0.0250	ND	1.20	1.13	95.8	90.7	50	36.1-137			5.45	28.9
4-Chlorotoluene	0.0250	ND	1.08	1.06	86.7	84.4	50	35.4-137			2.63	29.8
1,2-Dibromo-3-Chloropropane	0.0250	ND	1.10	1.16	87.7	93.0	50	40.4-138			5.84	30.8
1,2-Dibromoethane	0.0250	ND	1.02	1.03	81.5	82.6	50	50.2-133			1.40	23.6
Dibromomethane	0.0250	ND	1.23	1.24	98.7	99.3	50	52.4-128			0.510	23
1,2-Dichlorobenzene	0.0250	ND	1.24	1.28	98.9	103	50	34.6-139			3.61	29.9
1,3-Dichlorobenzene	0.0250	0.00158	1.25	1.20	99.8	95.6	50	28.4-142			4.29	31.2
1,4-Dichlorobenzene	0.0250	0.00314	1.22	1.26	97.4	100	50	35.0-133			2.97	31.1
Dichlorodifluoromethane	0.0250	ND	0.826	0.848	66.1	67.8	50	31.2-144			2.59	30.2
1,1-Dichloroethane	0.0250	ND	1.21	1.26	96.6	100	50	49.1-136			3.85	22.9
1,2-Dichloroethane	0.0250	ND	1.15	1.16	91.6	92.8	50	47.1-129			1.29	22.7
1,1-Dichloroethene	0.0250	ND	1.15	1.21	91.7	97.1	50	36.1-142			5.75	25.6
cis-1,2-Dichloroethene	0.0250	ND	1.32	1.31	105	105	50	50.6-133			0.460	23
trans-1,2-Dichloroethene	0.0250	ND	1.10	1.11	87.6	88.8	50	43.8-135			1.32	24.8
1,2-Dichloropropane	0.0250	ND	1.18	1.20	94.2	95.8	50	50.3-134			1.68	22.7
1,1-Dichloropropene	0.0250	ND	1.11	1.14	89.1	90.8	50	43.0-137			1.91	26.4
1,3-Dichloropropane	0.0250	ND	1.01	1.03	80.8	82.1	50	51.4-127			1.58	23.1
cis-1,3-Dichloropropene	0.0250	ND	1.21	1.21	97.0	97.2	50	48.4-134			0.130	23.6
trans-1,3-Dichloropropene	0.0250	ND	1.19	1.22	95.2	97.3	50	46.6-135			2.13	25.3

L797915-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/02/15 22:17 • (MS) 11/02/15 20:45 • (MSD) 11/02/15 21:05

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	ND	1.04	1.11	83.4	88.6	50	45.2-141			6.10	26.6
Di-isopropyl ether	0.0250	ND	1.18	1.26	94.4	101	50	46.7-140			6.49	23.5
Ethylbenzene	0.0250	0.432	1.65	1.58	97.6	91.7	50	44.8-135			4.60	26.9
Hexachloro-1,3-butadiene	0.0250	0.0284	1.23	1.22	96.3	95.0	50	10.0-149			1.30	40
Isopropylbenzene	0.0250	0.239	1.39	1.35	91.9	89.1	50	41.9-139			2.58	29.3
p-Isopropyltoluene	0.0250	0.261	1.55	1.52	103	101	50	27.3-146			2.16	35.1
2-Butanone (MEK)	0.125	ND	4.31	4.75	69.0	76.0	50	23.9-170			9.74	28.3
Methylene Chloride	0.0250	ND	1.12	1.15	89.2	91.9	50	46.7-125			2.90	22.2
4-Methyl-2-pentanone (MIBK)	0.125	ND	6.66	7.14	106	114	50	42.4-146			7.01	26.7
Methyl tert-butyl ether	0.0250	0.00250	1.11	1.18	88.4	94.3	50	50.4-131			6.44	24.8
Naphthalene	0.0250	1.23	2.64	2.78	113	125	50	18.4-145			5.38	34
n-Propylbenzene	0.0250	0.918	2.29	2.20	110	102	50	35.2-139			4.13	31.9
Styrene	0.0250	ND	1.14	1.11	91.3	88.5	50	39.7-137			3.13	28.2
1,1,1,2-Tetrachloroethane	0.0250	ND	1.13	1.10	90.5	88.1	50	48.8-136			2.68	25.5
1,1,2,2-Tetrachloroethane	0.0250	ND	1.61	1.66	129	133	50	45.7-140			3.16	26.4
Tetrachloroethene	0.0250	ND	1.01	0.963	80.5	77.0	50	37.7-140			4.46	29.2
Toluene	0.0250	0.0212	1.18	1.18	92.8	92.7	50	47.8-127			0.0600	24.3
1,1,2-Trichlorotrifluoroethane	0.0250	ND	1.38	1.39	110	111	50	35.7-146			1.27	28.8
1,2,3-Trichlorobenzene	0.0250	ND	1.35	1.33	108	106	50	10.0-150			1.90	38.5
1,2,4-Trichlorobenzene	0.0250	ND	1.44	1.40	115	112	50	10.0-153			2.81	39.3
1,1,1-Trichloroethane	0.0250	ND	1.24	1.23	99.3	98.6	50	49.0-138			0.710	25.3
1,1,2-Trichloroethane	0.0250	ND	1.50	1.51	120	121	50	52.3-132			0.530	23.4
Trichloroethene	0.0250	ND	1.26	1.21	101	96.8	50	48.0-132			4.20	24.8
Trichlorofluoromethane	0.0250	ND	0.568	0.441	45.4	35.3	50	12.8-169			25.1	29.7
1,2,3-Trichloropropane	0.0250	ND	1.18	1.18	94.7	94.5	50	44.4-138			0.210	26.3
1,2,4-Trimethylbenzene	0.0250	3.22	5.58	5.44	189	177	50	32.9-139	J5	J5	2.60	30.6
1,3,5-Trimethylbenzene	0.0250	0.859	2.23	2.22	110	109	50	37.1-138			0.350	30.6
Vinyl chloride	0.0250	ND	0.788	0.837	63.0	66.9	50	32.0-146			6.04	26.3
Xylenes, Total	0.0750	0.593	4.04	3.90	91.8	88.1	50	42.7-135			3.47	26.6
(S) Toluene-d8					*96.8*	*98.0*		*88.7-115*				
(S) Dibromofluoromethane					*101*	*102*		*76.3-123*				
(S) 4-Bromofluorobenzene					*94.7*	*92.5*		*69.7-129*				

Method Blank (MB)

(MB) 11/03/15 11:28

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*93.6*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/03/15 10:16 • (LCSD) 11/03/15 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0432	0.0397	86.3	79.4	70.0-130			8.32	25
(S) Toluene-d8				*94.7*	*93.7*	*70.0-130*				

L797941-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/06/15 18:19 • (MS) 11/06/15 20:16 • (MSD) 11/06/15 20:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.00119	0.0497	0.0567	97.1	111	1	0.000-200			13.2	42
(S) Toluene-d8					*100*	*100*		*70.0-130*				

Method Blank (MB)

(MB) 11/06/15 10:46

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*104*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/06/15 09:48 • (LCSD) 11/06/15 10:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0403	0.0433	80.7	86.7	70.0-130			7.16	25
(S) Toluene-d8				*100*	*100*	*70.0-130*				

L798115-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/06/15 11:06 • (MS) 11/06/15 14:39 • (MSD) 11/06/15 14:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.000890	0.262	0.273	104	109	5	0.000-200			4.25	25
(S) Toluene-d8					*99.7*	*105*		*70.0-130*				

Method Blank (MB)

(MB) 11/04/15 12:52

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Acenaphthene	ND		0.0330
Acenaphthylene	ND		0.0330
Anthracene	ND		0.0330
Benzidine	ND		0.333
Benzo(a)anthracene	ND		0.0330
Benzo(b)fluoranthene	ND		0.0330
Benzo(k)fluoranthene	ND		0.0330
Benzo(g,h,i)perylene	ND		0.0330
Benzo(a)pyrene	ND		0.0330
Bis(2-chlorethoxy)methane	ND		0.333
Bis(2-chloroethyl)ether	ND		0.333
Bis(2-chloroisopropyl)ether	ND		0.333
4-Bromophenyl-phenylether	ND		0.333
2-Chloronaphthalene	ND		0.0330
4-Chlorophenyl-phenylether	ND		0.333
Chrysene	ND		0.0330
Dibenz(a,h)anthracene	ND		0.0330
3,3-Dichlorobenzidine	ND		0.333
2,4-Dinitrotoluene	ND		0.333
2,6-Dinitrotoluene	ND		0.333
Fluoranthene	ND		0.0330
Fluorene	ND		0.0330
Hexachlorobenzene	ND		0.333
Hexachloro-1,3-butadiene	ND		0.333
Hexachlorocyclopentadiene	ND		0.333
Hexachloroethane	ND		0.333
Indeno(1,2,3-cd)pyrene	ND		0.0330
Isophorone	ND		0.333
Naphthalene	ND		0.0330
Nitrobenzene	ND		0.333
n-Nitrosodimethylamine	ND		0.333
n-Nitrosodiphenylamine	ND		0.333
n-Nitrosodi-n-propylamine	ND		0.333
Phenanthrene	ND		0.0330
Benzylbutyl phthalate	ND		0.333
Bis(2-ethylhexyl)phthalate	ND		0.333

Method Blank (MB)

(MB) 11/04/15 12:52

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Di-n-butyl phthalate	ND		0.333
Diethyl phthalate	ND		0.333
Dimethyl phthalate	ND		0.333
Di-n-octyl phthalate	ND		0.333
Pyrene	ND		0.0330
1,2,4-Trichlorobenzene	ND		0.333
4-Chloro-3-methylphenol	ND		0.333
2-Chlorophenol	ND		0.333
2,4-Dichlorophenol	ND		0.333
2,4-Dimethylphenol	ND		0.333
4,6-Dinitro-2-methylphenol	ND		0.333
2,4-Dinitrophenol	ND		0.333
2-Nitrophenol	ND		0.333
4-Nitrophenol	ND		0.333
Pentachlorophenol	ND		0.333
Phenol	ND		0.333
2,4,6-Trichlorophenol	ND		0.333
(S) Nitrobenzene-d5	*66.1*		*21.9-129*
(S) 2-Fluorobiphenyl	*63.6*		*34.9-129*
(S) p-Terphenyl-d14	*54.6*		*21.5-128*
(S) Phenol-d5	*61.7*		*26.3-121*
(S) 2-Fluorophenol	*61.7*		*21.1-116*
(S) 2,4,6-Tribromophenol	*59.7*		*21.6-142*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 12:05 • (LCSD) 11/04/15 12:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.427	0.438	64.0	65.7	48.9-107			2.57	20
Acenaphthylene	0.667	0.449	0.466	67.4	69.8	49.2-111			3.60	20
Anthracene	0.667	0.432	0.450	64.7	67.5	52.0-112			4.11	20
Benzidine	0.667	0.0301	0.0222	4.51	3.33	0.000-48.0			30.2	40
Benzo(a)anthracene	0.667	0.395	0.417	59.3	62.5	52.3-106			5.28	20
Benzo(b)fluoranthene	0.667	0.424	0.395	63.6	59.2	51.3-106			7.15	20
Benzo(k)fluoranthene	0.667	0.376	0.387	56.4	58.0	52.9-107			2.77	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 12:05 • (LCSD) 11/04/15 12:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.667	0.429	0.431	64.3	64.7	45.8-108			0.670	20
Benzo(a)pyrene	0.667	0.407	0.410	61.0	61.5	51.9-106			0.920	20
Bis(2-chlorethoxy)methane	0.667	0.398	0.423	59.6	63.3	44.9-108			6.02	20
Bis(2-chloroethyl)ether	0.667	0.321	0.427	48.2	64.0	32.5-112		J3	28.3	26
Bis(2-chloroisopropyl)ether	0.667	0.363	0.467	54.4	70.0	40.4-99.0		J3	25.2	20.7
4-Bromophenyl-phenylether	0.667	0.441	0.464	66.1	69.6	51.4-110			5.17	20
2-Chloronaphthalene	0.667	0.457	0.477	68.6	71.6	47.1-105			4.25	20
4-Chlorophenyl-phenylether	0.667	0.444	0.449	66.6	67.3	48.1-108			1.12	20
Chrysene	0.667	0.373	0.402	55.9	60.2	54.4-110			7.42	20
Dibenz(a,h)anthracene	0.667	0.415	0.415	62.2	62.2	45.7-111			0.0600	20
3,3-Dichlorobenzidine	0.667	0.345	0.365	51.8	54.7	21.0-101			5.57	22
2,4-Dinitrotoluene	0.667	0.507	0.522	76.0	78.3	53.0-112			2.97	20
2,6-Dinitrotoluene	0.667	0.518	0.530	77.6	79.5	51.6-110			2.41	20
Fluoranthene	0.667	0.420	0.435	63.0	65.2	53.7-110			3.53	20
Fluorene	0.667	0.444	0.461	66.5	69.1	51.1-109			3.75	20
Hexachlorobenzene	0.667	0.454	0.481	68.1	72.2	43.2-104			5.83	20.1
Hexachloro-1,3-butadiene	0.667	0.356	0.443	53.4	66.5	41.5-112		J3	21.8	20
Hexachlorocyclopentadiene	0.667	0.278	0.305	41.7	45.7	13.5-123			9.16	20.7
Hexachloroethane	0.667	0.298	0.434	44.6	65.1	36.2-103		J3	37.3	22.7
Indeno(1,2,3-cd)pyrene	0.667	0.430	0.434	64.5	65.1	47.5-109			0.890	20
Isophorone	0.667	0.475	0.495	71.2	74.1	28.8-104			4.07	20
Naphthalene	0.667	0.361	0.419	54.0	62.8	43.4-103			15.0	20
Nitrobenzene	0.667	0.411	0.479	61.7	71.8	40.7-109			15.2	21
n-Nitrosodimethylamine	0.667	0.296	0.436	44.5	65.3	18.1-122		J3	38.1	23.5
n-Nitrosodiphenylamine	0.667	0.422	0.443	63.3	66.4	48.8-107			4.82	20
n-Nitrosodi-n-propylamine	0.667	0.433	0.471	65.0	70.5	43.3-109			8.20	20
Phenanthrene	0.667	0.408	0.425	61.1	63.7	51.6-107			4.16	20
Benzylbutyl phthalate	0.667	0.407	0.442	61.0	66.3	47.5-115			8.31	20
Bis(2-ethylhexyl)phthalate	0.667	0.425	0.444	63.7	66.6	48.1-116			4.44	20.5
Di-n-butyl phthalate	0.667	0.451	0.464	67.6	69.5	49.7-113			2.85	20
Diethyl phthalate	0.667	0.469	0.500	70.3	74.9	52.0-112			6.31	20
Dimethyl phthalate	0.667	0.473	0.487	70.9	72.9	51.4-108			2.82	20
Di-n-octyl phthalate	0.667	0.417	0.452	62.6	67.8	49.6-112			7.99	22
Pyrene	0.667	0.350	0.375	52.4	56.2	47.1-108			6.96	20
1,2,4-Trichlorobenzene	0.667	0.349	0.409	52.4	61.4	39.8-100			15.8	20
4-Chloro-3-methylphenol	0.667	0.470	0.472	70.4	70.8	51.1-113			0.480	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 12:05 • (LCSD) 11/04/15 12:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.667	0.351	0.444	52.6	66.6	40.8-103		J3	23.4	20
2,4-Dichlorophenol	0.667	0.439	0.458	65.8	68.7	46.2-109			4.36	20
2,4-Dimethylphenol	0.667	0.437	0.434	65.5	65.1	42.2-110			0.530	20
4,6-Dinitro-2-methylphenol	0.667	0.455	0.449	68.2	67.3	23.1-119			1.35	23.7
2,4-Dinitrophenol	0.667	0.288	0.248	43.1	37.2	10.0-105			14.7	36.5
2-Nitrophenol	0.667	0.443	0.503	66.4	75.3	44.2-113			12.6	20.9
4-Nitrophenol	0.667	0.473	0.484	71.0	72.6	34.8-109			2.34	20
Pentachlorophenol	0.667	0.418	0.409	62.7	61.3	16.2-102			2.27	22.9
Phenol	0.667	0.393	0.459	58.9	68.8	41.5-106			15.5	20
2,4,6-Trichlorophenol	0.667	0.460	0.464	69.0	69.5	44.4-108			0.780	20
(S) Nitrobenzene-d5				*59.9*	*69.5*	*21.9-129*				
(S) 2-Fluorobiphenyl				*65.3*	*69.0*	*34.9-129*				
(S) p-Terphenyl-d14				*56.0*	*61.8*	*21.5-128*				
(S) Phenol-d5				*60.1*	*69.5*	*26.3-121*				
(S) 2-Fluorophenol				*51.3*	*70.5*	*21.1-116*				
(S) 2,4,6-Tribromophenol				*74.5*	*75.5*	*21.6-142*				

L798051-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/04/15 15:15 • (MS) 11/04/15 15:39 • (MSD) 11/04/15 16:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	ND	0.443	0.460	66.4	69.0	1	32.2-134			3.78	27.3
Acenaphthylene	0.667	ND	0.467	0.491	70.1	73.6	1	38.7-129			4.85	25.9
Anthracene	0.667	ND	0.414	0.450	62.0	67.4	1	32.3-137			8.34	28.4
Benzidine	0.667	ND	0.000	0.000	0.000	0.000	1	0.000-49.9			0.000	40
Benzo(a)anthracene	0.667	0.00785	0.370	0.374	54.3	54.9	1	33.3-124			1.19	29
Benzo(b)fluoranthene	0.667	0.00751	0.355	0.349	52.0	51.2	1	23.3-133			1.58	30.3
Benzo(k)fluoranthene	0.667	0.00456	0.335	0.301	49.6	44.4	1	31.0-129			10.9	26.7
Benzo(g,h,i)perylene	0.667	0.00591	0.298	0.307	43.8	45.2	1	10.0-127			2.96	31.9
Benzo(a)pyrene	0.667	0.00663	0.343	0.357	50.4	52.6	1	28.2-128			4.11	28.4
Bis(2-chlorethoxy)methane	0.667	ND	0.431	0.444	64.6	66.6	1	35.0-132			3.04	26.1
Bis(2-chloroethyl)ether	0.667	ND	0.410	0.431	61.5	64.6	1	28.8-128			4.99	33.6
Bis(2-chloroisopropyl)ether	0.667	ND	0.462	0.477	69.2	71.5	1	31.8-118			3.27	31.7
4-Bromophenyl-phenylether	0.667	ND	0.421	0.463	63.0	69.4	1	39.0-130			9.55	26
2-Chloronaphthalene	0.667	ND	0.483	0.501	72.4	75.1	1	37.5-123			3.62	26.5

L798051-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/04/15 15:15 • (MS) 11/04/15 15:39 • (MSD) 11/04/15 16:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	ND	0.426	0.458	63.9	68.7	1	37.9-123			7.15	25.9
Chrysene	0.667	0.00612	0.357	0.367	52.6	54.0	1	36.3-129			2.72	28
Dibenz(a,h)anthracene	0.667	ND	0.303	0.306	45.4	45.9	1	10.5-128			1.23	29.5
3,3-Dichlorobenzidine	0.667	ND	0.0769	0.122	11.5	18.4	1	10.0-129		J3	45.7	40
2,4-Dinitrotoluene	0.667	ND	0.541	0.568	81.1	85.1	1	27.8-147			4.79	29.7
2,6-Dinitrotoluene	0.667	ND	0.552	0.581	82.8	87.0	1	36.5-137			5.05	29.7
Fluoranthene	0.667	0.0122	0.413	0.444	60.2	64.7	1	27.9-138			7.08	26.9
Fluorene	0.667	ND	0.446	0.476	66.8	71.4	1	34.0-133			6.60	27.1
Hexachlorobenzene	0.667	ND	0.427	0.467	64.0	70.0	1	34.4-116			8.99	25.4
Hexachloro-1,3-butadiene	0.667	ND	0.426	0.452	63.9	67.8	1	36.5-125			5.98	29.7
Hexachlorocyclopentadiene	0.667	ND	0.0873	0.0748	13.1	11.2	1	10.0-124			15.5	37.5
Hexachloroethane	0.667	ND	0.343	0.347	51.5	52.0	1	11.3-143			0.880	31.9
Indeno(1,2,3-cd)pyrene	0.667	0.00525	0.318	0.325	46.9	47.9	1	10.0-128			2.00	31.5
Isophorone	0.667	ND	0.504	0.522	75.6	78.3	1	25.7-116			3.46	27.7
Naphthalene	0.667	ND	0.434	0.447	65.0	67.0	1	36.4-121			3.03	27.2
Nitrobenzene	0.667	ND	0.486	0.504	72.8	75.6	1	30.9-134			3.83	27.8
n-Nitrosodimethylamine	0.667	ND	0.384	0.412	57.6	61.8	1	19.2-127			6.96	32
n-Nitrosodiphenylamine	0.667	ND	0.394	0.424	59.1	63.6	1	26.8-133			7.43	25.9
n-Nitrosodi-n-propylamine	0.667	ND	0.465	0.485	69.7	72.7	1	33.0-134			4.21	28.2
Phenanthrene	0.667	0.00678	0.416	0.438	61.3	64.7	1	30.8-137			5.22	26.5
Benzylbutyl phthalate	0.667	ND	0.360	0.370	54.0	55.5	1	33.4-128			2.81	28.5
Bis(2-ethylhexyl)phthalate	0.667	0.0116	0.359	0.360	52.1	52.2	1	21.8-141			0.250	35.2
Di-n-butyl phthalate	0.667	ND	0.398	0.430	59.7	64.5	1	32.2-133			7.68	25.9
Diethyl phthalate	0.667	ND	0.511	0.536	76.7	80.3	1	39.4-136			4.65	25.5
Dimethyl phthalate	0.667	ND	0.505	0.529	75.7	79.3	1	35.8-137			4.55	25.4
Di-n-octyl phthalate	0.667	ND	0.375	0.370	56.2	55.5	1	28.5-128			1.14	32.5
Pyrene	0.667	0.00866	0.332	0.344	48.5	50.3	1	24.1-130			3.60	29.9
1,2,4-Trichlorobenzene	0.667	ND	0.416	0.448	62.4	67.1	1	36.5-114			7.35	28.4
4-Chloro-3-methylphenol	0.667	ND	0.484	0.508	72.5	76.2	1	27.0-154			4.96	26.6
2-Chlorophenol	0.667	ND	0.434	0.455	65.1	68.1	1	33.2-121			4.53	29.3
2,4-Dichlorophenol	0.667	ND	0.470	0.492	70.5	73.8	1	34.8-134			4.49	27.3
2,4-Dimethylphenol	0.667	ND	0.400	0.420	59.9	63.0	1	12.3-149			5.06	32.3
4,6-Dinitro-2-methylphenol	0.667	ND	0.508	0.546	76.2	81.9	1	10.0-144			7.26	32.7
2,4-Dinitrophenol	0.667	ND	0.421	0.467	63.1	70.0	1	10.0-121			10.4	39.4
2-Nitrophenol	0.667	ND	0.520	0.552	77.9	82.8	1	29.5-144			6.07	29.9
4-Nitrophenol	0.667	ND	0.502	0.544	75.2	81.6	1	20.0-133			8.07	30.2

L798051-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/04/15 15:15 • (MS) 11/04/15 15:39 • (MSD) 11/04/15 16:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	0.667	ND	0.539	0.589	80.8	88.3	1	10.0-139			8.87	28.3
Phenol	0.667	ND	0.430	0.458	64.4	68.7	1	25.1-130			6.48	29.6
2,4,6-Trichlorophenol	0.667	ND	0.501	0.513	75.1	76.9	1	33.8-133			2.35	28.1
(S) Nitrobenzene-d5					*72.5*	*73.9*		*21.9-129*				
(S) 2-Fluorobiphenyl					*71.5*	*73.7*		*34.9-129*				
(S) p-Terphenyl-d14					*56.3*	*59.9*		*21.5-128*				
(S) Phenol-d5					*65.3*	*69.3*		*26.3-121*				
(S) 2-Fluorophenol					*65.9*	*70.2*		*21.1-116*				
(S) 2,4,6-Tribromophenol					*81.5*	*84.0*		*21.6-142*				

Method Blank (MB)

(MB) 11/05/15 02:25

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acenaphthene	ND		0.00100
Acenaphthylene	ND		0.00100
Anthracene	ND		0.00100
Benzidine	ND		0.0100
Benzo(a)anthracene	ND		0.00100
Benzo(b)fluoranthene	ND		0.00100
Benzo(k)fluoranthene	ND		0.00100
Benzo(g,h,i)perylene	ND		0.00100
Benzo(a)pyrene	ND		0.00100
Bis(2-chlorethoxy)methane	ND		0.0100
Bis(2-chloroethyl)ether	ND		0.0100
Bis(2-chloroisopropyl)ether	ND		0.0100
4-Bromophenyl-phenylether	ND		0.0100
2-Chloronaphthalene	ND		0.00100
4-Chlorophenyl-phenylether	ND		0.0100
Chrysene	ND		0.00100
Dibenz(a,h)anthracene	ND		0.00100
3,3-Dichlorobenzidine	ND		0.0100
2,4-Dinitrotoluene	ND		0.0100
2,6-Dinitrotoluene	ND		0.0100
Fluoranthene	ND		0.00100
Fluorene	ND		0.00100
Hexachlorobenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.0100
Hexachlorocyclopentadiene	ND		0.0100
Hexachloroethane	ND		0.0100
Indeno(1,2,3-cd)pyrene	ND		0.00100
Isophorone	ND		0.0100
Naphthalene	ND		0.00100
Nitrobenzene	ND		0.0100
n-Nitrosodimethylamine	ND		0.0100
n-Nitrosodiphenylamine	ND		0.0100
n-Nitrosodi-n-propylamine	ND		0.0100
Phenanthrene	ND		0.00100
Benzylbutyl phthalate	ND		0.00300
Bis(2-ethylhexyl)phthalate	ND		0.00300

Method Blank (MB)

(MB) 11/05/15 02:25

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Di-n-butyl phthalate	ND		0.00300
Diethyl phthalate	ND		0.00300
Dimethyl phthalate	ND		0.00300
Di-n-octyl phthalate	ND		0.00300
Pyrene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.0100
4-Chloro-3-methylphenol	ND		0.0100
2-Chlorophenol	ND		0.0100
2,4-Dichlorophenol	ND		0.0100
2,4-Dimethylphenol	ND		0.0100
4,6-Dinitro-2-methylphenol	ND		0.0100
2,4-Dinitrophenol	ND		0.0100
2-Nitrophenol	ND		0.0100
4-Nitrophenol	ND		0.0100
Pentachlorophenol	ND		0.0100
Phenol	ND		0.0100
2,4,6-Trichlorophenol	ND		0.0100
(S) Nitrobenzene-d5	*51.6*		*21.8-123*
(S) 2-Fluorobiphenyl	*60.7*		*29.5-131*
(S) p-Terphenyl-d14	*67.9*		*29.3-137*
(S) Phenol-d5	*21.2*		*5.00-70.1*
(S) 2-Fluorophenol	*36.0*		*10.0-77.9*
(S) 2,4,6-Tribromophenol	*60.1*		*11.2-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/05/15 01:39 • (LCSD) 11/05/15 02:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	0.0336	0.0319	67.1	63.8	38.7-109			5.02	21.5
Acenaphthylene	0.0500	0.0349	0.0335	69.9	67.1	36.0-106			4.08	21
Anthracene	0.0500	0.0370	0.0351	74.0	70.3	43.6-113			5.21	18.8
Benzidine	0.0500	0.0242	0.0241	48.5	48.1	10.0-165			0.770	40
Benzo(a)anthracene	0.0500	0.0349	0.0336	69.9	67.1	51.2-112			4.04	20
Benzo(b)fluoranthene	0.0500	0.0368	0.0364	73.6	72.9	47.6-111			1.00	20
Benzo(k)fluoranthene	0.0500	0.0344	0.0345	68.7	69.0	49.4-114			0.410	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/05/15 01:39 • (LCSD) 11/05/15 02:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.0500	0.0378	0.0381	75.6	76.2	45.2-117			0.780	20
Benzo(a)pyrene	0.0500	0.0361	0.0354	72.2	70.8	45.6-106			1.95	20
Bis(2-chlorethoxy)methane	0.0500	0.0307	0.0289	61.5	57.9	37.2-111			5.99	24.1
Bis(2-chloroethyl)ether	0.0500	0.0289	0.0270	57.8	53.9	22.6-108			6.92	27.9
Bis(2-chloroisopropyl)ether	0.0500	0.0342	0.0325	68.4	65.1	32.9-100			5.01	25.1
4-Bromophenyl-phenylether	0.0500	0.0372	0.0351	74.3	70.1	40.7-116			5.82	21
2-Chloronaphthalene	0.0500	0.0361	0.0342	72.2	68.4	33.6-105			5.34	23
4-Chlorophenyl-phenylether	0.0500	0.0360	0.0346	72.0	69.3	39.0-113			3.76	20.9
Chrysene	0.0500	0.0350	0.0337	70.0	67.3	54.6-120			3.89	20
Dibenz(a,h)anthracene	0.0500	0.0382	0.0382	76.3	76.5	42.8-118			0.190	20
3,3-Dichlorobenzidine	0.0500	0.0359	0.0346	71.7	69.1	27.2-142			3.65	22.3
2,4-Dinitrotoluene	0.0500	0.0382	0.0377	76.3	75.4	31.2-105			1.23	22
2,6-Dinitrotoluene	0.0500	0.0384	0.0369	76.8	73.8	30.6-106			3.99	23.1
Fluoranthene	0.0500	0.0370	0.0359	74.0	71.8	45.9-115			3.04	20
Fluorene	0.0500	0.0353	0.0339	70.6	67.7	41.0-112			4.21	20.2
Hexachlorobenzene	0.0500	0.0386	0.0367	77.2	73.4	38.5-116			4.98	20.1
Hexachloro-1,3-butadiene	0.0500	0.0316	0.0301	63.3	60.2	16.1-104			5.00	31.2
Hexachlorocyclopentadiene	0.0500	0.0182	0.0176	36.4	35.1	10.0-121			3.59	27.9
Hexachloroethane	0.0500	0.0294	0.0278	58.7	55.6	16.5-89.8			5.50	30.7
Indeno(1,2,3-cd)pyrene	0.0500	0.0385	0.0383	77.1	76.5	45.0-116			0.710	20
Isophorone	0.0500	0.0320	0.0306	64.0	61.2	35.4-112			4.39	21.5
Naphthalene	0.0500	0.0310	0.0298	62.1	59.5	32.2-101			4.21	23.8
Nitrobenzene	0.0500	0.0311	0.0290	62.2	58.0	31.4-106			6.97	25.7
n-Nitrosodimethylamine	0.0500	0.0114	0.0115	22.9	22.9	10.0-80.1			0.140	37.5
n-Nitrosodiphenylamine	0.0500	0.0344	0.0329	68.9	65.9	44.4-113			4.42	20
n-Nitrosodi-n-propylamine	0.0500	0.0293	0.0275	58.5	55.0	33.2-106			6.22	23.7
Phenanthrene	0.0500	0.0353	0.0334	70.5	66.9	46.4-113			5.26	20
Benzylbutyl phthalate	0.0500	0.0378	0.0360	75.6	72.0	31.8-123			4.89	20.7
Bis(2-ethylhexyl)phthalate	0.0500	0.0368	0.0356	73.5	71.2	36.9-134			3.18	23.6
Di-n-butyl phthalate	0.0500	0.0373	0.0356	74.6	71.3	41.8-120			4.51	20.2
Diethyl phthalate	0.0500	0.0386	0.0365	77.3	73.1	36.5-129			5.63	20
Dimethyl phthalate	0.0500	0.0363	0.0355	72.7	71.0	35.3-128			2.35	20.8
Di-n-octyl phthalate	0.0500	0.0403	0.0381	80.7	76.1	39.7-112			5.78	21.1
Pyrene	0.0500	0.0361	0.0344	72.3	68.9	46.3-117			4.83	20
1,2,4-Trichlorobenzene	0.0500	0.0304	0.0290	60.7	58.1	22.9-96.1			4.49	27.5
4-Chloro-3-methylphenol	0.0500	0.0342	0.0334	68.3	66.8	35.7-100			2.32	22.9

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/05/15 01:39 • (LCSD) 11/05/15 02:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.0500	0.0321	0.0302	64.3	60.4	26.2-91.5			6.18	26.5
2,4-Dichlorophenol	0.0500	0.0360	0.0341	71.9	68.2	31.4-103			5.35	24.9
2,4-Dimethylphenol	0.0500	0.0329	0.0319	65.7	63.8	31.9-107			3.02	25.7
4,6-Dinitro-2-methylphenol	0.0500	0.0400	0.0387	79.9	77.3	18.4-148			3.31	24.4
2,4-Dinitrophenol	0.0500	0.0255	0.0264	51.0	52.9	24.2-128			3.60	20.5
2-Nitrophenol	0.0500	0.0376	0.0358	75.3	71.5	25.9-106			5.11	26.9
4-Nitrophenol	0.0500	0.0166	0.0167	33.3	33.4	10.0-52.7			0.460	40
Pentachlorophenol	0.0500	0.0341	0.0340	68.2	68.0	10.0-97.4			0.310	35.1
Phenol	0.0500	0.0139	0.0137	27.8	27.5	10.0-57.9			1.13	35
2,4,6-Trichlorophenol	0.0500	0.0395	0.0385	79.0	77.1	29.8-107			2.45	24.1
(S) Nitrobenzene-d5				*58.6*	*55.7*	*21.8-123*				
(S) 2-Fluorobiphenyl				*66.0*	*63.4*	*29.5-131*				
(S) p-Terphenyl-d14				*73.0*	*68.2*	*29.3-137*				
(S) Phenol-d5				*26.8*	*25.6*	*5.00-70.1*				
(S) 2-Fluorophenol				*42.2*	*39.4*	*10.0-77.9*				
(S) 2,4,6-Tribromophenol				*83.6*	*76.8*	*11.2-130*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

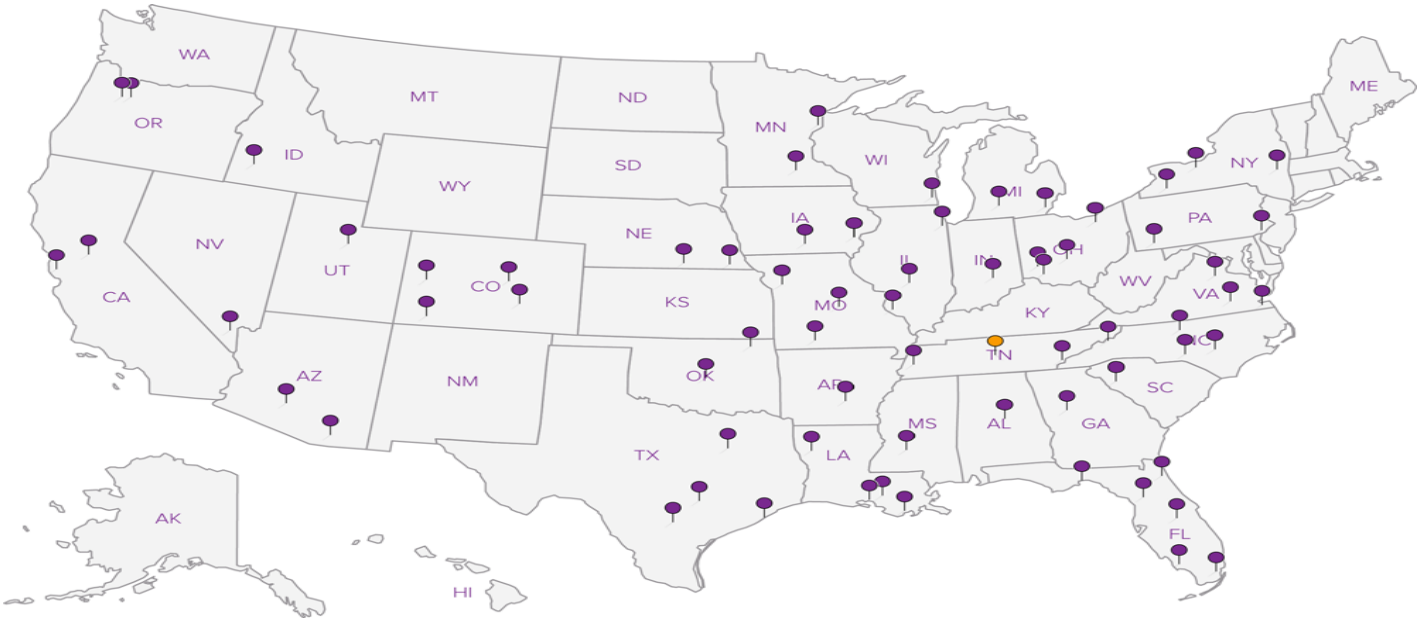
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
Withers & Ravenel Eng.
111 MacKenan Drive
Cary, NC 27511

Billing Information:
WITHRAVS - Regular
WITHRAVS-STATELEAD

Report to: MARK BROWN
Email To: mbrown@withersravenel.com
Project Description: FRANKLINTON DUMP
City/State Collected: Franklinton/NC
Phone: (919) 469-3340
Fax:
Client Project #: 02100001.30
Lab Project #: see above
Collected by (print): MIKE FEKETE
Site/Facility ID #:
P.O. #:
Collected by (signature):
Immediately Packed on Ice N ___ Y ___
Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%
Date Results Needed
Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L797680
D201
Acctnum: see above
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8260 B	8270 C	1,4 Dioxane 8260 SIM	14 Metals 6020	Mercury 7471 <2	Ammonia SM4500 <2	Nitrates	Sulfates			Rem./Contaminant	Sample # (lab only)
SW-22-W	Grab	OT		10/28/15	1300	9	X	X	X	X	X	X	X	X				-01/-02
SW-21-W	↓	OT		↓	1320	9	X	X	X	X	X	X	X	X				-03/-04
SW-Dup-W	↓	OT		↓	1340	9	X	X	X	X	X	X	X	X				-05/-06
SW-22-S	↓	SS		↓	1400	10	X	X	X	X	X	X	X	X				-07/-08
SW-Dup-S	↓	SS		↓	1420	10	X	X	X	X	X	X	X	X				-09/-10
SW-21-S	↓	SS		↓	1440	10	X	X	X	X	X	X	X	X				-11/-12
Trip Blank						1	X											-13

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Surface Water

pH: ___ Temp ___
Flow ___ Other ___

Remarks: NC Pre Reg LF

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☒ SWA	Condition: (lab use only)
	10/29/15	17:00			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.7 °C Bottles Received: 58	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date: 10/29/15	Time: 17:30	Received for lab by: (Signature)	Date: 10/30/15 Time: 1080	pH Checked: <2 NCF: X

ESC Lab Sciences
Non-Conformance Form

Login #: L797680	Client: WITHRAVS	Date: 10/30/15	Evaluated by: Troy Dunlap

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type	X	Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Please clarify 14 Metals 6020.

Client informed by:		Call		Email		Voice Mail		Date: 10/30/15	Time: 1245
TSR Initials: jeh	Client Contact:								

Login Instructions: **Analyze for SBG, ASG, BEG, CDG, CRG, CUG, PBG, HG, NIG, SEG, AGG, TLG, ZNG, FEG and MNG.**

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Laboratory Report – QA/QC Data Review

Project Name:	Franklinton Dump NONCD0000310 –Task Order 310DP-7
Project Number:	02100001.30
Laboratory Name:	ESC Laboratories
Laboratory Report Number and Date(s):	**L798115** dated 11/11/2015
Laboratory Sample IDs:	L798115-01, L798115-02, L798115-03, L798115-04, L798115-05, L798115-06, L798115-07, L798115-08, L798115-09, L798115-10, L798115-11, and L798115-12
Media Subjected to Analyses (preceded by sampling date):	(10/30/15) 5 Soil Samples, 1 Duplicate

QA/QC Checklist:

1. Samples Analyzed Outside of Holding Time? (y/n) – If yes identify sample.	No.
2. Samples Preserved Per Method Requirements? (y/n) – If no identify sample.	Yes.
3. Samples Received at or Below 4º C? (y/n)	Yes.
4. Did Blanks Contain Analytes Identified in Sample Media (B-Flags)? (y/n) – If yes identify sample.	No.
5. Were matrix – spike duplicates included in analyses? (y/n)	Yes.
6. Did the laboratory report any analyses as "rejected"? (y/n) - If yes identify sample.	No.
7. Did the laboratory provide explanation of any technical issues regarding the analyses of a samples(s) on the laboratory report? (y/n) – If yes summarize.	Yes, the laboratory reported the following issues: **L798115-09 Original Sample-Matrix Spike-Matrix Spike Duplicate** for mercury (J3) The associated batch QC was outside the established quality control range for precision. (J6) The sample matrix interfered with the ability to make any accurate determination; spike value is low. **L796586-09 Original Sample-Matrix Spike-Matrix Spike Duplicate** for lead (J3) The associated batch QC was outside the established quality control range for precision. (J6) The sample matrix interfered with the ability to make any accurate determination spike value is low.

	L796586-09 Original Sample-Matrix Spike-Matrix Spike Duplicate for manganese (J6) The sample matrix interfered with the ability to make any accurate determination; spike value is low. **Laboratory Control Sample-Laboratory Control Sample Duplicate** for bis (2-chloroethyl)ether, bis (2-chloroisopropyl)ether, hexachloro-1,3-butadiene, hexachloroethane, n-nitrosodimethylamine, 2-chorophenol (J3) The associated batch QC was outside the established quality control range for precision. **L798051-01 Original Sample-Matrix Spike-Matrix Spike Duplicate** for 3,3-dichlorobenzidine (J3) The associated batch QC was outside the established quality control range for precision.
8. Comments:	

Reviewer:	Chris Fay/SMB
Date of Review:	12/18/15
Data Suitable For Intended Use:	Yes

ANALYTICAL REPORT

November 11, 2015

Withers & Ravenel Eng. - Standard

Sample Delivery Group:	L798115
Samples Received:	10/31/2015
Project Number:	02100001.30
Description:	Franklinton Dump
Report To:	Mark Brown 115 MacKenan Drive Cary, NC 27511

Entire Report Reviewed By:

Jimmy Hunt
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SB-22 6IN L798115-01 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 11:25 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG826537	1	11/04/15 12:54	11/04/15 17:37	TRB
Metals (ICPMS) by Method 6020	WG826627	200	11/05/15 07:36	11/05/15 17:30	JD
Metals (ICPMS) by Method 6020	WG826627	5	11/05/15 07:36	11/05/15 15:42	JD
Metals (ICPMS) by Method 6020	WG826627	50	11/05/15 07:36	11/05/15 17:28	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	1	11/03/15 08:30	11/04/15 16:51	ADF
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826032	1	11/02/15 08:28	11/03/15 01:36	BMB
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:19	ASK
Wet Chemistry by Method 9056MOD	WG826741	1	11/05/15 14:50	11/05/15 23:22	DJD

SB-22 6IN L798115-02 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 11:25 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 13:02	ACG

SB-23 6IN L798115-03 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 11:35 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG826537	1	11/04/15 12:54	11/04/15 17:45	TRB
Metals (ICPMS) by Method 6020	WG826627	200	11/05/15 07:36	11/05/15 16:59	JD
Metals (ICPMS) by Method 6020	WG826627	5	11/05/15 07:36	11/05/15 15:49	JD
Metals (ICPMS) by Method 6020	WG826627	50	11/05/15 07:36	11/05/15 16:57	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	5	11/03/15 08:30	11/04/15 18:03	ADF
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826032	1	11/02/15 08:28	11/03/15 03:06	BMB
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:20	ASK
Wet Chemistry by Method 9056MOD	WG826741	1	11/05/15 14:50	11/06/15 00:34	DJD

SB-23 6IN L798115-04 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 11:35 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 11:06	ACG

SB-23 18IN L798115-05 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 11:45 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG826537	1	11/04/15 12:54	11/04/15 17:47	TRB
Metals (ICPMS) by Method 6020	WG826627	10	11/05/15 07:36	11/05/15 16:38	JD
Metals (ICPMS) by Method 6020	WG826627	200	11/05/15 07:36	11/05/15 17:02	JD
Metals (ICPMS) by Method 6020	WG826627	5	11/05/15 07:36	11/05/15 15:52	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	1	11/03/15 08:30	11/04/15 17:15	ADF
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826032	1	11/02/15 08:28	11/03/15 03:26	BMB
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:27	ASK
Wet Chemistry by Method 9056MOD	WG826741	1	11/05/15 14:50	11/06/15 00:58	DJD

SB-23 18IN L798115-06 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 11:45 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 13:21	ACG

SB-23 DUP L798115-07 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 12:00 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG826537	1	11/04/15 12:54	11/04/15 17:50	TRB
Metals (ICPMS) by Method 6020	WG826627	5	11/05/15 07:36	11/05/15 15:54	JD
Metals (ICPMS) by Method 6020	WG826627	50	11/05/15 07:36	11/05/15 17:05	JD
Metals (ICPMS) by Method 6020	WG826627	500	11/05/15 07:36	11/05/15 17:18	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	10	11/03/15 08:30	11/04/15 18:27	ADF
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826032	1	11/02/15 08:28	11/03/15 03:45	BMB
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:21	ASK
Wet Chemistry by Method 9056MOD	WG826741	1	11/05/15 14:50	11/06/15 01:22	DJD

SB-23 DUP L798115-08 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 12:00 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:50	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 13:41	ACG

SB-28 6IN L798115-09 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 10:20 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG826537	1	11/04/15 12:54	11/04/15 17:29	TRB
Metals (ICPMS) by Method 6020	WG826627	100	11/05/15 07:36	11/05/15 17:20	JD
Metals (ICPMS) by Method 6020	WG826627	200	11/05/15 07:36	11/05/15 17:23	JD
Metals (ICPMS) by Method 6020	WG826627	5	11/05/15 07:36	11/05/15 15:56	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	10	11/03/15 08:30	11/04/15 18:51	ADF
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:51	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826032	1	11/02/15 08:28	11/03/15 04:05	BMB
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:23	ASK
Wet Chemistry by Method 9056MOD	WG826741	1	11/05/15 14:50	11/06/15 01:46	DJD

SB-28 6IN L798115-10 Solid

Collected by: Mike Fekete | Collected date/time: 10/30/15 10:20 | Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:51	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 14:00	ACG

SB-28 18IN L798115-11 Solid

Collected by: Mike Fekete
Collected date/time: 10/30/15 10:40
Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG826537	1	11/04/15 12:54	11/04/15 17:52	TRB
Metals (ICPMS) by Method 6020	WG826627	10	11/05/15 07:36	11/05/15 16:41	JD
Metals (ICPMS) by Method 6020	WG826627	200	11/05/15 07:36	11/05/15 17:25	JD
Metals (ICPMS) by Method 6020	WG826627	5	11/05/15 07:36	11/05/15 15:59	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG826186	1	11/03/15 08:30	11/04/15 17:39	ADF
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:51	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826032	1.03	11/02/15 08:28	11/03/15 04:25	BMB
Wet Chemistry by Method 350.1	WG826808	1	11/05/15 09:00	11/06/15 11:29	ASK
Wet Chemistry by Method 9056MOD	WG826741	1	11/05/15 14:50	11/06/15 02:10	DJD

SB-28 18IN L798115-12 Solid

Collected by: Mike Fekete
Collected date/time: 10/30/15 10:40
Received date/time: 10/31/15 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Total Solids by Method 2540 G-2011	WG826479	1	11/03/15 15:34	11/04/15 09:51	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG826296	5	11/03/15 07:20	11/06/15 14:19	ACG

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jimmy Hunt
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.1		1	11/04/2015 09:50	WG826479

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	7.31		5.95	1	11/06/2015 11:19	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	5.97		1.19	1	11/05/2015 23:22	WG826741
Sulfate	ND		59.5	1	11/05/2015 23:22	WG826741

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0941		0.0238	1	11/04/2015 17:37	WG826537

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	1.12		0.595	5	11/05/2015 15:42	WG826627
Arsenic	3.72		0.595	5	11/05/2015 15:42	WG826627
Beryllium	ND		0.595	5	11/05/2015 15:42	WG826627
Cadmium	0.968		0.595	5	11/05/2015 15:42	WG826627
Chromium	15.8		0.595	5	11/05/2015 15:42	WG826627
Copper	491		11.9	50	11/05/2015 17:28	WG826627
Iron	33200		2380	200	11/05/2015 17:30	WG826627
Lead	100		0.595	5	11/05/2015 15:42	WG826627
Manganese	179		11.9	50	11/05/2015 17:28	WG826627
Nickel	6.94		0.595	5	11/05/2015 15:42	WG826627
Selenium	0.632		0.595	5	11/05/2015 15:42	WG826627
Silver	ND		1.19	5	11/05/2015 15:42	WG826627
Thallium	ND		0.595	5	11/05/2015 15:42	WG826627
Zinc	219		59.5	50	11/05/2015 17:28	WG826627

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0714		0.0595	1	11/03/2015 01:36	WG826032
Acrylonitrile	ND		0.0119	1	11/03/2015 01:36	WG826032
Benzene	ND		0.00119	1	11/03/2015 01:36	WG826032
Bromobenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
Bromodichloromethane	ND		0.00119	1	11/03/2015 01:36	WG826032
Bromoform	ND		0.00119	1	11/03/2015 01:36	WG826032
Bromomethane	ND		0.00595	1	11/03/2015 01:36	WG826032
n-Butylbenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
sec-Butylbenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
tert-Butylbenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
Carbon tetrachloride	ND		0.00119	1	11/03/2015 01:36	WG826032
Chlorobenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
Chlorodibromomethane	ND		0.00119	1	11/03/2015 01:36	WG826032
Chloroethane	ND		0.00595	1	11/03/2015 01:36	WG826032

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.0595	1	11/03/2015 01:36	WG826032
Chloroform	ND		0.00595	1	11/03/2015 01:36	WG826032
Chloromethane	ND		0.00297	1	11/03/2015 01:36	WG826032
2-Chlorotoluene	ND		0.00119	1	11/03/2015 01:36	WG826032
4-Chlorotoluene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,2-Dibromo-3-Chloropropane	ND		0.00595	1	11/03/2015 01:36	WG826032
1,2-Dibromoethane	ND		0.00119	1	11/03/2015 01:36	WG826032
Dibromomethane	ND		0.00119	1	11/03/2015 01:36	WG826032
1,2-Dichlorobenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,3-Dichlorobenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,4-Dichlorobenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
Dichlorodifluoromethane	ND		0.00595	1	11/03/2015 01:36	WG826032
1,1-Dichloroethane	ND		0.00119	1	11/03/2015 01:36	WG826032
1,2-Dichloroethane	ND		0.00119	1	11/03/2015 01:36	WG826032
1,1-Dichloroethene	ND		0.00119	1	11/03/2015 01:36	WG826032
cis-1,2-Dichloroethene	ND		0.00119	1	11/03/2015 01:36	WG826032
trans-1,2-Dichloroethene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,2-Dichloropropane	ND		0.00119	1	11/03/2015 01:36	WG826032
1,1-Dichloropropene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,3-Dichloropropane	ND		0.00119	1	11/03/2015 01:36	WG826032
cis-1,3-Dichloropropene	ND		0.00119	1	11/03/2015 01:36	WG826032
trans-1,3-Dichloropropene	ND		0.00119	1	11/03/2015 01:36	WG826032
2,2-Dichloropropane	ND		0.00119	1	11/03/2015 01:36	WG826032
Di-isopropyl ether	ND		0.00119	1	11/03/2015 01:36	WG826032
Ethylbenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
Hexachloro-1,3-butadiene	ND		0.00119	1	11/03/2015 01:36	WG826032
Isopropylbenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
p-Isopropyltoluene	ND		0.00119	1	11/03/2015 01:36	WG826032
2-Butanone (MEK)	ND		0.0119	1	11/03/2015 01:36	WG826032
Methylene Chloride	ND		0.00595	1	11/03/2015 01:36	WG826032
4-Methyl-2-pentanone (MIBK)	ND		0.0119	1	11/03/2015 01:36	WG826032
Methyl tert-butyl ether	ND		0.00119	1	11/03/2015 01:36	WG826032
Naphthalene	ND		0.00595	1	11/03/2015 01:36	WG826032
n-Propylbenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
Styrene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,1,1,2-Tetrachloroethane	ND		0.00119	1	11/03/2015 01:36	WG826032
1,1,2,2-Tetrachloroethane	ND		0.00119	1	11/03/2015 01:36	WG826032
Tetrachloroethene	ND		0.00119	1	11/03/2015 01:36	WG826032
Toluene	ND		0.00595	1	11/03/2015 01:36	WG826032
1,2,3-Trichlorobenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,2,4-Trichlorobenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,1,1-Trichloroethane	ND		0.00119	1	11/03/2015 01:36	WG826032
1,1,2-Trichloroethane	ND		0.00119	1	11/03/2015 01:36	WG826032
1,1,2-Trichlorotrifluoroethane	ND		0.00119	1	11/03/2015 01:36	WG826032
Trichloroethene	ND		0.00119	1	11/03/2015 01:36	WG826032
Trichlorofluoromethane	ND		0.00595	1	11/03/2015 01:36	WG826032
1,2,3-Trichloropropane	ND		0.00297	1	11/03/2015 01:36	WG826032
1,2,4-Trimethylbenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
1,3,5-Trimethylbenzene	ND		0.00119	1	11/03/2015 01:36	WG826032
Vinyl chloride	ND		0.00119	1	11/03/2015 01:36	WG826032
Xylenes, Total	ND		0.00357	1	11/03/2015 01:36	WG826032
(S) Toluene-d8	*104*		*88.7-115*		*11/03/2015 01:36*	WG826032
(S) Dibromofluoromethane	*101*		*76.3-123*		*11/03/2015 01:36*	WG826032
(S) 4-Bromofluorobenzene	*83.1*		*69.7-129*		*11/03/2015 01:36*	WG826032

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.0393	1	11/04/2015 16:51	WG826186
Acenaphthylene	ND		0.0393	1	11/04/2015 16:51	WG826186
Anthracene	ND		0.0393	1	11/04/2015 16:51	WG826186
Benzidine	ND	J	0.396	1	11/04/2015 16:51	WG826186
Benzo(a)anthracene	ND		0.0393	1	11/04/2015 16:51	WG826186
Benzo(b)fluoranthene	ND		0.0393	1	11/04/2015 16:51	WG826186
Benzo(k)fluoranthene	ND		0.0393	1	11/04/2015 16:51	WG826186
Benzo(g,h,i)perylene	ND		0.0393	1	11/04/2015 16:51	WG826186
Benzo(a)pyrene	ND		0.0393	1	11/04/2015 16:51	WG826186
Bis(2-chlorethoxy)methane	ND		0.396	1	11/04/2015 16:51	WG826186
Bis(2-chloroethyl)ether	ND	J3	0.396	1	11/04/2015 16:51	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	0.396	1	11/04/2015 16:51	WG826186
4-Bromophenyl-phenylether	ND		0.396	1	11/04/2015 16:51	WG826186
2-Chloronaphthalene	ND		0.0393	1	11/04/2015 16:51	WG826186
4-Chlorophenyl-phenylether	ND		0.396	1	11/04/2015 16:51	WG826186
Chrysene	ND		0.0393	1	11/04/2015 16:51	WG826186
Dibenz(a,h)anthracene	ND		0.0393	1	11/04/2015 16:51	WG826186
3,3-Dichlorobenzidine	ND		0.396	1	11/04/2015 16:51	WG826186
2,4-Dinitrotoluene	ND		0.396	1	11/04/2015 16:51	WG826186
2,6-Dinitrotoluene	ND		0.396	1	11/04/2015 16:51	WG826186
Fluoranthene	ND		0.0393	1	11/04/2015 16:51	WG826186
Fluorene	ND		0.0393	1	11/04/2015 16:51	WG826186
Hexachlorobenzene	ND		0.396	1	11/04/2015 16:51	WG826186
Hexachloro-1,3-butadiene	ND	J3	0.396	1	11/04/2015 16:51	WG826186
Hexachlorocyclopentadiene	ND		0.396	1	11/04/2015 16:51	WG826186
Hexachloroethane	ND	J3	0.396	1	11/04/2015 16:51	WG826186
Indeno(1,2,3-cd)pyrene	ND		0.0393	1	11/04/2015 16:51	WG826186
Isophorone	ND		0.396	1	11/04/2015 16:51	WG826186
Naphthalene	ND		0.0393	1	11/04/2015 16:51	WG826186
Nitrobenzene	ND		0.396	1	11/04/2015 16:51	WG826186
n-Nitrosodimethylamine	ND	J3	0.396	1	11/04/2015 16:51	WG826186
n-Nitrosodiphenylamine	ND		0.396	1	11/04/2015 16:51	WG826186
n-Nitrosodi-n-propylamine	ND		0.396	1	11/04/2015 16:51	WG826186
Phenanthrene	ND		0.0393	1	11/04/2015 16:51	WG826186
Benzylbutyl phthalate	ND		0.396	1	11/04/2015 16:51	WG826186
Bis(2-ethylhexyl)phthalate	ND		0.396	1	11/04/2015 16:51	WG826186
Di-n-butyl phthalate	ND		0.396	1	11/04/2015 16:51	WG826186
Diethyl phthalate	ND		0.396	1	11/04/2015 16:51	WG826186
Dimethyl phthalate	ND		0.396	1	11/04/2015 16:51	WG826186
Di-n-octyl phthalate	ND		0.396	1	11/04/2015 16:51	WG826186
Pyrene	ND		0.0393	1	11/04/2015 16:51	WG826186
1,2,4-Trichlorobenzene	ND		0.396	1	11/04/2015 16:51	WG826186
4-Chloro-3-methylphenol	ND		0.396	1	11/04/2015 16:51	WG826186
2-Chlorophenol	ND	J3	0.396	1	11/04/2015 16:51	WG826186
2,4-Dichlorophenol	ND		0.396	1	11/04/2015 16:51	WG826186
2,4-Dimethylphenol	ND		0.396	1	11/04/2015 16:51	WG826186
4,6-Dinitro-2-methylphenol	ND		0.396	1	11/04/2015 16:51	WG826186
2,4-Dinitrophenol	ND		0.396	1	11/04/2015 16:51	WG826186
2-Nitrophenol	ND		0.396	1	11/04/2015 16:51	WG826186
4-Nitrophenol	ND		0.396	1	11/04/2015 16:51	WG826186
Pentachlorophenol	ND	J	0.396	1	11/04/2015 16:51	WG826186
Phenol	ND		0.396	1	11/04/2015 16:51	WG826186
2,4,6-Trichlorophenol	ND		0.396	1	11/04/2015 16:51	WG826186
(S) 2-Fluorophenol	*63.6*		*21.1-116*		*11/04/2015 16:51*	WG826186
(S) Phenol-d5	*58.1*		*26.3-121*		*11/04/2015 16:51*	WG826186
(S) Nitrobenzene-d5	*67.2*		*21.9-129*		*11/04/2015 16:51*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*64.0*		*34.9-129*		*11/04/2015 16:51*	WG826186
(S) 2,4,6-Tribromophenol	*66.6*		*21.6-142*		*11/04/2015 16:51*	WG826186
(S) p-Terphenyl-d14	*50.2*		*21.5-128*		*11/04/2015 16:51*	WG826186

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.1		1	11/04/2015 09:50	WG826479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0178	5	11/06/2015 13:02	WG826296
(S) Toluene-d8	*106*		*70.0-130*		*11/06/2015 13:02*	WG826296

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.7		1	11/04/2015 09:50	WG826479

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		5.90	1	11/06/2015 11:20	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	2.42		1.18	1	11/06/2015 00:34	WG826741
Sulfate	ND		59.0	1	11/06/2015 00:34	WG826741

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.230		0.0236	1	11/04/2015 17:45	WG826537

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	3.06		0.590	5	11/05/2015 15:49	WG826627
Arsenic	4.90		0.590	5	11/05/2015 15:49	WG826627
Beryllium	ND		0.590	5	11/05/2015 15:49	WG826627
Cadmium	3.35		0.590	5	11/05/2015 15:49	WG826627
Chromium	23.3		0.590	5	11/05/2015 15:49	WG826627
Copper	105		1.18	5	11/05/2015 15:49	WG826627
Iron	39200		2360	200	11/05/2015 16:59	WG826627
Lead	260		5.90	50	11/05/2015 16:57	WG826627
Manganese	399		11.8	50	11/05/2015 16:57	WG826627
Nickel	15.1		0.590	5	11/05/2015 15:49	WG826627
Selenium	ND		0.590	5	11/05/2015 15:49	WG826627
Silver	ND		1.18	5	11/05/2015 15:49	WG826627
Thallium	ND		0.590	5	11/05/2015 15:49	WG826627
Zinc	578		59.0	50	11/05/2015 16:57	WG826627

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.115		0.0590	1	11/03/2015 03:06	WG826032
Acrylonitrile	ND		0.0118	1	11/03/2015 03:06	WG826032
Benzene	0.00681		0.00118	1	11/03/2015 03:06	WG826032
Bromobenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
Bromodichloromethane	ND		0.00118	1	11/03/2015 03:06	WG826032
Bromoform	ND		0.00118	1	11/03/2015 03:06	WG826032
Bromomethane	ND		0.00590	1	11/03/2015 03:06	WG826032
n-Butylbenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
sec-Butylbenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
tert-Butylbenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
Carbon tetrachloride	ND		0.00118	1	11/03/2015 03:06	WG826032
Chlorobenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
Chlorodibromomethane	ND		0.00118	1	11/03/2015 03:06	WG826032
Chloroethane	ND		0.00590	1	11/03/2015 03:06	WG826032

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.0590	1	11/03/2015 03:06	WG826032
Chloroform	ND		0.00590	1	11/03/2015 03:06	WG826032
Chloromethane	ND		0.00295	1	11/03/2015 03:06	WG826032
2-Chlorotoluene	ND		0.00118	1	11/03/2015 03:06	WG826032
4-Chlorotoluene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,2-Dibromo-3-Chloropropane	ND		0.00590	1	11/03/2015 03:06	WG826032
1,2-Dibromoethane	ND		0.00118	1	11/03/2015 03:06	WG826032
Dibromomethane	ND		0.00118	1	11/03/2015 03:06	WG826032
1,2-Dichlorobenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,3-Dichlorobenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,4-Dichlorobenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
Dichlorodifluoromethane	ND		0.00590	1	11/03/2015 03:06	WG826032
1,1-Dichloroethane	ND		0.00118	1	11/03/2015 03:06	WG826032
1,2-Dichloroethane	ND		0.00118	1	11/03/2015 03:06	WG826032
1,1-Dichloroethene	ND		0.00118	1	11/03/2015 03:06	WG826032
cis-1,2-Dichloroethene	ND		0.00118	1	11/03/2015 03:06	WG826032
trans-1,2-Dichloroethene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,2-Dichloropropane	ND		0.00118	1	11/03/2015 03:06	WG826032
1,1-Dichloropropene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,3-Dichloropropane	ND		0.00118	1	11/03/2015 03:06	WG826032
cis-1,3-Dichloropropene	ND		0.00118	1	11/03/2015 03:06	WG826032
trans-1,3-Dichloropropene	ND		0.00118	1	11/03/2015 03:06	WG826032
2,2-Dichloropropane	ND		0.00118	1	11/03/2015 03:06	WG826032
Di-isopropyl ether	ND		0.00118	1	11/03/2015 03:06	WG826032
Ethylbenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
Hexachloro-1,3-butadiene	ND		0.00118	1	11/03/2015 03:06	WG826032
Isopropylbenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
p-Isopropyltoluene	ND		0.00118	1	11/03/2015 03:06	WG826032
2-Butanone (MEK)	0.0141		0.0118	1	11/03/2015 03:06	WG826032
Methylene Chloride	ND		0.00590	1	11/03/2015 03:06	WG826032
4-Methyl-2-pentanone (MIBK)	ND		0.0118	1	11/03/2015 03:06	WG826032
Methyl tert-butyl ether	ND		0.00118	1	11/03/2015 03:06	WG826032
Naphthalene	ND		0.00590	1	11/03/2015 03:06	WG826032
n-Propylbenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
Styrene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,1,1,2-Tetrachloroethane	ND		0.00118	1	11/03/2015 03:06	WG826032
1,1,2,2-Tetrachloroethane	ND		0.00118	1	11/03/2015 03:06	WG826032
Tetrachloroethene	ND		0.00118	1	11/03/2015 03:06	WG826032
Toluene	ND		0.00590	1	11/03/2015 03:06	WG826032
1,2,3-Trichlorobenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,2,4-Trichlorobenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,1,1-Trichloroethane	ND		0.00118	1	11/03/2015 03:06	WG826032
1,1,2-Trichloroethane	ND		0.00118	1	11/03/2015 03:06	WG826032
1,1,2-Trichlorotrifluoroethane	ND		0.00118	1	11/03/2015 03:06	WG826032
Trichloroethene	ND		0.00118	1	11/03/2015 03:06	WG826032
Trichlorofluoromethane	ND		0.00590	1	11/03/2015 03:06	WG826032
1,2,3-Trichloropropane	ND		0.00295	1	11/03/2015 03:06	WG826032
1,2,4-Trimethylbenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
1,3,5-Trimethylbenzene	ND		0.00118	1	11/03/2015 03:06	WG826032
Vinyl chloride	ND		0.00118	1	11/03/2015 03:06	WG826032
Xylenes, Total	ND		0.00354	1	11/03/2015 03:06	WG826032
(S) Toluene-d8	*98.9*		*88.7-115*		*11/03/2015 03:06*	WG826032
(S) Dibromofluoromethane	*106*		*76.3-123*		*11/03/2015 03:06*	WG826032
(S) 4-Bromofluorobenzene	*54.1*	J2	*69.7-129*		*11/03/2015 03:06*	WG826032

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.195	5	11/04/2015 18:03	WG826186
Acenaphthylene	ND		0.195	5	11/04/2015 18:03	WG826186
Anthracene	ND		0.195	5	11/04/2015 18:03	WG826186
Benzidine	ND	J	1.97	5	11/04/2015 18:03	WG826186
Benzo(a)anthracene	ND		0.195	5	11/04/2015 18:03	WG826186
Benzo(b)fluoranthene	0.214		0.195	5	11/04/2015 18:03	WG826186
Benzo(k)fluoranthene	ND		0.195	5	11/04/2015 18:03	WG826186
Benzo(g,h,i)perylene	ND		0.195	5	11/04/2015 18:03	WG826186
Benzo(a)pyrene	ND		0.195	5	11/04/2015 18:03	WG826186
Bis(2-chlorethoxy)methane	ND		1.97	5	11/04/2015 18:03	WG826186
Bis(2-chloroethyl)ether	ND	J3	1.97	5	11/04/2015 18:03	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	1.97	5	11/04/2015 18:03	WG826186
4-Bromophenyl-phenylether	ND		1.97	5	11/04/2015 18:03	WG826186
2-Chloronaphthalene	ND		0.195	5	11/04/2015 18:03	WG826186
4-Chlorophenyl-phenylether	ND		1.97	5	11/04/2015 18:03	WG826186
Chrysene	ND		0.195	5	11/04/2015 18:03	WG826186
Dibenz(a,h)anthracene	ND		0.195	5	11/04/2015 18:03	WG826186
3,3-Dichlorobenzidine	ND		1.97	5	11/04/2015 18:03	WG826186
2,4-Dinitrotoluene	ND		1.97	5	11/04/2015 18:03	WG826186
2,6-Dinitrotoluene	ND		1.97	5	11/04/2015 18:03	WG826186
Fluoranthene	0.221		0.195	5	11/04/2015 18:03	WG826186
Fluorene	ND		0.195	5	11/04/2015 18:03	WG826186
Hexachlorobenzene	ND		1.97	5	11/04/2015 18:03	WG826186
Hexachloro-1,3-butadiene	ND	J3	1.97	5	11/04/2015 18:03	WG826186
Hexachlorocyclopentadiene	ND		1.97	5	11/04/2015 18:03	WG826186
Hexachloroethane	ND	J3	1.97	5	11/04/2015 18:03	WG826186
Indeno(1,2,3-cd)pyrene	ND		0.195	5	11/04/2015 18:03	WG826186
Isophorone	ND		1.97	5	11/04/2015 18:03	WG826186
Naphthalene	ND		0.195	5	11/04/2015 18:03	WG826186
Nitrobenzene	ND		1.97	5	11/04/2015 18:03	WG826186
n-Nitrosodimethylamine	ND	J3	1.97	5	11/04/2015 18:03	WG826186
n-Nitrosodiphenylamine	ND		1.97	5	11/04/2015 18:03	WG826186
n-Nitrosodi-n-propylamine	ND		1.97	5	11/04/2015 18:03	WG826186
Phenanthrene	ND		0.195	5	11/04/2015 18:03	WG826186
Benzylbutyl phthalate	ND		1.97	5	11/04/2015 18:03	WG826186
Bis(2-ethylhexyl)phthalate	ND		1.97	5	11/04/2015 18:03	WG826186
Di-n-butyl phthalate	ND		1.97	5	11/04/2015 18:03	WG826186
Diethyl phthalate	ND		1.97	5	11/04/2015 18:03	WG826186
Dimethyl phthalate	ND		1.97	5	11/04/2015 18:03	WG826186
Di-n-octyl phthalate	ND		1.97	5	11/04/2015 18:03	WG826186
Pyrene	ND		0.195	5	11/04/2015 18:03	WG826186
1,2,4-Trichlorobenzene	ND		1.97	5	11/04/2015 18:03	WG826186
4-Chloro-3-methylphenol	ND		1.97	5	11/04/2015 18:03	WG826186
2-Chlorophenol	ND	J3	1.97	5	11/04/2015 18:03	WG826186
2,4-Dichlorophenol	ND		1.97	5	11/04/2015 18:03	WG826186
2,4-Dimethylphenol	ND		1.97	5	11/04/2015 18:03	WG826186
4,6-Dinitro-2-methylphenol	ND		1.97	5	11/04/2015 18:03	WG826186
2,4-Dinitrophenol	ND		1.97	5	11/04/2015 18:03	WG826186
2-Nitrophenol	ND		1.97	5	11/04/2015 18:03	WG826186
4-Nitrophenol	ND		1.97	5	11/04/2015 18:03	WG826186
Pentachlorophenol	ND	J	1.97	5	11/04/2015 18:03	WG826186
Phenol	ND		1.97	5	11/04/2015 18:03	WG826186
2,4,6-Trichlorophenol	ND		1.97	5	11/04/2015 18:03	WG826186
(S) 2-Fluorophenol	*68.5*		*21.1-116*		*11/04/2015 18:03*	WG826186
(S) Phenol-d5	*66.1*		*26.3-121*		*11/04/2015 18:03*	WG826186
(S) Nitrobenzene-d5	*72.6*		*21.9-129*		*11/04/2015 18:03*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*70.2*		*34.9-129*		*11/04/2015 18:03*	WG826186
(S) 2,4,6-Tribromophenol	*72.8*		*21.6-142*		*11/04/2015 18:03*	WG826186
(S) p-Terphenyl-d14	*57.5*		*21.5-128*		*11/04/2015 18:03*	WG826186

Sample Narrative:

8270D L798115-03 WG826186: Cannot run at lower dilution due to viscosity of extract

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.7		1	11/04/2015 09:50	WG826479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0177	5	11/06/2015 11:06	WG826296
(S) Toluene-d8	*105*		*70.0-130*		*11/06/2015 11:06*	WG826296

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.6		1	11/04/2015 09:50	WG826479

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		6.44	1	11/06/2015 11:27	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	ND		1.29	1	11/06/2015 00:58	WG826741
Sulfate	ND		64.4	1	11/06/2015 00:58	WG826741

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0945		0.0258	1	11/04/2015 17:47	WG826537

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		0.644	5	11/05/2015 15:52	WG826627
Arsenic	3.01		0.644	5	11/05/2015 15:52	WG826627
Beryllium	ND		1.29	10	11/05/2015 16:38	WG826627
Cadmium	ND		0.644	5	11/05/2015 15:52	WG826627
Chromium	20.7		0.644	5	11/05/2015 15:52	WG826627
Copper	17.8		1.29	5	11/05/2015 15:52	WG826627
Iron	45900		2580	200	11/05/2015 17:02	WG826627
Lead	26.6		0.644	5	11/05/2015 15:52	WG826627
Manganese	117		2.58	10	11/05/2015 16:38	WG826627
Nickel	3.91		0.644	5	11/05/2015 15:52	WG826627
Selenium	0.739		0.644	5	11/05/2015 15:52	WG826627
Silver	ND		1.29	5	11/05/2015 15:52	WG826627
Thallium	ND		0.644	5	11/05/2015 15:52	WG826627
Zinc	46.9		6.44	5	11/05/2015 15:52	WG826627

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0644	1	11/03/2015 03:26	WG826032
Acrylonitrile	ND		0.0129	1	11/03/2015 03:26	WG826032
Benzene	ND		0.00129	1	11/03/2015 03:26	WG826032
Bromobenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
Bromodichloromethane	ND		0.00129	1	11/03/2015 03:26	WG826032
Bromoform	ND		0.00129	1	11/03/2015 03:26	WG826032
Bromomethane	ND		0.00644	1	11/03/2015 03:26	WG826032
n-Butylbenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
sec-Butylbenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
tert-Butylbenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
Carbon tetrachloride	ND		0.00129	1	11/03/2015 03:26	WG826032
Chlorobenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
Chlorodibromomethane	ND		0.00129	1	11/03/2015 03:26	WG826032
Chloroethane	ND		0.00644	1	11/03/2015 03:26	WG826032

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.0644	1	11/03/2015 03:26	WG826032
Chloroform	ND		0.00644	1	11/03/2015 03:26	WG826032
Chloromethane	ND		0.00322	1	11/03/2015 03:26	WG826032
2-Chlorotoluene	ND		0.00129	1	11/03/2015 03:26	WG826032
4-Chlorotoluene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,2-Dibromo-3-Chloropropane	ND		0.00644	1	11/03/2015 03:26	WG826032
1,2-Dibromoethane	ND		0.00129	1	11/03/2015 03:26	WG826032
Dibromomethane	ND		0.00129	1	11/03/2015 03:26	WG826032
1,2-Dichlorobenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,3-Dichlorobenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,4-Dichlorobenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
Dichlorodifluoromethane	ND		0.00644	1	11/03/2015 03:26	WG826032
1,1-Dichloroethane	ND		0.00129	1	11/03/2015 03:26	WG826032
1,2-Dichloroethane	ND		0.00129	1	11/03/2015 03:26	WG826032
1,1-Dichloroethene	ND		0.00129	1	11/03/2015 03:26	WG826032
cis-1,2-Dichloroethene	ND		0.00129	1	11/03/2015 03:26	WG826032
trans-1,2-Dichloroethene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,2-Dichloropropane	ND		0.00129	1	11/03/2015 03:26	WG826032
1,1-Dichloropropene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,3-Dichloropropane	ND		0.00129	1	11/03/2015 03:26	WG826032
cis-1,3-Dichloropropene	ND		0.00129	1	11/03/2015 03:26	WG826032
trans-1,3-Dichloropropene	ND		0.00129	1	11/03/2015 03:26	WG826032
2,2-Dichloropropane	ND		0.00129	1	11/03/2015 03:26	WG826032
Di-isopropyl ether	ND		0.00129	1	11/03/2015 03:26	WG826032
Ethylbenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
Hexachloro-1,3-butadiene	ND		0.00129	1	11/03/2015 03:26	WG826032
Isopropylbenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
p-Isopropyltoluene	ND		0.00129	1	11/03/2015 03:26	WG826032
2-Butanone (MEK)	ND		0.0129	1	11/03/2015 03:26	WG826032
Methylene Chloride	ND		0.00644	1	11/03/2015 03:26	WG826032
4-Methyl-2-pentanone (MIBK)	ND		0.0129	1	11/03/2015 03:26	WG826032
Methyl tert-butyl ether	ND		0.00129	1	11/03/2015 03:26	WG826032
Naphthalene	ND		0.00644	1	11/03/2015 03:26	WG826032
n-Propylbenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
Styrene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,1,1,2-Tetrachloroethane	ND		0.00129	1	11/03/2015 03:26	WG826032
1,1,2,2-Tetrachloroethane	ND		0.00129	1	11/03/2015 03:26	WG826032
Tetrachloroethene	ND		0.00129	1	11/03/2015 03:26	WG826032
Toluene	ND		0.00644	1	11/03/2015 03:26	WG826032
1,2,3-Trichlorobenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,2,4-Trichlorobenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,1,1-Trichloroethane	ND		0.00129	1	11/03/2015 03:26	WG826032
1,1,2-Trichloroethane	ND		0.00129	1	11/03/2015 03:26	WG826032
1,1,2-Trichlorotrifluoroethane	ND		0.00129	1	11/03/2015 03:26	WG826032
Trichloroethene	ND		0.00129	1	11/03/2015 03:26	WG826032
Trichlorofluoromethane	ND		0.00644	1	11/03/2015 03:26	WG826032
1,2,3-Trichloropropane	ND		0.00322	1	11/03/2015 03:26	WG826032
1,2,4-Trimethylbenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
1,3,5-Trimethylbenzene	ND		0.00129	1	11/03/2015 03:26	WG826032
Vinyl chloride	ND		0.00129	1	11/03/2015 03:26	WG826032
Xylenes, Total	ND		0.00386	1	11/03/2015 03:26	WG826032
(S) Toluene-d8	*104*		*88.7-115*		*11/03/2015 03:26*	WG826032
(S) Dibromofluoromethane	*100*		*76.3-123*		*11/03/2015 03:26*	WG826032
(S) 4-Bromofluorobenzene	*92.3*		*69.7-129*		*11/03/2015 03:26*	WG826032

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.0425	1	11/04/2015 17:15	WG826186
Acenaphthylene	ND		0.0425	1	11/04/2015 17:15	WG826186
Anthracene	ND		0.0425	1	11/04/2015 17:15	WG826186
Benzidine	ND	J	0.429	1	11/04/2015 17:15	WG826186
Benzo(a)anthracene	ND		0.0425	1	11/04/2015 17:15	WG826186
Benzo(b)fluoranthene	ND		0.0425	1	11/04/2015 17:15	WG826186
Benzo(k)fluoranthene	ND		0.0425	1	11/04/2015 17:15	WG826186
Benzo(g,h,i)perylene	ND		0.0425	1	11/04/2015 17:15	WG826186
Benzo(a)pyrene	ND		0.0425	1	11/04/2015 17:15	WG826186
Bis(2-chlorethoxy)methane	ND		0.429	1	11/04/2015 17:15	WG826186
Bis(2-chloroethyl)ether	ND	J3	0.429	1	11/04/2015 17:15	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	0.429	1	11/04/2015 17:15	WG826186
4-Bromophenyl-phenylether	ND		0.429	1	11/04/2015 17:15	WG826186
2-Chloronaphthalene	ND		0.0425	1	11/04/2015 17:15	WG826186
4-Chlorophenyl-phenylether	ND		0.429	1	11/04/2015 17:15	WG826186
Chrysene	ND		0.0425	1	11/04/2015 17:15	WG826186
Dibenz(a,h)anthracene	ND		0.0425	1	11/04/2015 17:15	WG826186
3,3-Dichlorobenzidine	ND		0.429	1	11/04/2015 17:15	WG826186
2,4-Dinitrotoluene	ND		0.429	1	11/04/2015 17:15	WG826186
2,6-Dinitrotoluene	ND		0.429	1	11/04/2015 17:15	WG826186
Fluoranthene	ND		0.0425	1	11/04/2015 17:15	WG826186
Fluorene	ND		0.0425	1	11/04/2015 17:15	WG826186
Hexachlorobenzene	ND		0.429	1	11/04/2015 17:15	WG826186
Hexachloro-1,3-butadiene	ND	J3	0.429	1	11/04/2015 17:15	WG826186
Hexachlorocyclopentadiene	ND		0.429	1	11/04/2015 17:15	WG826186
Hexachloroethane	ND	J3	0.429	1	11/04/2015 17:15	WG826186
Indeno(1,2,3-cd)pyrene	ND		0.0425	1	11/04/2015 17:15	WG826186
Isophorone	ND		0.429	1	11/04/2015 17:15	WG826186
Naphthalene	ND		0.0425	1	11/04/2015 17:15	WG826186
Nitrobenzene	ND		0.429	1	11/04/2015 17:15	WG826186
n-Nitrosodimethylamine	ND	J3	0.429	1	11/04/2015 17:15	WG826186
n-Nitrosodiphenylamine	ND		0.429	1	11/04/2015 17:15	WG826186
n-Nitrosodi-n-propylamine	ND		0.429	1	11/04/2015 17:15	WG826186
Phenanthrene	ND		0.0425	1	11/04/2015 17:15	WG826186
Benzylbutyl phthalate	ND		0.429	1	11/04/2015 17:15	WG826186
Bis(2-ethylhexyl)phthalate	ND		0.429	1	11/04/2015 17:15	WG826186
Di-n-butyl phthalate	ND		0.429	1	11/04/2015 17:15	WG826186
Diethyl phthalate	ND		0.429	1	11/04/2015 17:15	WG826186
Dimethyl phthalate	ND		0.429	1	11/04/2015 17:15	WG826186
Di-n-octyl phthalate	ND		0.429	1	11/04/2015 17:15	WG826186
Pyrene	ND		0.0425	1	11/04/2015 17:15	WG826186
1,2,4-Trichlorobenzene	ND		0.429	1	11/04/2015 17:15	WG826186
4-Chloro-3-methylphenol	ND		0.429	1	11/04/2015 17:15	WG826186
2-Chlorophenol	ND	J3	0.429	1	11/04/2015 17:15	WG826186
2,4-Dichlorophenol	ND		0.429	1	11/04/2015 17:15	WG826186
2,4-Dimethylphenol	ND		0.429	1	11/04/2015 17:15	WG826186
4,6-Dinitro-2-methylphenol	ND		0.429	1	11/04/2015 17:15	WG826186
2,4-Dinitrophenol	ND		0.429	1	11/04/2015 17:15	WG826186
2-Nitrophenol	ND		0.429	1	11/04/2015 17:15	WG826186
4-Nitrophenol	ND		0.429	1	11/04/2015 17:15	WG826186
Pentachlorophenol	ND	J	0.429	1	11/04/2015 17:15	WG826186
Phenol	ND		0.429	1	11/04/2015 17:15	WG826186
2,4,6-Trichlorophenol	ND		0.429	1	11/04/2015 17:15	WG826186
(S) 2-Fluorophenol	*67.4*		*21.1-116*		*11/04/2015 17:15*	WG826186
(S) Phenol-d5	*69.2*		*26.3-121*		*11/04/2015 17:15*	WG826186
(S) Nitrobenzene-d5	*76.1*		*21.9-129*		*11/04/2015 17:15*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*75.7*		*34.9-129*		*11/04/2015 17:15*	WG826186
(S) 2,4,6-Tribromophenol	*88.7*		*21.6-142*		*11/04/2015 17:15*	WG826186
(S) p-Terphenyl-d14	*57.7*		*21.5-128*		*11/04/2015 17:15*	WG826186

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.6		1	11/04/2015 09:50	WG826479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0193	5	11/06/2015 13:21	WG826296
(S) Toluene-d8	*106*		*70.0-130*		*11/06/2015 13:21*	WG826296

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.4		1	11/04/2015 09:50	WG826479

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		6.07	1	11/06/2015 11:21	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	1.88		1.21	1	11/06/2015 01:22	WG826741
Sulfate	ND		60.7	1	11/06/2015 01:22	WG826741

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.236		0.0243	1	11/04/2015 17:50	WG826537

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	4.96		0.607	5	11/05/2015 15:54	WG826627
Arsenic	6.39		0.607	5	11/05/2015 15:54	WG826627
Beryllium	ND		0.607	5	11/05/2015 15:54	WG826627
Cadmium	4.19		0.607	5	11/05/2015 15:54	WG826627
Chromium	28.4		0.607	5	11/05/2015 15:54	WG826627
Copper	162		12.1	50	11/05/2015 17:05	WG826627
Iron	47500		6070	500	11/05/2015 17:18	WG826627
Lead	375		6.07	50	11/05/2015 17:05	WG826627
Manganese	615		12.1	50	11/05/2015 17:05	WG826627
Nickel	29.7		0.607	5	11/05/2015 15:54	WG826627
Selenium	0.733		0.607	5	11/05/2015 15:54	WG826627
Silver	ND		1.21	5	11/05/2015 15:54	WG826627
Thallium	ND		0.607	5	11/05/2015 15:54	WG826627
Zinc	792		60.7	50	11/05/2015 17:05	WG826627

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.140		0.0607	1	11/03/2015 03:45	WG826032
Acrylonitrile	ND		0.0121	1	11/03/2015 03:45	WG826032
Benzene	0.00771		0.00121	1	11/03/2015 03:45	WG826032
Bromobenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
Bromodichloromethane	ND		0.00121	1	11/03/2015 03:45	WG826032
Bromoform	ND		0.00121	1	11/03/2015 03:45	WG826032
Bromomethane	ND		0.00607	1	11/03/2015 03:45	WG826032
n-Butylbenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
sec-Butylbenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
tert-Butylbenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
Carbon tetrachloride	ND		0.00121	1	11/03/2015 03:45	WG826032
Chlorobenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
Chlorodibromomethane	ND		0.00121	1	11/03/2015 03:45	WG826032
Chloroethane	ND		0.00607	1	11/03/2015 03:45	WG826032

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.0607	1	11/03/2015 03:45	WG826032
Chloroform	ND		0.00607	1	11/03/2015 03:45	WG826032
Chloromethane	ND		0.00303	1	11/03/2015 03:45	WG826032
2-Chlorotoluene	ND		0.00121	1	11/03/2015 03:45	WG826032
4-Chlorotoluene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,2-Dibromo-3-Chloropropane	ND		0.00607	1	11/03/2015 03:45	WG826032
1,2-Dibromoethane	ND		0.00121	1	11/03/2015 03:45	WG826032
Dibromomethane	ND		0.00121	1	11/03/2015 03:45	WG826032
1,2-Dichlorobenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,3-Dichlorobenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,4-Dichlorobenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
Dichlorodifluoromethane	ND		0.00607	1	11/03/2015 03:45	WG826032
1,1-Dichloroethane	ND		0.00121	1	11/03/2015 03:45	WG826032
1,2-Dichloroethane	ND		0.00121	1	11/03/2015 03:45	WG826032
1,1-Dichloroethene	ND		0.00121	1	11/03/2015 03:45	WG826032
cis-1,2-Dichloroethene	ND		0.00121	1	11/03/2015 03:45	WG826032
trans-1,2-Dichloroethene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,2-Dichloropropane	ND		0.00121	1	11/03/2015 03:45	WG826032
1,1-Dichloropropene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,3-Dichloropropane	ND		0.00121	1	11/03/2015 03:45	WG826032
cis-1,3-Dichloropropene	ND		0.00121	1	11/03/2015 03:45	WG826032
trans-1,3-Dichloropropene	ND		0.00121	1	11/03/2015 03:45	WG826032
2,2-Dichloropropane	ND		0.00121	1	11/03/2015 03:45	WG826032
Di-isopropyl ether	ND		0.00121	1	11/03/2015 03:45	WG826032
Ethylbenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
Hexachloro-1,3-butadiene	ND		0.00121	1	11/03/2015 03:45	WG826032
Isopropylbenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
p-Isopropyltoluene	ND		0.00121	1	11/03/2015 03:45	WG826032
2-Butanone (MEK)	0.0159		0.0121	1	11/03/2015 03:45	WG826032
Methylene Chloride	ND		0.00607	1	11/03/2015 03:45	WG826032
4-Methyl-2-pentanone (MIBK)	ND		0.0121	1	11/03/2015 03:45	WG826032
Methyl tert-butyl ether	ND		0.00121	1	11/03/2015 03:45	WG826032
Naphthalene	ND		0.00607	1	11/03/2015 03:45	WG826032
n-Propylbenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
Styrene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,1,1,2-Tetrachloroethane	ND		0.00121	1	11/03/2015 03:45	WG826032
1,1,2,2-Tetrachloroethane	ND		0.00121	1	11/03/2015 03:45	WG826032
Tetrachloroethene	ND		0.00121	1	11/03/2015 03:45	WG826032
Toluene	ND		0.00607	1	11/03/2015 03:45	WG826032
1,2,3-Trichlorobenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,2,4-Trichlorobenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,1,1-Trichloroethane	ND		0.00121	1	11/03/2015 03:45	WG826032
1,1,2-Trichloroethane	ND		0.00121	1	11/03/2015 03:45	WG826032
1,1,2-Trichlorotrifluoroethane	ND		0.00121	1	11/03/2015 03:45	WG826032
Trichloroethene	ND		0.00121	1	11/03/2015 03:45	WG826032
Trichlorofluoromethane	ND		0.00607	1	11/03/2015 03:45	WG826032
1,2,3-Trichloropropane	ND		0.00303	1	11/03/2015 03:45	WG826032
1,2,4-Trimethylbenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
1,3,5-Trimethylbenzene	ND		0.00121	1	11/03/2015 03:45	WG826032
Vinyl chloride	ND		0.00121	1	11/03/2015 03:45	WG826032
Xylenes, Total	ND		0.00364	1	11/03/2015 03:45	WG826032
(S) Toluene-d8	*98.2*		*88.7-115*		*11/03/2015 03:45*	WG826032
(S) Dibromofluoromethane	*107*		*76.3-123*		*11/03/2015 03:45*	WG826032
(S) 4-Bromofluorobenzene	*51.6*	J2	*69.7-129*		*11/03/2015 03:45*	WG826032

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.400	10	11/04/2015 18:27	WG826186
Acenaphthylene	ND		0.400	10	11/04/2015 18:27	WG826186
Anthracene	ND		0.400	10	11/04/2015 18:27	WG826186
Benzidine	ND	J	4.04	10	11/04/2015 18:27	WG826186
Benzo(a)anthracene	0.784		0.400	10	11/04/2015 18:27	WG826186
Benzo(b)fluoranthene	1.05		0.400	10	11/04/2015 18:27	WG826186
Benzo(k)fluoranthene	0.409		0.400	10	11/04/2015 18:27	WG826186
Benzo(g,h,i)perylene	0.535		0.400	10	11/04/2015 18:27	WG826186
Benzo(a)pyrene	0.815		0.400	10	11/04/2015 18:27	WG826186
Bis(2-chlorethoxy)methane	ND		4.04	10	11/04/2015 18:27	WG826186
Bis(2-chloroethyl)ether	ND	J3	4.04	10	11/04/2015 18:27	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	4.04	10	11/04/2015 18:27	WG826186
4-Bromophenyl-phenylether	ND		4.04	10	11/04/2015 18:27	WG826186
2-Chloronaphthalene	ND		0.400	10	11/04/2015 18:27	WG826186
4-Chlorophenyl-phenylether	ND		4.04	10	11/04/2015 18:27	WG826186
Chrysene	0.742		0.400	10	11/04/2015 18:27	WG826186
Dibenz(a,h)anthracene	ND		0.400	10	11/04/2015 18:27	WG826186
3,3-Dichlorobenzidine	ND		4.04	10	11/04/2015 18:27	WG826186
2,4-Dinitrotoluene	ND		4.04	10	11/04/2015 18:27	WG826186
2,6-Dinitrotoluene	ND		4.04	10	11/04/2015 18:27	WG826186
Fluoranthene	1.77		0.400	10	11/04/2015 18:27	WG826186
Fluorene	ND		0.400	10	11/04/2015 18:27	WG826186
Hexachlorobenzene	ND		4.04	10	11/04/2015 18:27	WG826186
Hexachloro-1,3-butadiene	ND	J3	4.04	10	11/04/2015 18:27	WG826186
Hexachlorocyclopentadiene	ND		4.04	10	11/04/2015 18:27	WG826186
Hexachloroethane	ND	J3	4.04	10	11/04/2015 18:27	WG826186
Indeno(1,2,3-cd)pyrene	0.446		0.400	10	11/04/2015 18:27	WG826186
Isophorone	ND		4.04	10	11/04/2015 18:27	WG826186
Naphthalene	ND		0.400	10	11/04/2015 18:27	WG826186
Nitrobenzene	ND		4.04	10	11/04/2015 18:27	WG826186
n-Nitrosodimethylamine	ND	J3	4.04	10	11/04/2015 18:27	WG826186
n-Nitrosodiphenylamine	ND		4.04	10	11/04/2015 18:27	WG826186
n-Nitrosodi-n-propylamine	ND		4.04	10	11/04/2015 18:27	WG826186
Phenanthrene	1.08		0.400	10	11/04/2015 18:27	WG826186
Benzylbutyl phthalate	ND		4.04	10	11/04/2015 18:27	WG826186
Bis(2-ethylhexyl)phthalate	ND		4.04	10	11/04/2015 18:27	WG826186
Di-n-butyl phthalate	ND		4.04	10	11/04/2015 18:27	WG826186
Diethyl phthalate	ND		4.04	10	11/04/2015 18:27	WG826186
Dimethyl phthalate	ND		4.04	10	11/04/2015 18:27	WG826186
Di-n-octyl phthalate	ND		4.04	10	11/04/2015 18:27	WG826186
Pyrene	1.16		0.400	10	11/04/2015 18:27	WG826186
1,2,4-Trichlorobenzene	ND		4.04	10	11/04/2015 18:27	WG826186
4-Chloro-3-methylphenol	ND		4.04	10	11/04/2015 18:27	WG826186
2-Chlorophenol	ND	J3	4.04	10	11/04/2015 18:27	WG826186
2,4-Dichlorophenol	ND		4.04	10	11/04/2015 18:27	WG826186
2,4-Dimethylphenol	ND		4.04	10	11/04/2015 18:27	WG826186
4,6-Dinitro-2-methylphenol	ND		4.04	10	11/04/2015 18:27	WG826186
2,4-Dinitrophenol	ND		4.04	10	11/04/2015 18:27	WG826186
2-Nitrophenol	ND		4.04	10	11/04/2015 18:27	WG826186
4-Nitrophenol	ND		4.04	10	11/04/2015 18:27	WG826186
Pentachlorophenol	ND	J	4.04	10	11/04/2015 18:27	WG826186
Phenol	ND		4.04	10	11/04/2015 18:27	WG826186
2,4,6-Trichlorophenol	ND		4.04	10	11/04/2015 18:27	WG826186
(S) 2-Fluorophenol	*70.2*		*21.1-116*		*11/04/2015 18:27*	WG826186
(S) Phenol-d5	*70.3*		*26.3-121*		*11/04/2015 18:27*	WG826186
(S) Nitrobenzene-d5	*78.6*		*21.9-129*		*11/04/2015 18:27*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*78.8*		*34.9-129*		*11/04/2015 18:27*	WG826186
(S) 2,4,6-Tribromophenol	*73.2*		*21.6-142*		*11/04/2015 18:27*	WG826186
(S) p-Terphenyl-d14	*54.7*		*21.5-128*		*11/04/2015 18:27*	WG826186

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.4		1	11/04/2015 09:50	WG826479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0182	5	11/06/2015 13:41	WG826296
(S) Toluene-d8	*103*		*70.0-130*		*11/06/2015 13:41*	WG826296

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	11/04/2015 09:51	WG826479

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		6.11	1	11/06/2015 11:23	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	4.30		1.22	1	11/06/2015 01:46	WG826741
Sulfate	ND		61.1	1	11/06/2015 01:46	WG826741

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.180	J3 J6	0.0244	1	11/04/2015 17:29	WG826537

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	6.06		0.611	5	11/05/2015 15:56	WG826627
Arsenic	7.40		0.611	5	11/05/2015 15:56	WG826627
Beryllium	ND		0.611	5	11/05/2015 15:56	WG826627
Cadmium	5.79		0.611	5	11/05/2015 15:56	WG826627
Chromium	26.3		0.611	5	11/05/2015 15:56	WG826627
Copper	149		24.4	100	11/05/2015 17:20	WG826627
Iron	37900		2440	200	11/05/2015 17:23	WG826627
Lead	372		12.2	100	11/05/2015 17:20	WG826627
Manganese	529		24.4	100	11/05/2015 17:20	WG826627
Nickel	25.5		0.611	5	11/05/2015 15:56	WG826627
Selenium	0.730		0.611	5	11/05/2015 15:56	WG826627
Silver	ND		1.22	5	11/05/2015 15:56	WG826627
Thallium	ND		0.611	5	11/05/2015 15:56	WG826627
Zinc	1120		122	100	11/05/2015 17:20	WG826627

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.181		0.0611	1	11/03/2015 04:05	WG826032
Acrylonitrile	ND		0.0122	1	11/03/2015 04:05	WG826032
Benzene	0.00759		0.00122	1	11/03/2015 04:05	WG826032
Bromobenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
Bromodichloromethane	ND		0.00122	1	11/03/2015 04:05	WG826032
Bromoform	ND		0.00122	1	11/03/2015 04:05	WG826032
Bromomethane	ND		0.00611	1	11/03/2015 04:05	WG826032
n-Butylbenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
sec-Butylbenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
tert-Butylbenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
Carbon tetrachloride	ND		0.00122	1	11/03/2015 04:05	WG826032
Chlorobenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
Chlorodibromomethane	ND		0.00122	1	11/03/2015 04:05	WG826032
Chloroethane	ND		0.00611	1	11/03/2015 04:05	WG826032

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.0611	1	11/03/2015 04:05	WG826032
Chloroform	ND		0.00611	1	11/03/2015 04:05	WG826032
Chloromethane	ND		0.00305	1	11/03/2015 04:05	WG826032
2-Chlorotoluene	ND		0.00122	1	11/03/2015 04:05	WG826032
4-Chlorotoluene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,2-Dibromo-3-Chloropropane	ND		0.00611	1	11/03/2015 04:05	WG826032
1,2-Dibromoethane	ND		0.00122	1	11/03/2015 04:05	WG826032
Dibromomethane	ND		0.00122	1	11/03/2015 04:05	WG826032
1,2-Dichlorobenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,3-Dichlorobenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,4-Dichlorobenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
Dichlorodifluoromethane	ND		0.00611	1	11/03/2015 04:05	WG826032
1,1-Dichloroethane	ND		0.00122	1	11/03/2015 04:05	WG826032
1,2-Dichloroethane	ND		0.00122	1	11/03/2015 04:05	WG826032
1,1-Dichloroethene	ND		0.00122	1	11/03/2015 04:05	WG826032
cis-1,2-Dichloroethene	ND		0.00122	1	11/03/2015 04:05	WG826032
trans-1,2-Dichloroethene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,2-Dichloropropane	ND		0.00122	1	11/03/2015 04:05	WG826032
1,1-Dichloropropene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,3-Dichloropropane	ND		0.00122	1	11/03/2015 04:05	WG826032
cis-1,3-Dichloropropene	ND		0.00122	1	11/03/2015 04:05	WG826032
trans-1,3-Dichloropropene	ND		0.00122	1	11/03/2015 04:05	WG826032
2,2-Dichloropropane	ND		0.00122	1	11/03/2015 04:05	WG826032
Di-isopropyl ether	ND		0.00122	1	11/03/2015 04:05	WG826032
Ethylbenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
Hexachloro-1,3-butadiene	ND		0.00122	1	11/03/2015 04:05	WG826032
Isopropylbenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
p-Isopropyltoluene	ND		0.00122	1	11/03/2015 04:05	WG826032
2-Butanone (MEK)	0.0194		0.0122	1	11/03/2015 04:05	WG826032
Methylene Chloride	ND		0.00611	1	11/03/2015 04:05	WG826032
4-Methyl-2-pentanone (MIBK)	ND		0.0122	1	11/03/2015 04:05	WG826032
Methyl tert-butyl ether	ND		0.00122	1	11/03/2015 04:05	WG826032
Naphthalene	ND		0.00611	1	11/03/2015 04:05	WG826032
n-Propylbenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
Styrene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,1,1,2-Tetrachloroethane	ND		0.00122	1	11/03/2015 04:05	WG826032
1,1,2,2-Tetrachloroethane	ND		0.00122	1	11/03/2015 04:05	WG826032
Tetrachloroethene	0.00153		0.00122	1	11/03/2015 04:05	WG826032
Toluene	ND		0.00611	1	11/03/2015 04:05	WG826032
1,2,3-Trichlorobenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,2,4-Trichlorobenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,1,1-Trichloroethane	ND		0.00122	1	11/03/2015 04:05	WG826032
1,1,2-Trichloroethane	ND		0.00122	1	11/03/2015 04:05	WG826032
1,1,2-Trichlorotrifluoroethane	ND		0.00122	1	11/03/2015 04:05	WG826032
Trichloroethene	ND		0.00122	1	11/03/2015 04:05	WG826032
Trichlorofluoromethane	ND		0.00611	1	11/03/2015 04:05	WG826032
1,2,3-Trichloropropane	ND		0.00305	1	11/03/2015 04:05	WG826032
1,2,4-Trimethylbenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
1,3,5-Trimethylbenzene	ND		0.00122	1	11/03/2015 04:05	WG826032
Vinyl chloride	ND		0.00122	1	11/03/2015 04:05	WG826032
Xylenes, Total	ND		0.00366	1	11/03/2015 04:05	WG826032
(S) Toluene-d8	*98.1*		*88.7-115*		*11/03/2015 04:05*	WG826032
(S) Dibromofluoromethane	*106*		*76.3-123*		*11/03/2015 04:05*	WG826032
(S) 4-Bromofluorobenzene	*52.8*	J2	*69.7-129*		*11/03/2015 04:05*	WG826032

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.403	10	11/04/2015 18:51	WG826186
Acenaphthylene	ND		0.403	10	11/04/2015 18:51	WG826186
Anthracene	ND		0.403	10	11/04/2015 18:51	WG826186
Benzidine	ND	J	4.07	10	11/04/2015 18:51	WG826186
Benzo(a)anthracene	0.651		0.403	10	11/04/2015 18:51	WG826186
Benzo(b)fluoranthene	0.978		0.403	10	11/04/2015 18:51	WG826186
Benzo(k)fluoranthene	ND		0.403	10	11/04/2015 18:51	WG826186
Benzo(g,h,i)perylene	0.413		0.403	10	11/04/2015 18:51	WG826186
Benzo(a)pyrene	0.738		0.403	10	11/04/2015 18:51	WG826186
Bis(2-chlorethoxy)methane	ND		4.07	10	11/04/2015 18:51	WG826186
Bis(2-chloroethyl)ether	ND	J3	4.07	10	11/04/2015 18:51	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	4.07	10	11/04/2015 18:51	WG826186
4-Bromophenyl-phenylether	ND		4.07	10	11/04/2015 18:51	WG826186
2-Chloronaphthalene	ND		0.403	10	11/04/2015 18:51	WG826186
4-Chlorophenyl-phenylether	ND		4.07	10	11/04/2015 18:51	WG826186
Chrysene	0.626		0.403	10	11/04/2015 18:51	WG826186
Dibenz(a,h)anthracene	ND		0.403	10	11/04/2015 18:51	WG826186
3,3-Dichlorobenzidine	ND		4.07	10	11/04/2015 18:51	WG826186
2,4-Dinitrotoluene	ND		4.07	10	11/04/2015 18:51	WG826186
2,6-Dinitrotoluene	ND		4.07	10	11/04/2015 18:51	WG826186
Fluoranthene	1.21		0.403	10	11/04/2015 18:51	WG826186
Fluorene	ND		0.403	10	11/04/2015 18:51	WG826186
Hexachlorobenzene	ND		4.07	10	11/04/2015 18:51	WG826186
Hexachloro-1,3-butadiene	ND	J3	4.07	10	11/04/2015 18:51	WG826186
Hexachlorocyclopentadiene	ND		4.07	10	11/04/2015 18:51	WG826186
Hexachloroethane	ND	J3	4.07	10	11/04/2015 18:51	WG826186
Indeno(1,2,3-cd)pyrene	ND		0.403	10	11/04/2015 18:51	WG826186
Isophorone	ND		4.07	10	11/04/2015 18:51	WG826186
Naphthalene	ND		0.403	10	11/04/2015 18:51	WG826186
Nitrobenzene	ND		4.07	10	11/04/2015 18:51	WG826186
n-Nitrosodimethylamine	ND	J3	4.07	10	11/04/2015 18:51	WG826186
n-Nitrosodiphenylamine	ND		4.07	10	11/04/2015 18:51	WG826186
n-Nitrosodi-n-propylamine	ND		4.07	10	11/04/2015 18:51	WG826186
Phenanthrene	0.661		0.403	10	11/04/2015 18:51	WG826186
Benzylbutyl phthalate	ND		4.07	10	11/04/2015 18:51	WG826186
Bis(2-ethylhexyl)phthalate	ND		4.07	10	11/04/2015 18:51	WG826186
Di-n-butyl phthalate	ND		4.07	10	11/04/2015 18:51	WG826186
Diethyl phthalate	ND		4.07	10	11/04/2015 18:51	WG826186
Dimethyl phthalate	ND		4.07	10	11/04/2015 18:51	WG826186
Di-n-octyl phthalate	ND		4.07	10	11/04/2015 18:51	WG826186
Pyrene	0.768		0.403	10	11/04/2015 18:51	WG826186
1,2,4-Trichlorobenzene	ND		4.07	10	11/04/2015 18:51	WG826186
4-Chloro-3-methylphenol	ND		4.07	10	11/04/2015 18:51	WG826186
2-Chlorophenol	ND	J3	4.07	10	11/04/2015 18:51	WG826186
2,4-Dichlorophenol	ND		4.07	10	11/04/2015 18:51	WG826186
2,4-Dimethylphenol	ND		4.07	10	11/04/2015 18:51	WG826186
4,6-Dinitro-2-methylphenol	ND		4.07	10	11/04/2015 18:51	WG826186
2,4-Dinitrophenol	ND		4.07	10	11/04/2015 18:51	WG826186
2-Nitrophenol	ND		4.07	10	11/04/2015 18:51	WG826186
4-Nitrophenol	ND		4.07	10	11/04/2015 18:51	WG826186
Pentachlorophenol	ND	J	4.07	10	11/04/2015 18:51	WG826186
Phenol	ND		4.07	10	11/04/2015 18:51	WG826186
2,4,6-Trichlorophenol	ND		4.07	10	11/04/2015 18:51	WG826186
(S) 2-Fluorophenol	*69.2*		*21.1-116*		*11/04/2015 18:51*	WG826186
(S) Phenol-d5	*67.0*		*26.3-121*		*11/04/2015 18:51*	WG826186
(S) Nitrobenzene-d5	*70.1*		*21.9-129*		*11/04/2015 18:51*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*73.3*		*34.9-129*		*11/04/2015 18:51*	WG826186
(S) 2,4,6-Tribromophenol	*75.5*		*21.6-142*		*11/04/2015 18:51*	WG826186
(S) p-Terphenyl-d14	*53.4*		*21.5-128*		*11/04/2015 18:51*	WG826186

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	11/04/2015 09:51	WG826479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0183	5	11/06/2015 14:00	WG826296
(S) Toluene-d8	*106*		*70.0-130*		*11/06/2015 14:00*	WG826296

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.2		1	11/04/2015 09:51	WG826479

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		6.15	1	11/06/2015 11:29	WG826808

Wet Chemistry by Method 9056MOD

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate	ND		1.23	1	11/06/2015 02:10	WG826741
Sulfate	76.9		61.5	1	11/06/2015 02:10	WG826741

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0667		0.0246	1	11/04/2015 17:52	WG826537

Metals (ICPMS) by Method 6020

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		0.615	5	11/05/2015 15:59	WG826627
Arsenic	1.74		0.615	5	11/05/2015 15:59	WG826627
Beryllium	ND		1.23	10	11/05/2015 16:41	WG826627
Cadmium	ND		0.615	5	11/05/2015 15:59	WG826627
Chromium	22.5		0.615	5	11/05/2015 15:59	WG826627
Copper	7.51		1.23	5	11/05/2015 15:59	WG826627
Iron	28500		2460	200	11/05/2015 17:25	WG826627
Lead	15.8		0.615	5	11/05/2015 15:59	WG826627
Manganese	54.8		1.23	5	11/05/2015 15:59	WG826627
Nickel	3.42		0.615	5	11/05/2015 15:59	WG826627
Selenium	ND		0.615	5	11/05/2015 15:59	WG826627
Silver	ND		1.23	5	11/05/2015 15:59	WG826627
Thallium	ND		0.615	5	11/05/2015 15:59	WG826627
Zinc	28.4		6.15	5	11/05/2015 15:59	WG826627

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.234		0.0634	1.03	11/03/2015 04:25	WG826032
Acrylonitrile	ND		0.0127	1.03	11/03/2015 04:25	WG826032
Benzene	0.00662		0.00127	1.03	11/03/2015 04:25	WG826032
Bromobenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Bromodichloromethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Bromoform	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Bromomethane	ND		0.00634	1.03	11/03/2015 04:25	WG826032
n-Butylbenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
sec-Butylbenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
tert-Butylbenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Carbon tetrachloride	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Chlorobenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Chlorodibromomethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Chloroethane	ND		0.00634	1.03	11/03/2015 04:25	WG826032

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		0.0634	1.03	11/03/2015 04:25	WG826032
Chloroform	ND		0.00634	1.03	11/03/2015 04:25	WG826032
Chloromethane	ND		0.00317	1.03	11/03/2015 04:25	WG826032
2-Chlorotoluene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
4-Chlorotoluene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,2-Dibromo-3-Chloropropane	ND		0.00634	1.03	11/03/2015 04:25	WG826032
1,2-Dibromoethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Dibromomethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,2-Dichlorobenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,3-Dichlorobenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,4-Dichlorobenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Dichlorodifluoromethane	ND		0.00634	1.03	11/03/2015 04:25	WG826032
1,1-Dichloroethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,2-Dichloroethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,1-Dichloroethene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
cis-1,2-Dichloroethene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
trans-1,2-Dichloroethene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,2-Dichloropropane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,1-Dichloropropene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,3-Dichloropropane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
cis-1,3-Dichloropropene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
trans-1,3-Dichloropropene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
2,2-Dichloropropane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Di-isopropyl ether	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Ethylbenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Hexachloro-1,3-butadiene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Isopropylbenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
p-Isopropyltoluene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
2-Butanone (MEK)	0.0318		0.0127	1.03	11/03/2015 04:25	WG826032
Methylene Chloride	ND		0.00634	1.03	11/03/2015 04:25	WG826032
4-Methyl-2-pentanone (MIBK)	ND		0.0127	1.03	11/03/2015 04:25	WG826032
Methyl tert-butyl ether	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Naphthalene	ND		0.00634	1.03	11/03/2015 04:25	WG826032
n-Propylbenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Styrene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,1,1,2-Tetrachloroethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,1,2,2-Tetrachloroethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Tetrachloroethene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Toluene	ND		0.00634	1.03	11/03/2015 04:25	WG826032
1,2,3-Trichlorobenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,2,4-Trichlorobenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,1,1-Trichloroethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,1,2-Trichloroethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,1,2-Trichlorotrifluoroethane	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Trichloroethene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Trichlorofluoromethane	ND		0.00634	1.03	11/03/2015 04:25	WG826032
1,2,3-Trichloropropane	ND		0.00317	1.03	11/03/2015 04:25	WG826032
1,2,4-Trimethylbenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
1,3,5-Trimethylbenzene	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Vinyl chloride	ND		0.00127	1.03	11/03/2015 04:25	WG826032
Xylenes, Total	ND		0.00380	1.03	11/03/2015 04:25	WG826032
(S) Toluene-d8	*102*		*88.7-115*		*11/03/2015 04:25*	WG826032
(S) Dibromofluoromethane	*103*		*76.3-123*		*11/03/2015 04:25*	WG826032
(S) 4-Bromofluorobenzene	*64.0*	J2	*69.7-129*		*11/03/2015 04:25*	WG826032

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.0406	1	11/04/2015 17:39	WG826186
Acenaphthylene	ND		0.0406	1	11/04/2015 17:39	WG826186
Anthracene	ND		0.0406	1	11/04/2015 17:39	WG826186
Benzidine	ND	J	0.410	1	11/04/2015 17:39	WG826186
Benzo(a)anthracene	ND		0.0406	1	11/04/2015 17:39	WG826186
Benzo(b)fluoranthene	ND		0.0406	1	11/04/2015 17:39	WG826186
Benzo(k)fluoranthene	ND		0.0406	1	11/04/2015 17:39	WG826186
Benzo(g,h,i)perylene	ND		0.0406	1	11/04/2015 17:39	WG826186
Benzo(a)pyrene	ND		0.0406	1	11/04/2015 17:39	WG826186
Bis(2-chlorethoxy)methane	ND		0.410	1	11/04/2015 17:39	WG826186
Bis(2-chloroethyl)ether	ND	J3	0.410	1	11/04/2015 17:39	WG826186
Bis(2-chloroisopropyl)ether	ND	J3	0.410	1	11/04/2015 17:39	WG826186
4-Bromophenyl-phenylether	ND		0.410	1	11/04/2015 17:39	WG826186
2-Chloronaphthalene	ND		0.0406	1	11/04/2015 17:39	WG826186
4-Chlorophenyl-phenylether	ND		0.410	1	11/04/2015 17:39	WG826186
Chrysene	ND		0.0406	1	11/04/2015 17:39	WG826186
Dibenz(a,h)anthracene	ND		0.0406	1	11/04/2015 17:39	WG826186
3,3-Dichlorobenzidine	ND		0.410	1	11/04/2015 17:39	WG826186
2,4-Dinitrotoluene	ND		0.410	1	11/04/2015 17:39	WG826186
2,6-Dinitrotoluene	ND		0.410	1	11/04/2015 17:39	WG826186
Fluoranthene	ND		0.0406	1	11/04/2015 17:39	WG826186
Fluorene	ND		0.0406	1	11/04/2015 17:39	WG826186
Hexachlorobenzene	ND		0.410	1	11/04/2015 17:39	WG826186
Hexachloro-1,3-butadiene	ND	J3	0.410	1	11/04/2015 17:39	WG826186
Hexachlorocyclopentadiene	ND		0.410	1	11/04/2015 17:39	WG826186
Hexachloroethane	ND	J3	0.410	1	11/04/2015 17:39	WG826186
Indeno(1,2,3-cd)pyrene	ND		0.0406	1	11/04/2015 17:39	WG826186
Isophorone	ND		0.410	1	11/04/2015 17:39	WG826186
Naphthalene	ND		0.0406	1	11/04/2015 17:39	WG826186
Nitrobenzene	ND		0.410	1	11/04/2015 17:39	WG826186
n-Nitrosodimethylamine	ND	J3	0.410	1	11/04/2015 17:39	WG826186
n-Nitrosodiphenylamine	ND		0.410	1	11/04/2015 17:39	WG826186
n-Nitrosodi-n-propylamine	ND		0.410	1	11/04/2015 17:39	WG826186
Phenanthrene	ND		0.0406	1	11/04/2015 17:39	WG826186
Benzylbutyl phthalate	ND		0.410	1	11/04/2015 17:39	WG826186
Bis(2-ethylhexyl)phthalate	ND		0.410	1	11/04/2015 17:39	WG826186
Di-n-butyl phthalate	ND		0.410	1	11/04/2015 17:39	WG826186
Diethyl phthalate	ND		0.410	1	11/04/2015 17:39	WG826186
Dimethyl phthalate	ND		0.410	1	11/04/2015 17:39	WG826186
Di-n-octyl phthalate	ND		0.410	1	11/04/2015 17:39	WG826186
Pyrene	ND	J	0.0406	1	11/04/2015 17:39	WG826186
1,2,4-Trichlorobenzene	ND		0.410	1	11/04/2015 17:39	WG826186
4-Chloro-3-methylphenol	ND		0.410	1	11/04/2015 17:39	WG826186
2-Chlorophenol	ND	J3	0.410	1	11/04/2015 17:39	WG826186
2,4-Dichlorophenol	ND		0.410	1	11/04/2015 17:39	WG826186
2,4-Dimethylphenol	ND		0.410	1	11/04/2015 17:39	WG826186
4,6-Dinitro-2-methylphenol	ND		0.410	1	11/04/2015 17:39	WG826186
2,4-Dinitrophenol	ND		0.410	1	11/04/2015 17:39	WG826186
2-Nitrophenol	ND		0.410	1	11/04/2015 17:39	WG826186
4-Nitrophenol	ND		0.410	1	11/04/2015 17:39	WG826186
Pentachlorophenol	ND	J	0.410	1	11/04/2015 17:39	WG826186
Phenol	ND		0.410	1	11/04/2015 17:39	WG826186
2,4,6-Trichlorophenol	ND		0.410	1	11/04/2015 17:39	WG826186
(S) 2-Fluorophenol	*74.9*		*21.1-116*		*11/04/2015 17:39*	WG826186
(S) Phenol-d5	*72.9*		*26.3-121*		*11/04/2015 17:39*	WG826186
(S) Nitrobenzene-d5	*76.9*		*21.9-129*		*11/04/2015 17:39*	WG826186

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*75.7*		*34.9-129*		*11/04/2015 17:39*	WG826186
(S) 2,4,6-Tribromophenol	*89.8*		*21.6-142*		*11/04/2015 17:39*	WG826186
(S) p-Terphenyl-d14	*63.9*		*21.5-128*		*11/04/2015 17:39*	WG826186

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.2		1	11/04/2015 09:51	WG826479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		0.0185	5	11/06/2015 14:19	WG826296
(S) Toluene-d8	*101*		*70.0-130*		*11/06/2015 14:19*	WG826296

Method Blank (MB)

(MB) 11/04/15 09:49

Analyte	MB Result	MB Qualifier	MB RDL
	%		%
Total Solids	0.000300		

L798248-01 Original Sample (OS) • Duplicate (DUP)

(OS) 11/04/15 09:51 • (DUP) 11/04/15 09:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	82.7	81.9	1	0.924		5

Laboratory Control Sample (LCS)

(LCS) 11/04/15 09:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) 11/06/15 11:06

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Ammonia Nitrogen	ND		5.00

L798115-05 Original Sample (OS) • Duplicate (DUP)

(OS) 11/06/15 11:27 • (DUP) 11/06/15 11:28

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		20

L797680-07 Original Sample (OS) • Duplicate (DUP)

(OS) 11/06/15 11:12 • (DUP) 11/06/15 11:13

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	10.2	11.2	1	9.35		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/06/15 11:09 • (LCSD) 11/06/15 11:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	514	452	458	87.9	89.1	70.0-130			1.32	20

L798115-07 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/06/15 11:21 • (MS) 11/06/15 11:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	500	3.73	432	86.4	1	80.0-120	

L798115-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/06/15 11:29 • (MS) 11/06/15 11:30 • (MSD) 11/06/15 11:31

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	500	ND	426	411	85.2	82.2	1	80.0-120			3.58	20

Method Blank (MB)

(MB) 11/05/15 16:34

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Nitrate	ND		1.00
Sulfate	ND		50.0

L797852-08 Original Sample (OS) • Duplicate (DUP)

(OS) 11/05/15 18:35 • (DUP) 11/05/15 18:59

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.906	0.908	1	0		20
Sulfate	145	145	1	0		20

L798366-01 Original Sample (OS) • Duplicate (DUP)

(OS) 11/06/15 04:09 • (DUP) 11/06/15 04:33

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	27.6	27.7	1	0		20
Sulfate	186	186	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/05/15 16:58 • (LCSD) 11/05/15 17:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate	20.0	20.7	20.6	103	103	80-120			0	20
Sulfate	200	210	210	105	105	80-120			0	20

L797852-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/05/15 19:23 • (MS) 11/05/15 19:47 • (MSD) 11/05/15 20:11

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	50.0	0.946	55.3	55.3	109	109	1	80-120			0	20
Sulfate	500	8.73	549	551	108	108	1	80-120			0	20

Method Blank (MB)

(MB) 11/04/15 17:22

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Mercury	ND		0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 17:24 • (LCSD) 11/04/15 17:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.275	0.275	92	92	80-120			0	20

L798115-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/04/15 17:29 • (MS) 11/04/15 17:32 • (MSD) 11/04/15 17:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.147	0.445	0.0153	99	0	1	75-125		J3 J6	187	20

Method Blank (MB)

(MB) 11/05/15 15:21

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		0.500
Arsenic	ND		0.500
Beryllium	ND		0.500
Cadmium	ND		0.500
Chromium	ND		0.500
Copper	ND		1.00
Iron	ND		50.0
Lead	ND		0.500
Manganese	ND		1.00
Nickel	ND		0.500
Selenium	ND		0.500
Silver	ND		1.00
Thallium	ND		0.500
Zinc	ND		5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/05/15 15:24 • (LCSD) 11/05/15 15:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	115	108	115	108	80-120			6	20
Arsenic	100	102	94.5	102	94	80-120			8	20
Beryllium	100	99.9	96.5	100	96	80-120			4	20
Cadmium	100	106	98.6	106	99	80-120			8	20
Chromium	100	108	101	108	101	80-120			6	20
Copper	100	108	102	108	102	80-120			6	20
Iron	1000	1060	993	106	99	80-120			7	20
Lead	100	105	99.5	105	99	80-120			6	20
Manganese	100	106	99.3	106	99	80-120			6	20
Nickel	100	109	101	109	101	80-120			8	20
Selenium	100	104	97.9	104	98	80-120			6	20
Silver	100	107	102	107	102	80-120			5	20
Thallium	100	105	97.5	105	97	80-120			8	20
Zinc	100	104	98.1	104	98	80-120			6	20

L796586-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/05/15 15:28 • (MS) 11/05/15 15:35 • (MSD) 11/05/15 15:37

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	20.0	0.431	99.2	93.5	99	93	5	75-125			6	20
Arsenic	20.0	2.55	99.4	93.4	97	91	5	75-125			6	20
Beryllium	20.0	0.337	100	93.7	100	93	5	75-125			7	20
Cadmium	20.0	0.543	101	95.8	100	95	5	75-125			5	20
Chromium	20.0	7.48	110	105	103	97	5	75-125			5	20
Copper	20.0	15.7	118	111	102	96	5	75-125			6	20
Iron	200	4350	5600	5400	125	105	5	75-125			4	20
Lead	20.0	219	285	220	66	1	5	75-125	J6	J3 J6	26	20
Manganese	20.0	169	241	223	73	55	5	75-125	J6	J6	8	20
Nickel	20.0	5.70	108	101	102	96	5	75-125			6	20
Selenium	20.0	0.290	97.9	92.7	98	92	5	75-125			5	20
Silver	20.0	0.276	104	98.0	104	98	5	75-125			6	20
Thallium	20.0	0.113	96.1	88.9	96	89	5	75-125			8	20
Zinc	20.0	137	236	215	99	78	5	75-125			9	20

Method Blank (MB)

(MB) 11/02/15 18:52

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Acetone	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100
trans-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 11/02/15 18:52

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*104*		*88.7-115*
(S) Dibromofluoromethane	*96.7*		*76.3-123*
(S) 4-Bromofluorobenzene	*92.7*		*69.7-129*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/02/15 17:33 • (LCSD) 11/02/15 17:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.154	0.149	123	119	25.3-178			3.60	22.9
Acrylonitrile	0.125	0.127	0.128	101	103	57.8-143			1.19	20
Benzene	0.0250	0.0219	0.0234	87.7	93.6	72.6-120			6.46	20
Bromobenzene	0.0250	0.0230	0.0241	91.9	96.2	80.3-115			4.61	20
Bromodichloromethane	0.0250	0.0224	0.0228	89.8	91.2	75.3-119			1.50	20
Bromoform	0.0250	0.0253	0.0267	101	107	69.1-135			5.52	20
Bromomethane	0.0250	0.0220	0.0231	88.2	92.5	23.0-191			4.73	20
n-Butylbenzene	0.0250	0.0230	0.0236	92.2	94.5	74.2-134			2.46	20
sec-Butylbenzene	0.0250	0.0236	0.0250	94.4	99.8	77.8-129			5.56	20
tert-Butylbenzene	0.0250	0.0231	0.0246	92.3	98.2	77.2-129			6.17	20
Carbon tetrachloride	0.0250	0.0206	0.0223	82.2	89.1	69.4-129			8.03	20
Chlorobenzene	0.0250	0.0240	0.0254	96.1	102	78.9-122			5.52	20
Chlorodibromomethane	0.0250	0.0244	0.0247	97.5	98.7	76.4-126			1.21	20
Chloroethane	0.0250	0.0219	0.0226	87.6	90.4	47.2-147			3.16	20
2-Chloroethyl vinyl ether	0.125	0.106	0.113	85.2	90.5	16.7-162			6.07	23.7
Chloroform	0.0250	0.0202	0.0216	80.9	86.4	73.3-122			6.68	20
Chloromethane	0.0250	0.0210	0.0222	84.0	88.9	53.1-135			5.66	20
2-Chlorotoluene	0.0250	0.0226	0.0232	90.3	92.6	74.6-127			2.54	20
4-Chlorotoluene	0.0250	0.0225	0.0236	89.9	94.6	79.5-123			5.05	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0211	0.0224	84.4	89.4	64.9-131			5.79	20
1,2-Dibromoethane	0.0250	0.0235	0.0241	94.1	96.6	78.7-123			2.56	20
Dibromomethane	0.0250	0.0232	0.0247	92.9	98.8	78.5-117			6.09	20
1,2-Dichlorobenzene	0.0250	0.0229	0.0234	91.6	93.5	83.6-119			2.07	20
1,3-Dichlorobenzene	0.0250	0.0238	0.0256	95.0	103	75.9-129			7.63	20
1,4-Dichlorobenzene	0.0250	0.0230	0.0233	91.9	93.0	81.0-115			1.25	20
Dichlorodifluoromethane	0.0250	0.0195	0.0211	78.1	84.4	50.9-139			7.75	20
1,1-Dichloroethane	0.0250	0.0216	0.0237	86.6	94.6	71.7-125			8.85	20
1,2-Dichloroethane	0.0250	0.0194	0.0205	77.5	81.9	67.2-121			5.58	20
1,1-Dichloroethene	0.0250	0.0231	0.0261	92.4	105	60.6-133			12.3	20
cis-1,2-Dichloroethene	0.0250	0.0213	0.0225	85.2	90.0	76.1-121			5.42	20
trans-1,2-Dichloroethene	0.0250	0.0213	0.0235	85.3	93.8	70.7-124			9.47	20
1,2-Dichloropropane	0.0250	0.0261	0.0269	104	108	76.9-123			3.02	20
1,1-Dichloropropene	0.0250	0.0212	0.0229	84.8	91.5	71.2-126			7.63	20
1,3-Dichloropropane	0.0250	0.0236	0.0240	94.2	96.0	80.3-114			1.92	20
cis-1,3-Dichloropropene	0.0250	0.0240	0.0253	96.2	101	77.3-123			4.99	20
trans-1,3-Dichloropropene	0.0250	0.0246	0.0250	98.3	100	73.0-127			1.84	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/02/15 17:33 • (LCSD) 11/02/15 17:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	0.0197	0.0212	78.6	84.7	61.9-132			7.43	20
Di-isopropyl ether	0.0250	0.0224	0.0243	89.6	97.3	67.2-131			8.26	20
Ethylbenzene	0.0250	0.0234	0.0245	93.7	98.1	78.6-124			4.64	20
Hexachloro-1,3-butadiene	0.0250	0.0232	0.0247	92.7	98.8	69.2-136			6.35	20
Isopropylbenzene	0.0250	0.0233	0.0247	93.1	99.0	79.4-126			6.16	20
p-Isopropyltoluene	0.0250	0.0235	0.0251	94.2	100	75.4-132			6.22	20
2-Butanone (MEK)	0.125	0.137	0.140	109	112	44.5-154			2.52	21.3
Methylene Chloride	0.0250	0.0219	0.0235	87.6	94.0	68.2-119			7.02	20
4-Methyl-2-pentanone (MIBK)	0.125	0.122	0.123	97.9	98.4	61.1-138			0.490	20
Methyl tert-butyl ether	0.0250	0.0206	0.0222	82.3	88.8	70.2-122			7.66	20
Naphthalene	0.0250	0.0221	0.0230	88.6	92.0	69.9-132			3.75	20
n-Propylbenzene	0.0250	0.0234	0.0252	93.6	101	80.2-124			7.55	20
Styrene	0.0250	0.0239	0.0251	95.4	100	79.4-124			4.99	20
1,1,1,2-Tetrachloroethane	0.0250	0.0232	0.0236	92.9	94.6	76.7-127			1.87	20
1,1,2,2-Tetrachloroethane	0.0250	0.0262	0.0271	105	108	78.8-124			3.30	20
Tetrachloroethene	0.0250	0.0242	0.0246	96.7	98.4	71.1-133			1.71	20
Toluene	0.0250	0.0243	0.0251	97.0	100	76.7-116			3.32	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0229	0.0256	91.6	103	62.6-138			11.3	20
1,2,3-Trichlorobenzene	0.0250	0.0240	0.0256	96.0	102	72.5-137			6.42	20
1,2,4-Trichlorobenzene	0.0250	0.0239	0.0250	95.7	99.8	74.0-137			4.24	20
1,1,1-Trichloroethane	0.0250	0.0198	0.0208	79.2	83.2	69.9-127			4.88	20
1,1,2-Trichloroethane	0.0250	0.0236	0.0242	94.5	96.9	81.9-119			2.53	20
Trichloroethene	0.0250	0.0229	0.0241	91.5	96.4	77.2-122			5.15	20
Trichlorofluoromethane	0.0250	0.0230	0.0251	92.1	100	51.5-151			8.63	20
1,2,3-Trichloropropane	0.0250	0.0238	0.0240	95.4	96.2	74.0-124			0.850	20
1,2,4-Trimethylbenzene	0.0250	0.0231	0.0246	92.3	98.3	77.1-124			6.25	20
1,3,5-Trimethylbenzene	0.0250	0.0232	0.0246	92.8	98.4	79.0-125			5.85	20
Vinyl chloride	0.0250	0.0221	0.0234	88.5	93.7	58.4-134			5.66	20
Xylenes, Total	0.0750	0.0705	0.0754	94.0	101	78.1-123			6.79	20
(S) Toluene-d8				*105*	*105*	*88.7-115*				
(S) Dibromofluoromethane				*91.8*	*94.1*	*76.3-123*				
(S) 4-Bromofluorobenzene				*91.3*	*95.3*	*69.7-129*				

Method Blank (MB)

(MB) 11/06/15 10:46

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*104*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/06/15 09:48 • (LCSD) 11/06/15 10:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0403	0.0433	80.7	86.7	70.0-130			7.16	25
(S) Toluene-d8				*100*	*100*	*70.0-130*				

L798115-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/06/15 11:06 • (MS) 11/06/15 14:39 • (MSD) 11/06/15 14:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.000890	0.262	0.273	104	109	5	0.000-200			4.25	25
(S) Toluene-d8					*99.7*	*105*		*70.0-130*				

Method Blank (MB)

(MB) 11/04/15 12:52

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Acenaphthene	ND		0.0330
Acenaphthylene	ND		0.0330
Anthracene	ND		0.0330
Benzidine	ND		0.333
Benzo(a)anthracene	ND		0.0330
Benzo(b)fluoranthene	ND		0.0330
Benzo(k)fluoranthene	ND		0.0330
Benzo(g,h,i)perylene	ND		0.0330
Benzo(a)pyrene	ND		0.0330
Bis(2-chlorethoxy)methane	ND		0.333
Bis(2-chloroethyl)ether	ND		0.333
Bis(2-chloroisopropyl)ether	ND		0.333
4-Bromophenyl-phenylether	ND		0.333
2-Chloronaphthalene	ND		0.0330
4-Chlorophenyl-phenylether	ND		0.333
Chrysene	ND		0.0330
Dibenz(a,h)anthracene	ND		0.0330
3,3-Dichlorobenzidine	ND		0.333
2,4-Dinitrotoluene	ND		0.333
2,6-Dinitrotoluene	ND		0.333
Fluoranthene	ND		0.0330
Fluorene	ND		0.0330
Hexachlorobenzene	ND		0.333
Hexachloro-1,3-butadiene	ND		0.333
Hexachlorocyclopentadiene	ND		0.333
Hexachloroethane	ND		0.333
Indeno(1,2,3-cd)pyrene	ND		0.0330
Isophorone	ND		0.333
Naphthalene	ND		0.0330
Nitrobenzene	ND		0.333
n-Nitrosodimethylamine	ND		0.333
n-Nitrosodiphenylamine	ND		0.333
n-Nitrosodi-n-propylamine	ND		0.333
Phenanthrene	ND		0.0330
Benzylbutyl phthalate	ND		0.333
Bis(2-ethylhexyl)phthalate	ND		0.333

Method Blank (MB)

(MB) 11/04/15 12:52

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Di-n-butyl phthalate	ND		0.333
Diethyl phthalate	ND		0.333
Dimethyl phthalate	ND		0.333
Di-n-octyl phthalate	ND		0.333
Pyrene	ND		0.0330
1,2,4-Trichlorobenzene	ND		0.333
4-Chloro-3-methylphenol	ND		0.333
2-Chlorophenol	ND		0.333
2,4-Dichlorophenol	ND		0.333
2,4-Dimethylphenol	ND		0.333
4,6-Dinitro-2-methylphenol	ND		0.333
2,4-Dinitrophenol	ND		0.333
2-Nitrophenol	ND		0.333
4-Nitrophenol	ND		0.333
Pentachlorophenol	ND		0.333
Phenol	ND		0.333
2,4,6-Trichlorophenol	ND		0.333
(S) Nitrobenzene-d5	*66.1*		*21.9-129*
(S) 2-Fluorobiphenyl	*63.6*		*34.9-129*
(S) p-Terphenyl-d14	*54.6*		*21.5-128*
(S) Phenol-d5	*61.7*		*26.3-121*
(S) 2-Fluorophenol	*61.7*		*21.1-116*
(S) 2,4,6-Tribromophenol	*59.7*		*21.6-142*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 12:05 • (LCSD) 11/04/15 12:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.427	0.438	64.0	65.7	48.9-107			2.57	20
Acenaphthylene	0.667	0.449	0.466	67.4	69.8	49.2-111			3.60	20
Anthracene	0.667	0.432	0.450	64.7	67.5	52.0-112			4.11	20
Benzidine	0.667	0.0301	0.0222	4.51	3.33	0.000-48.0			30.2	40
Benzo(a)anthracene	0.667	0.395	0.417	59.3	62.5	52.3-106			5.28	20
Benzo(b)fluoranthene	0.667	0.424	0.395	63.6	59.2	51.3-106			7.15	20
Benzo(k)fluoranthene	0.667	0.376	0.387	56.4	58.0	52.9-107			2.77	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 12:05 • (LCSD) 11/04/15 12:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.667	0.429	0.431	64.3	64.7	45.8-108			0.670	20
Benzo(a)pyrene	0.667	0.407	0.410	61.0	61.5	51.9-106			0.920	20
Bis(2-chlorethoxy)methane	0.667	0.398	0.423	59.6	63.3	44.9-108			6.02	20
Bis(2-chloroethyl)ether	0.667	0.321	0.427	48.2	64.0	32.5-112		J3	28.3	26
Bis(2-chloroisopropyl)ether	0.667	0.363	0.467	54.4	70.0	40.4-99.0		J3	25.2	20.7
4-Bromophenyl-phenylether	0.667	0.441	0.464	66.1	69.6	51.4-110			5.17	20
2-Chloronaphthalene	0.667	0.457	0.477	68.6	71.6	47.1-105			4.25	20
4-Chlorophenyl-phenylether	0.667	0.444	0.449	66.6	67.3	48.1-108			1.12	20
Chrysene	0.667	0.373	0.402	55.9	60.2	54.4-110			7.42	20
Dibenz(a,h)anthracene	0.667	0.415	0.415	62.2	62.2	45.7-111			0.0600	20
3,3-Dichlorobenzidine	0.667	0.345	0.365	51.8	54.7	21.0-101			5.57	22
2,4-Dinitrotoluene	0.667	0.507	0.522	76.0	78.3	53.0-112			2.97	20
2,6-Dinitrotoluene	0.667	0.518	0.530	77.6	79.5	51.6-110			2.41	20
Fluoranthene	0.667	0.420	0.435	63.0	65.2	53.7-110			3.53	20
Fluorene	0.667	0.444	0.461	66.5	69.1	51.1-109			3.75	20
Hexachlorobenzene	0.667	0.454	0.481	68.1	72.2	43.2-104			5.83	20.1
Hexachloro-1,3-butadiene	0.667	0.356	0.443	53.4	66.5	41.5-112		J3	21.8	20
Hexachlorocyclopentadiene	0.667	0.278	0.305	41.7	45.7	13.5-123			9.16	20.7
Hexachloroethane	0.667	0.298	0.434	44.6	65.1	36.2-103		J3	37.3	22.7
Indeno(1,2,3-cd)pyrene	0.667	0.430	0.434	64.5	65.1	47.5-109			0.890	20
Isophorone	0.667	0.475	0.495	71.2	74.1	28.8-104			4.07	20
Naphthalene	0.667	0.361	0.419	54.0	62.8	43.4-103			15.0	20
Nitrobenzene	0.667	0.411	0.479	61.7	71.8	40.7-109			15.2	21
n-Nitrosodimethylamine	0.667	0.296	0.436	44.5	65.3	18.1-122		J3	38.1	23.5
n-Nitrosodiphenylamine	0.667	0.422	0.443	63.3	66.4	48.8-107			4.82	20
n-Nitrosodi-n-propylamine	0.667	0.433	0.471	65.0	70.5	43.3-109			8.20	20
Phenanthrene	0.667	0.408	0.425	61.1	63.7	51.6-107			4.16	20
Benzylbutyl phthalate	0.667	0.407	0.442	61.0	66.3	47.5-115			8.31	20
Bis(2-ethylhexyl)phthalate	0.667	0.425	0.444	63.7	66.6	48.1-116			4.44	20.5
Di-n-butyl phthalate	0.667	0.451	0.464	67.6	69.5	49.7-113			2.85	20
Diethyl phthalate	0.667	0.469	0.500	70.3	74.9	52.0-112			6.31	20
Dimethyl phthalate	0.667	0.473	0.487	70.9	72.9	51.4-108			2.82	20
Di-n-octyl phthalate	0.667	0.417	0.452	62.6	67.8	49.6-112			7.99	22
Pyrene	0.667	0.350	0.375	52.4	56.2	47.1-108			6.96	20
1,2,4-Trichlorobenzene	0.667	0.349	0.409	52.4	61.4	39.8-100			15.8	20
4-Chloro-3-methylphenol	0.667	0.470	0.472	70.4	70.8	51.1-113			0.480	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/04/15 12:05 • (LCSD) 11/04/15 12:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.667	0.351	0.444	52.6	66.6	40.8-103		J3	23.4	20
2,4-Dichlorophenol	0.667	0.439	0.458	65.8	68.7	46.2-109			4.36	20
2,4-Dimethylphenol	0.667	0.437	0.434	65.5	65.1	42.2-110			0.530	20
4,6-Dinitro-2-methylphenol	0.667	0.455	0.449	68.2	67.3	23.1-119			1.35	23.7
2,4-Dinitrophenol	0.667	0.288	0.248	43.1	37.2	10.0-105			14.7	36.5
2-Nitrophenol	0.667	0.443	0.503	66.4	75.3	44.2-113			12.6	20.9
4-Nitrophenol	0.667	0.473	0.484	71.0	72.6	34.8-109			2.34	20
Pentachlorophenol	0.667	0.418	0.409	62.7	61.3	16.2-102			2.27	22.9
Phenol	0.667	0.393	0.459	58.9	68.8	41.5-106			15.5	20
2,4,6-Trichlorophenol	0.667	0.460	0.464	69.0	69.5	44.4-108			0.780	20
(S) Nitrobenzene-d5				*59.9*	*69.5*	*21.9-129*				
(S) 2-Fluorobiphenyl				*65.3*	*69.0*	*34.9-129*				
(S) p-Terphenyl-d14				*56.0*	*61.8*	*21.5-128*				
(S) Phenol-d5				*60.1*	*69.5*	*26.3-121*				
(S) 2-Fluorophenol				*51.3*	*70.5*	*21.1-116*				
(S) 2,4,6-Tribromophenol				*74.5*	*75.5*	*21.6-142*				

L798051-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/04/15 15:15 • (MS) 11/04/15 15:39 • (MSD) 11/04/15 16:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	ND	0.443	0.460	66.4	69.0	1	32.2-134			3.78	27.3
Acenaphthylene	0.667	ND	0.467	0.491	70.1	73.6	1	38.7-129			4.85	25.9
Anthracene	0.667	ND	0.414	0.450	62.0	67.4	1	32.3-137			8.34	28.4
Benzidine	0.667	ND	0.000	0.000	0.000	0.000	1	0.000-49.9			0.000	40
Benzo(a)anthracene	0.667	0.00785	0.370	0.374	54.3	54.9	1	33.3-124			1.19	29
Benzo(b)fluoranthene	0.667	0.00751	0.355	0.349	52.0	51.2	1	23.3-133			1.58	30.3
Benzo(k)fluoranthene	0.667	0.00456	0.335	0.301	49.6	44.4	1	31.0-129			10.9	26.7
Benzo(g,h,i)perylene	0.667	0.00591	0.298	0.307	43.8	45.2	1	10.0-127			2.96	31.9
Benzo(a)pyrene	0.667	0.00663	0.343	0.357	50.4	52.6	1	28.2-128			4.11	28.4
Bis(2-chlorethoxy)methane	0.667	ND	0.431	0.444	64.6	66.6	1	35.0-132			3.04	26.1
Bis(2-chloroethyl)ether	0.667	ND	0.410	0.431	61.5	64.6	1	28.8-128			4.99	33.6
Bis(2-chloroisopropyl)ether	0.667	ND	0.462	0.477	69.2	71.5	1	31.8-118			3.27	31.7
4-Bromophenyl-phenylether	0.667	ND	0.421	0.463	63.0	69.4	1	39.0-130			9.55	26
2-Chloronaphthalene	0.667	ND	0.483	0.501	72.4	75.1	1	37.5-123			3.62	26.5

L798051-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/04/15 15:15 • (MS) 11/04/15 15:39 • (MSD) 11/04/15 16:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	ND	0.426	0.458	63.9	68.7	1	37.9-123			7.15	25.9
Chrysene	0.667	0.00612	0.357	0.367	52.6	54.0	1	36.3-129			2.72	28
Dibenz(a,h)anthracene	0.667	ND	0.303	0.306	45.4	45.9	1	10.5-128			1.23	29.5
3,3-Dichlorobenzidine	0.667	ND	0.0769	0.122	11.5	18.4	1	10.0-129		J3	45.7	40
2,4-Dinitrotoluene	0.667	ND	0.541	0.568	81.1	85.1	1	27.8-147			4.79	29.7
2,6-Dinitrotoluene	0.667	ND	0.552	0.581	82.8	87.0	1	36.5-137			5.05	29.7
Fluoranthene	0.667	0.0122	0.413	0.444	60.2	64.7	1	27.9-138			7.08	26.9
Fluorene	0.667	ND	0.446	0.476	66.8	71.4	1	34.0-133			6.60	27.1
Hexachlorobenzene	0.667	ND	0.427	0.467	64.0	70.0	1	34.4-116			8.99	25.4
Hexachloro-1,3-butadiene	0.667	ND	0.426	0.452	63.9	67.8	1	36.5-125			5.98	29.7
Hexachlorocyclopentadiene	0.667	ND	0.0873	0.0748	13.1	11.2	1	10.0-124			15.5	37.5
Hexachloroethane	0.667	ND	0.343	0.347	51.5	52.0	1	11.3-143			0.880	31.9
Indeno(1,2,3-cd)pyrene	0.667	0.00525	0.318	0.325	46.9	47.9	1	10.0-128			2.00	31.5
Isophorone	0.667	ND	0.504	0.522	75.6	78.3	1	25.7-116			3.46	27.7
Naphthalene	0.667	ND	0.434	0.447	65.0	67.0	1	36.4-121			3.03	27.2
Nitrobenzene	0.667	ND	0.486	0.504	72.8	75.6	1	30.9-134			3.83	27.8
n-Nitrosodimethylamine	0.667	ND	0.384	0.412	57.6	61.8	1	19.2-127			6.96	32
n-Nitrosodiphenylamine	0.667	ND	0.394	0.424	59.1	63.6	1	26.8-133			7.43	25.9
n-Nitrosodi-n-propylamine	0.667	ND	0.465	0.485	69.7	72.7	1	33.0-134			4.21	28.2
Phenanthrene	0.667	0.00678	0.416	0.438	61.3	64.7	1	30.8-137			5.22	26.5
Benzylbutyl phthalate	0.667	ND	0.360	0.370	54.0	55.5	1	33.4-128			2.81	28.5
Bis(2-ethylhexyl)phthalate	0.667	0.0116	0.359	0.360	52.1	52.2	1	21.8-141			0.250	35.2
Di-n-butyl phthalate	0.667	ND	0.398	0.430	59.7	64.5	1	32.2-133			7.68	25.9
Diethyl phthalate	0.667	ND	0.511	0.536	76.7	80.3	1	39.4-136			4.65	25.5
Dimethyl phthalate	0.667	ND	0.505	0.529	75.7	79.3	1	35.8-137			4.55	25.4
Di-n-octyl phthalate	0.667	ND	0.375	0.370	56.2	55.5	1	28.5-128			1.14	32.5
Pyrene	0.667	0.00866	0.332	0.344	48.5	50.3	1	24.1-130			3.60	29.9
1,2,4-Trichlorobenzene	0.667	ND	0.416	0.448	62.4	67.1	1	36.5-114			7.35	28.4
4-Chloro-3-methylphenol	0.667	ND	0.484	0.508	72.5	76.2	1	27.0-154			4.96	26.6
2-Chlorophenol	0.667	ND	0.434	0.455	65.1	68.1	1	33.2-121			4.53	29.3
2,4-Dichlorophenol	0.667	ND	0.470	0.492	70.5	73.8	1	34.8-134			4.49	27.3
2,4-Dimethylphenol	0.667	ND	0.400	0.420	59.9	63.0	1	12.3-149			5.06	32.3
4,6-Dinitro-2-methylphenol	0.667	ND	0.508	0.546	76.2	81.9	1	10.0-144			7.26	32.7
2,4-Dinitrophenol	0.667	ND	0.421	0.467	63.1	70.0	1	10.0-121			10.4	39.4
2-Nitrophenol	0.667	ND	0.520	0.552	77.9	82.8	1	29.5-144			6.07	29.9
4-Nitrophenol	0.667	ND	0.502	0.544	75.2	81.6	1	20.0-133			8.07	30.2

L798051-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/04/15 15:15 • (MS) 11/04/15 15:39 • (MSD) 11/04/15 16:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	0.667	ND	0.539	0.589	80.8	88.3	1	10.0-139			8.87	28.3
Phenol	0.667	ND	0.430	0.458	64.4	68.7	1	25.1-130			6.48	29.6
2,4,6-Trichlorophenol	0.667	ND	0.501	0.513	75.1	76.9	1	33.8-133			2.35	28.1
(S) Nitrobenzene-d5					*72.5*	*73.9*		*21.9-129*				
(S) 2-Fluorobiphenyl					*71.5*	*73.7*		*34.9-129*				
(S) p-Terphenyl-d14					*56.3*	*59.9*		*21.5-128*				
(S) Phenol-d5					*65.3*	*69.3*		*26.3-121*				
(S) 2-Fluorophenol					*65.9*	*70.2*		*21.1-116*				
(S) 2,4,6-Tribromophenol					*81.5*	*84.0*		*21.6-142*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

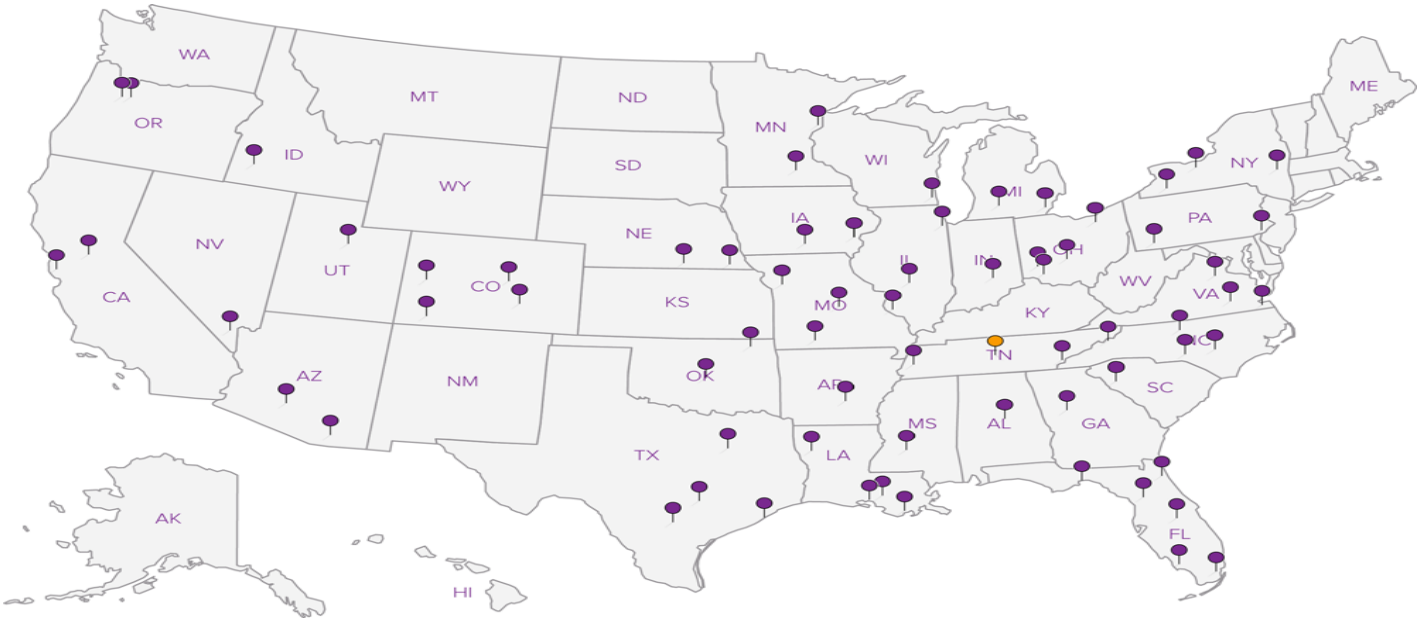
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Withers & Ravenel Eng.
111 MacKenan Drive
Cary, NC 27511

Alternate billing information:
WITHRAVS - Regular
WITHRAVS - 6200FULL
WITHRAVS - STATELEAD

Report to: mbrown @withersravenel.com
Email to: Mark Brown

Chain of Custody
Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
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Phone (800) 767-5859
FAX (615) 758-5859

D240

CoCode WITHRAVS (lab use only)
Template/Prelogin
Shipped Via:

Project Description: Franklinton Dump
City/State Collected: Franklinton /NC
Phone: (919) 469-3340
FAX:
Client Project #: 0210001.30
ESC Key: see above
Collected by: MIKE FEKETE
Site/Facility ID#:
P.O.#:
Collected by (signature): Mike Fekete
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%
____ Three Day.....25%

Date Results Needed:
Email? __No__Yes
FAX? __No__Yes

Analysis/Container/Preservative: 8260 B, 8270 C, 1,4 Dioxane 8260 SIM, 14 Metals 6020, Mercury 7471, Ammonia Sm 4500, Nitrates, Sulfates

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
SB-22 6"	Grab	SS	6"	10/30/15	1125	10		L798115-01/07
SB-23 6"	↓	↓	6"	↓	1135	10		03/04
SB-23 18"	↓	↓	18"	↓	1145	10		05/06
SB-23 Dup	↓	↓	↓	↓	1200	10		07/08
SB-28 6"	↓	↓	6"	↓	1020	10		09/10
SB-28 18"	↓	↓	18"	↓	1040	10		11/12

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks: NC Pre Reg LF

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☒ SWA	Condition: (lab use only)
Mike Fekete	10/30/15	17:05	[signature]		0010 COCSI
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2 / Bottles Received: LOQ+TB	
Relinquished by: (Signature) [signature]	Date: 10/30/15	Time: 18:35	Received for lab by: (Signature) [signature]	Date: 10/31/15 / Time: 1030	pH Checked: / NCF:

ESC Lab Sciences
Non-Conformance Form

Login #: L798115	Client: WITHRAVS	Date: 10/31/15	Evaluated by: Jeremy

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container	x	Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: No Analysis Marked

Client informed by:		Call		Email	x	Voice Mail		Date: 11/2/15	Time: 0835
TSR Initials: jeh	Client Contact: Mark Brown								

Login Instructions: **Analyze all samples for all analyses on the COC.**

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Laboratory Report – QA/QC Data Review

Project Name:	Franklinton Dump NONCD0000310 – Task Order 310DP-7
Project Number:	02100001.30
Laboratory Name:	ESC Laboratories
Laboratory Report Number and Date(s):	**L802294** dated 12/2/15
Laboratory Sample IDs:	L802294-01, L802294-01, L802294-02, L802294-03, L802294-04, L802294-05, L802294-06, L802294-07, L802294-08, L802294-09, L802294-10, L802294-11, L802294-12, L802294-13, L802294-15, L802294-16, and L802294-17
Media Subjected to Analyses (preceded by sampling date):	(11/19/15) 7 Groundwater Samples, 1 Duplicate (11/19/15) 1 Trip Blank

QA/QC Checklist:

1. Samples Analyzed Outside of Holding Time? (y/n) – If yes identify sample.	No.
2. Samples Preserved Per Method Requirements? (y/n) – If no identify sample.	Yes.
3. Samples Received at or Below 4º C? (y/n)	Yes.
4. Did Blanks Contain Analytes Identified in Sample Media (B-Flags)? (y/n) – If yes identify sample.	No.
5. Were matrix – spike duplicates included in analyses? (y/n)	Yes.
6. Did the laboratory report any analyses as "rejected"? (y/n) - If yes identify sample.	No.
7. Did the laboratory provide explanation of any technical issues regarding the analyses of a samples(s) on the laboratory report? (y/n) – If yes summarize.	Yes, the laboratory reported the following issues: **Laboratory Control Sample-Laboratory Control Sample Duplicate** for chloromethane (J4) The associated batch QC was outside the established quality control range for accuracy. **L802294-01 Original Sample-Matrix Spike-Matrix Spike Duplicate** for 2-chloroethyl vinyl ether (J6) The sample matrix interfered with the ability to make any accurate determination; spike value is low. **Laboratory Control Sample-Laboratory Control Sample Duplicate** for 2-chloroethyl vinyl ether (J3) The associated batch QC was outside the established quality control range for precision.

	(J4) The associated batch QC was outside the established quality control range for accuracy. **Laboratory Control Sample-Laboratory Control Sample Duplicate** for n-nitrosodimethylamine, (J3) The associated batch QC was outside the established quality control range for precision. **Laboratory Control Sample-Laboratory Control Sample Duplicate** for n-nitrosodi-n-propylamine (J3) The associated batch QC was outside the established quality control range for precision. (J4) The associated batch QC was outside the established quality control range for accuracy. **Laboratory Control Sample-Laboratory Control Sample Duplicate** for 2,4-dinitrophenol (J3) The associated batch QC was outside the established quality control range for precision.
8. Comments:	

Reviewer:	Chris Fay/SMB
Date of Review:	12/18/15
Data Suitable For Intended Use:	Yes

ANALYTICAL REPORT

December 02, 2015

Withers & Ravenel Eng. - Standard

Sample Delivery Group:	L802294
Samples Received:	11/20/2015
Project Number:	02100001.30
Description:	Franklinton Dump
Report To:	Chris Fay 115 MacKenan Drive Cary, NC 27511

Entire Report Reviewed By:

Jimmy Hunt
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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MW-1 L802294-01 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 11:20 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG830593	1	11/20/15 17:35	11/21/15 16:24	TRB
Metals (ICPMS) by Method 6020	WG831407	1	11/24/15 17:01	11/27/15 12:42	JD
Metals (ICPMS) by Method 6020	WG831407	50	11/24/15 17:01	11/27/15 13:12	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG831155	1	11/24/15 20:40	11/25/15 07:21	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG830835	1	11/27/15 07:09	11/27/15 07:09	BMB
Wet Chemistry by Method 350.1	WG831937	1	11/27/15 17:07	11/27/15 17:07	JAL
Wet Chemistry by Method 9056MOD	WG830245	1	11/21/15 02:31	11/21/15 02:31	DJD

MW-1 L802294-02 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 11:20 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG832075	1	11/29/15 15:53	11/29/15 15:53	BMB

MW-3 L802294-03 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 13:37 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG830593	1	11/20/15 17:35	11/21/15 16:27	TRB
Metals (ICPMS) by Method 6020	WG831407	1	11/24/15 17:01	11/27/15 12:44	JD
Metals (ICPMS) by Method 6020	WG831407	2	11/24/15 17:01	11/27/15 13:17	JDG
Metals (ICPMS) by Method 6020	WG831407	50	11/24/15 17:01	11/27/15 13:15	JD
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG831155	1	11/24/15 20:40	11/25/15 07:45	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG830835	1	11/27/15 07:33	11/27/15 07:33	BMB
Wet Chemistry by Method 350.1	WG831937	1	11/27/15 17:09	11/27/15 17:09	JAL
Wet Chemistry by Method 9056MOD	WG830245	1	11/21/15 03:17	11/21/15 03:17	DJD

MW-3 L802294-04 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 13:37 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG832075	1	11/29/15 16:13	11/29/15 16:13	BMB

MW-5 L802294-05 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 13:55 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG830593	1	11/20/15 17:35	11/21/15 16:29	TRB
Metals (ICPMS) by Method 6020	WG831407	1	11/24/15 17:01	11/27/15 12:47	JDG
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG831155	1	11/24/15 20:40	11/25/15 08:08	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG830835	1	11/27/15 07:58	11/27/15 07:58	BMB
Wet Chemistry by Method 350.1	WG831937	1	11/27/15 17:14	11/27/15 17:14	JAL
Wet Chemistry by Method 9056MOD	WG830551	1	11/20/15 20:56	11/20/15 20:56	DJD

MW-5 L802294-06 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 13:55 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG832075	1	11/29/15 16:32	11/29/15 16:32	BMB

MW-6 L802294-07 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 13:05 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG830593	1	11/20/15 17:35	11/21/15 16:37	TRB
Metals (ICPMS) by Method 6020	WG831407	1	11/24/15 17:01	11/27/15 13:00	JDG
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG831155	1	11/24/15 20:40	11/25/15 08:32	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG830835	1	11/27/15 08:22	11/27/15 08:22	BMB
Wet Chemistry by Method 350.1	WG831937	1	11/27/15 17:17	11/27/15 17:17	JAL
Wet Chemistry by Method 9056MOD	WG830551	1	11/20/15 21:11	11/20/15 21:11	DJD
Wet Chemistry by Method 9056MOD	WG831412	5	11/25/15 13:10	11/25/15 13:10	DJD

MW-6 L802294-08 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 13:05 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG831359	1	11/25/15 09:42	11/25/15 09:42	ACG

MW-7 L802294-09 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 12:55 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG830593	1	11/20/15 17:35	11/21/15 16:39	TRB
Metals (ICPMS) by Method 6020	WG831407	100	11/24/15 17:01	11/27/15 13:29	JDG
Metals (ICPMS) by Method 6020	WG831407	5	11/24/15 17:01	11/27/15 13:22	JDG
Metals (ICPMS) by Method 6020	WG831407	50	11/24/15 17:01	11/27/15 13:19	JDG
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG831155	1	11/24/15 20:40	11/25/15 08:55	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG830835	1	11/27/15 08:46	11/27/15 08:46	BMB
Wet Chemistry by Method 350.1	WG831937	1	11/27/15 17:19	11/27/15 17:19	JAL
Wet Chemistry by Method 9056MOD	WG830551	1	11/20/15 21:25	11/20/15 21:25	DJD
Wet Chemistry by Method 9056MOD	WG831412	5	11/25/15 15:13	11/25/15 15:13	DJD

MW-7 L802294-10 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 12:55 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG832075	1	11/29/15 16:52	11/29/15 16:52	BMB

MW-8 L802294-11 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 11:45 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG830593	1	11/20/15 17:35	11/21/15 16:42	TRB
Metals (ICPMS) by Method 6020	WG831407	1	11/24/15 17:01	11/27/15 13:05	JDG
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG831155	1	11/24/15 20:40	11/25/15 09:18	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG832478	1	12/01/15 11:01	12/01/15 11:01	BMB
Wet Chemistry by Method 350.1	WG831937	1	11/27/15 17:29	11/27/15 17:29	JAL
Wet Chemistry by Method 9056MOD	WG830551	1	11/20/15 21:40	11/20/15 21:40	DJD

MW-8 L802294-12 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 11:45 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG832075	1	11/29/15 17:11	11/29/15 17:11	BMB

DUP-GW L802294-13 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 14:00 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG830593	1	11/20/15 17:35	11/21/15 16:45	TRB
Metals (ICPMS) by Method 6020	WG831407	1	11/24/15 17:01	11/27/15 13:08	JDG
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG831155	1	11/24/15 20:40	11/25/15 09:42	JF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG830955	1	11/24/15 09:24	11/24/15 09:24	BMB
Wet Chemistry by Method 350.1	WG831937	1	11/27/15 17:37	11/27/15 17:37	JAL
Wet Chemistry by Method 9056MOD	WG830551	1	11/20/15 21:54	11/20/15 21:54	DJD

DUP-GW L802294-14 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 14:00 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG832075	1	11/29/15 17:31	11/29/15 17:31	BMB

TRIP BLANK L802294-15 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 00:00 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG830955	1	11/24/15 08:31	11/24/15 08:31	BMB

MW-9 L802294-16 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 11:05 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG831326	1	11/24/15 16:55	11/25/15 07:48	BRJ
Metals (ICPMS) by Method 6020	WG831407	1	11/24/15 17:01	11/27/15 13:10	JDG
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG831669	1	11/24/15 12:00	11/25/15 15:55	ADF
Volatile Organic Compounds (GC/MS) by Method 8260B	WG831700	1	11/25/15 19:33	11/25/15 19:33	JAH
Wet Chemistry by Method 350.1	WG831937	1	11/27/15 17:39	11/27/15 17:39	JAL
Wet Chemistry by Method 9056MOD	WG831343	1	11/24/15 16:23	11/24/15 16:23	NJM

MW-9 L802294-17 GW

Collected by: Daniel Terry | Collected date/time: 11/19/15 11:05 | Received date/time: 11/20/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG832075	1	11/29/15 17:51	11/29/15 17:51	BMB

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jimmy Hunt
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L802294-16	MW-9	9056MOD

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	306		250	1	11/27/2015 17:07	WG831937

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	ND		100	1	11/21/2015 02:31	WG830245
Sulfate	ND		5000	1	11/21/2015 02:31	WG830245

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/21/2015 16:24	WG830593

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/27/2015 12:42	WG831407
Arsenic	7.39		2.00	1	11/27/2015 12:42	WG831407
Beryllium	2.81		2.00	1	11/27/2015 12:42	WG831407
Cadmium	ND		1.00	1	11/27/2015 12:42	WG831407
Chromium	66.0		2.00	1	11/27/2015 12:42	WG831407
Copper	38.0		5.00	1	11/27/2015 12:42	WG831407
Iron	59200		5000	50	11/27/2015 13:12	WG831407
Lead	48.4		2.00	1	11/27/2015 12:42	WG831407
Manganese	2060		250	50	11/27/2015 13:12	WG831407
Nickel	37.3		2.00	1	11/27/2015 12:42	WG831407
Selenium	ND		2.00	1	11/27/2015 12:42	WG831407
Silver	2.48		2.00	1	11/27/2015 12:42	WG831407
Thallium	ND		2.00	1	11/27/2015 12:42	WG831407
Zinc	90.1		25.0	1	11/27/2015 12:42	WG831407

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/27/2015 07:09	WG830835
Acrolein	ND		50.0	1	11/27/2015 07:09	WG830835
Acrylonitrile	ND		10.0	1	11/27/2015 07:09	WG830835
Benzene	ND		1.00	1	11/27/2015 07:09	WG830835
Bromobenzene	ND		1.00	1	11/27/2015 07:09	WG830835
Bromodichloromethane	ND		1.00	1	11/27/2015 07:09	WG830835
Bromoform	ND		1.00	1	11/27/2015 07:09	WG830835
Bromomethane	ND		5.00	1	11/27/2015 07:09	WG830835
n-Butylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
sec-Butylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
tert-Butylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
Carbon tetrachloride	ND		1.00	1	11/27/2015 07:09	WG830835
Chlorobenzene	ND		1.00	1	11/27/2015 07:09	WG830835
Chlorodibromomethane	ND		1.00	1	11/27/2015 07:09	WG830835
Chloroethane	ND		5.00	1	11/27/2015 07:09	WG830835
2-Chloroethyl vinyl ether	ND	J6	50.0	1	11/27/2015 07:09	WG830835
Chloroform	ND		5.00	1	11/27/2015 07:09	WG830835
Chloromethane	ND	J4	2.50	1	11/27/2015 07:09	WG830835
2-Chlorotoluene	ND		1.00	1	11/27/2015 07:09	WG830835
4-Chlorotoluene	ND		1.00	1	11/27/2015 07:09	WG830835

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/27/2015 07:09	WG830835
1,2-Dibromoethane	ND		1.00	1	11/27/2015 07:09	WG830835
Dibromomethane	ND		1.00	1	11/27/2015 07:09	WG830835
1,2-Dichlorobenzene	ND		1.00	1	11/27/2015 07:09	WG830835
1,3-Dichlorobenzene	ND		1.00	1	11/27/2015 07:09	WG830835
1,4-Dichlorobenzene	ND		1.00	1	11/27/2015 07:09	WG830835
Dichlorodifluoromethane	ND		5.00	1	11/27/2015 07:09	WG830835
1,1-Dichloroethane	ND		1.00	1	11/27/2015 07:09	WG830835
1,2-Dichloroethane	ND		1.00	1	11/27/2015 07:09	WG830835
1,1-Dichloroethene	ND		1.00	1	11/27/2015 07:09	WG830835
cis-1,2-Dichloroethene	ND		1.00	1	11/27/2015 07:09	WG830835
trans-1,2-Dichloroethene	ND		1.00	1	11/27/2015 07:09	WG830835
1,2-Dichloropropane	ND		1.00	1	11/27/2015 07:09	WG830835
1,1-Dichloropropene	ND		1.00	1	11/27/2015 07:09	WG830835
1,3-Dichloropropane	ND		1.00	1	11/27/2015 07:09	WG830835
cis-1,3-Dichloropropene	ND		1.00	1	11/27/2015 07:09	WG830835
trans-1,3-Dichloropropene	ND		1.00	1	11/27/2015 07:09	WG830835
2,2-Dichloropropane	ND		1.00	1	11/27/2015 07:09	WG830835
Di-isopropyl ether	ND		1.00	1	11/27/2015 07:09	WG830835
Ethylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
Hexachloro-1,3-butadiene	ND		1.00	1	11/27/2015 07:09	WG830835
Isopropylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
p-Isopropyltoluene	ND		1.00	1	11/27/2015 07:09	WG830835
2-Butanone (MEK)	ND		10.0	1	11/27/2015 07:09	WG830835
Methylene Chloride	ND		5.00	1	11/27/2015 07:09	WG830835
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/27/2015 07:09	WG830835
Methyl tert-butyl ether	ND		1.00	1	11/27/2015 07:09	WG830835
Naphthalene	ND		5.00	1	11/27/2015 07:09	WG830835
n-Propylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
Styrene	ND		1.00	1	11/27/2015 07:09	WG830835
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/27/2015 07:09	WG830835
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/27/2015 07:09	WG830835
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/27/2015 07:09	WG830835
Tetrachloroethene	ND		1.00	1	11/27/2015 07:09	WG830835
Toluene	ND		5.00	1	11/27/2015 07:09	WG830835
1,2,3-Trichlorobenzene	ND		1.00	1	11/27/2015 07:09	WG830835
1,2,4-Trichlorobenzene	ND		1.00	1	11/27/2015 07:09	WG830835
1,1,1-Trichloroethane	ND		1.00	1	11/27/2015 07:09	WG830835
1,1,2-Trichloroethane	ND		1.00	1	11/27/2015 07:09	WG830835
Trichloroethene	ND		1.00	1	11/27/2015 07:09	WG830835
Trichlorofluoromethane	ND		5.00	1	11/27/2015 07:09	WG830835
1,2,3-Trichloropropane	ND		2.50	1	11/27/2015 07:09	WG830835
1,2,4-Trimethylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
1,2,3-Trimethylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
1,3,5-Trimethylbenzene	ND		1.00	1	11/27/2015 07:09	WG830835
Vinyl chloride	ND		1.00	1	11/27/2015 07:09	WG830835
Xylenes, Total	ND		3.00	1	11/27/2015 07:09	WG830835
(S) Toluene-d8	*99.2*		*90.0-115*		*11/27/2015 07:09*	WG830835
(S) Dibromofluoromethane	*97.5*		*79.0-121*		*11/27/2015 07:09*	WG830835
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*11/27/2015 07:09*	WG830835

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/25/2015 07:21	WG831155
Acenaphthylene	ND		1.00	1	11/25/2015 07:21	WG831155
Anthracene	ND		1.00	1	11/25/2015 07:21	WG831155
Benzidine	ND		10.0	1	11/25/2015 07:21	WG831155
Benzo(a)anthracene	ND		1.00	1	11/25/2015 07:21	WG831155
Benzo(b)fluoranthene	ND		1.00	1	11/25/2015 07:21	WG831155
Benzo(k)fluoranthene	ND		1.00	1	11/25/2015 07:21	WG831155
Benzo(g,h,i)perylene	ND		1.00	1	11/25/2015 07:21	WG831155
Benzo(a)pyrene	ND		1.00	1	11/25/2015 07:21	WG831155
Bis(2-chlorethoxy)methane	ND		10.0	1	11/25/2015 07:21	WG831155
Bis(2-chloroethyl)ether	ND		10.0	1	11/25/2015 07:21	WG831155
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/25/2015 07:21	WG831155
4-Bromophenyl-phenylether	ND		10.0	1	11/25/2015 07:21	WG831155
2-Chloronaphthalene	ND		1.00	1	11/25/2015 07:21	WG831155
4-Chlorophenyl-phenylether	ND		10.0	1	11/25/2015 07:21	WG831155
Chrysene	ND		1.00	1	11/25/2015 07:21	WG831155
Dibenz(a,h)anthracene	ND		1.00	1	11/25/2015 07:21	WG831155
3,3-Dichlorobenzidine	ND		10.0	1	11/25/2015 07:21	WG831155
2,4-Dinitrotoluene	ND		10.0	1	11/25/2015 07:21	WG831155
2,6-Dinitrotoluene	ND		10.0	1	11/25/2015 07:21	WG831155
Fluoranthene	ND		1.00	1	11/25/2015 07:21	WG831155
Fluorene	ND		1.00	1	11/25/2015 07:21	WG831155
Hexachlorobenzene	ND		1.00	1	11/25/2015 07:21	WG831155
Hexachloro-1,3-butadiene	ND		10.0	1	11/25/2015 07:21	WG831155
Hexachlorocyclopentadiene	ND		10.0	1	11/25/2015 07:21	WG831155
Hexachloroethane	ND		10.0	1	11/25/2015 07:21	WG831155
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/25/2015 07:21	WG831155
Isophorone	ND		10.0	1	11/25/2015 07:21	WG831155
Naphthalene	ND		1.00	1	11/25/2015 07:21	WG831155
Nitrobenzene	ND		10.0	1	11/25/2015 07:21	WG831155
n-Nitrosodimethylamine	ND	J3	10.0	1	11/25/2015 07:21	WG831155
n-Nitrosodiphenylamine	ND		10.0	1	11/25/2015 07:21	WG831155
n-Nitrosodi-n-propylamine	ND	J3 J4	10.0	1	11/25/2015 07:21	WG831155
Phenanthrene	ND		1.00	1	11/25/2015 07:21	WG831155
Benzylbutyl phthalate	ND		3.00	1	11/25/2015 07:21	WG831155
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/25/2015 07:21	WG831155
Di-n-butyl phthalate	ND		3.00	1	11/25/2015 07:21	WG831155
Diethyl phthalate	ND		3.00	1	11/25/2015 07:21	WG831155
Dimethyl phthalate	ND		3.00	1	11/25/2015 07:21	WG831155
Di-n-octyl phthalate	ND		3.00	1	11/25/2015 07:21	WG831155
Pyrene	ND		1.00	1	11/25/2015 07:21	WG831155
1,2,4-Trichlorobenzene	ND		10.0	1	11/25/2015 07:21	WG831155
4-Chloro-3-methylphenol	ND		10.0	1	11/25/2015 07:21	WG831155
2-Chlorophenol	ND		10.0	1	11/25/2015 07:21	WG831155
2,4-Dichlorophenol	ND		10.0	1	11/25/2015 07:21	WG831155
2,4-Dimethylphenol	ND		10.0	1	11/25/2015 07:21	WG831155
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/25/2015 07:21	WG831155
2,4-Dinitrophenol	ND		10.0	1	11/25/2015 07:21	WG831155
2-Nitrophenol	ND		10.0	1	11/25/2015 07:21	WG831155
4-Nitrophenol	ND		10.0	1	11/25/2015 07:21	WG831155
Pentachlorophenol	ND		10.0	1	11/25/2015 07:21	WG831155
Phenol	ND		10.0	1	11/25/2015 07:21	WG831155
2,4,6-Trichlorophenol	ND		10.0	1	11/25/2015 07:21	WG831155
(S) 2-Fluorophenol	*37.8*		*10.0-77.9*		*11/25/2015 07:21*	WG831155
(S) Phenol-d5	*26.5*		*5.00-70.1*		*11/25/2015 07:21*	WG831155
(S) Nitrobenzene-d5	*48.7*		*21.8-123*		*11/25/2015 07:21*	WG831155

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*55.6*		*29.5-131*		*11/25/2015 07:21*	WG831155
(S) 2,4,6-Tribromophenol	*51.0*		*11.2-130*		*11/25/2015 07:21*	WG831155
(S) p-Terphenyl-d14	*64.7*		*29.3-137*		*11/25/2015 07:21*	WG831155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/29/2015 15:53	WG832075
(S) Toluene-d8	*105*		*70.0-130*		*11/29/2015 15:53*	WG832075

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		250	1	11/27/2015 17:09	WG831937

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	299		100	1	11/21/2015 03:17	WG830245
Sulfate	ND		5000	1	11/21/2015 03:17	WG830245

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/21/2015 16:27	WG830593

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/27/2015 12:44	WG831407
Arsenic	8.10		2.00	1	11/27/2015 12:44	WG831407
Beryllium	3.11		2.00	1	11/27/2015 12:44	WG831407
Cadmium	4.94		1.00	1	11/27/2015 12:44	WG831407
Chromium	124		2.00	1	11/27/2015 12:44	WG831407
Copper	208		5.00	1	11/27/2015 12:44	WG831407
Iron	89900		5000	50	11/27/2015 13:15	WG831407
Lead	42.1		2.00	1	11/27/2015 12:44	WG831407
Manganese	1570		250	50	11/27/2015 13:15	WG831407
Nickel	42.9		2.00	1	11/27/2015 12:44	WG831407
Selenium	5.01		2.00	1	11/27/2015 12:44	WG831407
Silver	ND		2.00	1	11/27/2015 12:44	WG831407
Thallium	ND		2.00	1	11/27/2015 12:44	WG831407
Zinc	328		50.0	2	11/27/2015 13:17	WG831407

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/27/2015 07:33	WG830835
Acrolein	ND		50.0	1	11/27/2015 07:33	WG830835
Acrylonitrile	ND		10.0	1	11/27/2015 07:33	WG830835
Benzene	ND		1.00	1	11/27/2015 07:33	WG830835
Bromobenzene	ND		1.00	1	11/27/2015 07:33	WG830835
Bromodichloromethane	ND		1.00	1	11/27/2015 07:33	WG830835
Bromoform	ND		1.00	1	11/27/2015 07:33	WG830835
Bromomethane	ND		5.00	1	11/27/2015 07:33	WG830835
n-Butylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
sec-Butylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
tert-Butylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
Carbon tetrachloride	ND		1.00	1	11/27/2015 07:33	WG830835
Chlorobenzene	ND		1.00	1	11/27/2015 07:33	WG830835
Chlorodibromomethane	ND		1.00	1	11/27/2015 07:33	WG830835
Chloroethane	ND		5.00	1	11/27/2015 07:33	WG830835
2-Chloroethyl vinyl ether	ND		50.0	1	11/27/2015 07:33	WG830835
Chloroform	ND		5.00	1	11/27/2015 07:33	WG830835
Chloromethane	ND	J4	2.50	1	11/27/2015 07:33	WG830835
2-Chlorotoluene	ND		1.00	1	11/27/2015 07:33	WG830835
4-Chlorotoluene	ND		1.00	1	11/27/2015 07:33	WG830835

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/27/2015 07:33	WG830835
1,2-Dibromoethane	ND		1.00	1	11/27/2015 07:33	WG830835
Dibromomethane	ND		1.00	1	11/27/2015 07:33	WG830835
1,2-Dichlorobenzene	ND		1.00	1	11/27/2015 07:33	WG830835
1,3-Dichlorobenzene	ND		1.00	1	11/27/2015 07:33	WG830835
1,4-Dichlorobenzene	ND		1.00	1	11/27/2015 07:33	WG830835
Dichlorodifluoromethane	ND		5.00	1	11/27/2015 07:33	WG830835
1,1-Dichloroethane	ND		1.00	1	11/27/2015 07:33	WG830835
1,2-Dichloroethane	ND		1.00	1	11/27/2015 07:33	WG830835
1,1-Dichloroethene	ND		1.00	1	11/27/2015 07:33	WG830835
cis-1,2-Dichloroethene	ND		1.00	1	11/27/2015 07:33	WG830835
trans-1,2-Dichloroethene	ND		1.00	1	11/27/2015 07:33	WG830835
1,2-Dichloropropane	ND		1.00	1	11/27/2015 07:33	WG830835
1,1-Dichloropropene	ND		1.00	1	11/27/2015 07:33	WG830835
1,3-Dichloropropane	ND		1.00	1	11/27/2015 07:33	WG830835
cis-1,3-Dichloropropene	ND		1.00	1	11/27/2015 07:33	WG830835
trans-1,3-Dichloropropene	ND		1.00	1	11/27/2015 07:33	WG830835
2,2-Dichloropropane	ND		1.00	1	11/27/2015 07:33	WG830835
Di-isopropyl ether	ND		1.00	1	11/27/2015 07:33	WG830835
Ethylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
Hexachloro-1,3-butadiene	ND		1.00	1	11/27/2015 07:33	WG830835
Isopropylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
p-Isopropyltoluene	7.77		1.00	1	11/27/2015 07:33	WG830835
2-Butanone (MEK)	ND		10.0	1	11/27/2015 07:33	WG830835
Methylene Chloride	ND		5.00	1	11/27/2015 07:33	WG830835
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/27/2015 07:33	WG830835
Methyl tert-butyl ether	ND		1.00	1	11/27/2015 07:33	WG830835
Naphthalene	ND		5.00	1	11/27/2015 07:33	WG830835
n-Propylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
Styrene	ND		1.00	1	11/27/2015 07:33	WG830835
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/27/2015 07:33	WG830835
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/27/2015 07:33	WG830835
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/27/2015 07:33	WG830835
Tetrachloroethene	ND		1.00	1	11/27/2015 07:33	WG830835
Toluene	ND		5.00	1	11/27/2015 07:33	WG830835
1,2,3-Trichlorobenzene	ND		1.00	1	11/27/2015 07:33	WG830835
1,2,4-Trichlorobenzene	ND		1.00	1	11/27/2015 07:33	WG830835
1,1,1-Trichloroethane	ND		1.00	1	11/27/2015 07:33	WG830835
1,1,2-Trichloroethane	ND		1.00	1	11/27/2015 07:33	WG830835
Trichloroethene	ND		1.00	1	11/27/2015 07:33	WG830835
Trichlorofluoromethane	ND		5.00	1	11/27/2015 07:33	WG830835
1,2,3-Trichloropropane	ND		2.50	1	11/27/2015 07:33	WG830835
1,2,4-Trimethylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
1,2,3-Trimethylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
1,3,5-Trimethylbenzene	ND		1.00	1	11/27/2015 07:33	WG830835
Vinyl chloride	ND		1.00	1	11/27/2015 07:33	WG830835
Xylenes, Total	ND		3.00	1	11/27/2015 07:33	WG830835
(S) Toluene-d8	*105*		*90.0-115*		*11/27/2015 07:33*	WG830835
(S) Dibromofluoromethane	*95.6*		*79.0-121*		*11/27/2015 07:33*	WG830835
(S) 4-Bromofluorobenzene	*99.6*		*80.1-120*		*11/27/2015 07:33*	WG830835

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/25/2015 07:45	WG831155
Acenaphthylene	ND		1.00	1	11/25/2015 07:45	WG831155
Anthracene	ND		1.00	1	11/25/2015 07:45	WG831155
Benzidine	ND		10.0	1	11/25/2015 07:45	WG831155
Benzo(a)anthracene	ND		1.00	1	11/25/2015 07:45	WG831155
Benzo(b)fluoranthene	ND		1.00	1	11/25/2015 07:45	WG831155
Benzo(k)fluoranthene	ND		1.00	1	11/25/2015 07:45	WG831155
Benzo(g,h,i)perylene	ND		1.00	1	11/25/2015 07:45	WG831155
Benzo(a)pyrene	ND		1.00	1	11/25/2015 07:45	WG831155
Bis(2-chlorethoxy)methane	ND		10.0	1	11/25/2015 07:45	WG831155
Bis(2-chloroethyl)ether	ND		10.0	1	11/25/2015 07:45	WG831155
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/25/2015 07:45	WG831155
4-Bromophenyl-phenylether	ND		10.0	1	11/25/2015 07:45	WG831155
2-Chloronaphthalene	ND		1.00	1	11/25/2015 07:45	WG831155
4-Chlorophenyl-phenylether	ND		10.0	1	11/25/2015 07:45	WG831155
Chrysene	ND		1.00	1	11/25/2015 07:45	WG831155
Dibenz(a,h)anthracene	ND		1.00	1	11/25/2015 07:45	WG831155
3,3-Dichlorobenzidine	ND		10.0	1	11/25/2015 07:45	WG831155
2,4-Dinitrotoluene	ND		10.0	1	11/25/2015 07:45	WG831155
2,6-Dinitrotoluene	ND		10.0	1	11/25/2015 07:45	WG831155
Fluoranthene	ND		1.00	1	11/25/2015 07:45	WG831155
Fluorene	ND		1.00	1	11/25/2015 07:45	WG831155
Hexachlorobenzene	ND		1.00	1	11/25/2015 07:45	WG831155
Hexachloro-1,3-butadiene	ND		10.0	1	11/25/2015 07:45	WG831155
Hexachlorocyclopentadiene	ND		10.0	1	11/25/2015 07:45	WG831155
Hexachloroethane	ND		10.0	1	11/25/2015 07:45	WG831155
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/25/2015 07:45	WG831155
Isophorone	ND		10.0	1	11/25/2015 07:45	WG831155
Naphthalene	ND		1.00	1	11/25/2015 07:45	WG831155
Nitrobenzene	ND		10.0	1	11/25/2015 07:45	WG831155
n-Nitrosodimethylamine	ND	J3	10.0	1	11/25/2015 07:45	WG831155
n-Nitrosodiphenylamine	ND		10.0	1	11/25/2015 07:45	WG831155
n-Nitrosodi-n-propylamine	ND	J3 J4	10.0	1	11/25/2015 07:45	WG831155
Phenanthrene	ND		1.00	1	11/25/2015 07:45	WG831155
Benzylbutyl phthalate	ND		3.00	1	11/25/2015 07:45	WG831155
Bis(2-ethylhexyl)phthalate	11.5		3.00	1	11/25/2015 07:45	WG831155
Di-n-butyl phthalate	ND		3.00	1	11/25/2015 07:45	WG831155
Diethyl phthalate	ND		3.00	1	11/25/2015 07:45	WG831155
Dimethyl phthalate	ND		3.00	1	11/25/2015 07:45	WG831155
Di-n-octyl phthalate	ND		3.00	1	11/25/2015 07:45	WG831155
Pyrene	ND		1.00	1	11/25/2015 07:45	WG831155
1,2,4-Trichlorobenzene	ND		10.0	1	11/25/2015 07:45	WG831155
4-Chloro-3-methylphenol	ND		10.0	1	11/25/2015 07:45	WG831155
2-Chlorophenol	ND		10.0	1	11/25/2015 07:45	WG831155
2,4-Dichlorophenol	ND		10.0	1	11/25/2015 07:45	WG831155
2,4-Dimethylphenol	ND		10.0	1	11/25/2015 07:45	WG831155
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/25/2015 07:45	WG831155
2,4-Dinitrophenol	ND		10.0	1	11/25/2015 07:45	WG831155
2-Nitrophenol	ND		10.0	1	11/25/2015 07:45	WG831155
4-Nitrophenol	ND		10.0	1	11/25/2015 07:45	WG831155
Pentachlorophenol	ND		10.0	1	11/25/2015 07:45	WG831155
Phenol	ND		10.0	1	11/25/2015 07:45	WG831155
2,4,6-Trichlorophenol	ND		10.0	1	11/25/2015 07:45	WG831155
(S) 2-Fluorophenol	*50.0*		*10.0-77.9*		*11/25/2015 07:45*	WG831155
(S) Phenol-d5	*33.2*		*5.00-70.1*		*11/25/2015 07:45*	WG831155
(S) Nitrobenzene-d5	*45.7*		*21.8-123*		*11/25/2015 07:45*	WG831155

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*68.3*		*29.5-131*		*11/25/2015 07:45*	WG831155
(S) 2,4,6-Tribromophenol	*72.7*		*11.2-130*		*11/25/2015 07:45*	WG831155
(S) p-Terphenyl-d14	*79.4*		*29.3-137*		*11/25/2015 07:45*	WG831155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/29/2015 16:13	WG832075
(S) Toluene-d8	*105*		*70.0-130*		*11/29/2015 16:13*	WG832075

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		250	1	11/27/2015 17:14	WG831937

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	1540		100	1	11/20/2015 20:56	WG830551
Sulfate	7310		5000	1	11/20/2015 20:56	WG830551

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/21/2015 16:29	WG830593

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/27/2015 12:47	WG831407
Arsenic	ND		2.00	1	11/27/2015 12:47	WG831407
Beryllium	ND		2.00	1	11/27/2015 12:47	WG831407
Cadmium	ND		1.00	1	11/27/2015 12:47	WG831407
Chromium	ND		2.00	1	11/27/2015 12:47	WG831407
Copper	ND		5.00	1	11/27/2015 12:47	WG831407
Iron	ND		100	1	11/27/2015 12:47	WG831407
Lead	ND		2.00	1	11/27/2015 12:47	WG831407
Manganese	32.5		5.00	1	11/27/2015 12:47	WG831407
Nickel	ND		2.00	1	11/27/2015 12:47	WG831407
Selenium	ND		2.00	1	11/27/2015 12:47	WG831407
Silver	ND		2.00	1	11/27/2015 12:47	WG831407
Thallium	ND		2.00	1	11/27/2015 12:47	WG831407
Zinc	ND		25.0	1	11/27/2015 12:47	WG831407

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/27/2015 07:58	WG830835
Acrolein	ND		50.0	1	11/27/2015 07:58	WG830835
Acrylonitrile	ND		10.0	1	11/27/2015 07:58	WG830835
Benzene	ND		1.00	1	11/27/2015 07:58	WG830835
Bromobenzene	ND		1.00	1	11/27/2015 07:58	WG830835
Bromodichloromethane	ND		1.00	1	11/27/2015 07:58	WG830835
Bromoform	ND		1.00	1	11/27/2015 07:58	WG830835
Bromomethane	ND		5.00	1	11/27/2015 07:58	WG830835
n-Butylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
sec-Butylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
tert-Butylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
Carbon tetrachloride	ND		1.00	1	11/27/2015 07:58	WG830835
Chlorobenzene	ND		1.00	1	11/27/2015 07:58	WG830835
Chlorodibromomethane	ND		1.00	1	11/27/2015 07:58	WG830835
Chloroethane	ND		5.00	1	11/27/2015 07:58	WG830835
2-Chloroethyl vinyl ether	ND		50.0	1	11/27/2015 07:58	WG830835
Chloroform	ND		5.00	1	11/27/2015 07:58	WG830835
Chloromethane	ND	J4	2.50	1	11/27/2015 07:58	WG830835
2-Chlorotoluene	ND		1.00	1	11/27/2015 07:58	WG830835
4-Chlorotoluene	ND		1.00	1	11/27/2015 07:58	WG830835

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/27/2015 07:58	WG830835
1,2-Dibromoethane	ND		1.00	1	11/27/2015 07:58	WG830835
Dibromomethane	ND		1.00	1	11/27/2015 07:58	WG830835
1,2-Dichlorobenzene	ND		1.00	1	11/27/2015 07:58	WG830835
1,3-Dichlorobenzene	ND		1.00	1	11/27/2015 07:58	WG830835
1,4-Dichlorobenzene	ND		1.00	1	11/27/2015 07:58	WG830835
Dichlorodifluoromethane	ND		5.00	1	11/27/2015 07:58	WG830835
1,1-Dichloroethane	ND		1.00	1	11/27/2015 07:58	WG830835
1,2-Dichloroethane	ND		1.00	1	11/27/2015 07:58	WG830835
1,1-Dichloroethene	ND		1.00	1	11/27/2015 07:58	WG830835
cis-1,2-Dichloroethene	ND		1.00	1	11/27/2015 07:58	WG830835
trans-1,2-Dichloroethene	ND		1.00	1	11/27/2015 07:58	WG830835
1,2-Dichloropropane	ND		1.00	1	11/27/2015 07:58	WG830835
1,1-Dichloropropene	ND		1.00	1	11/27/2015 07:58	WG830835
1,3-Dichloropropane	ND		1.00	1	11/27/2015 07:58	WG830835
cis-1,3-Dichloropropene	ND		1.00	1	11/27/2015 07:58	WG830835
trans-1,3-Dichloropropene	ND		1.00	1	11/27/2015 07:58	WG830835
2,2-Dichloropropane	ND		1.00	1	11/27/2015 07:58	WG830835
Di-isopropyl ether	ND		1.00	1	11/27/2015 07:58	WG830835
Ethylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
Hexachloro-1,3-butadiene	ND		1.00	1	11/27/2015 07:58	WG830835
Isopropylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
p-Isopropyltoluene	ND		1.00	1	11/27/2015 07:58	WG830835
2-Butanone (MEK)	ND		10.0	1	11/27/2015 07:58	WG830835
Methylene Chloride	ND		5.00	1	11/27/2015 07:58	WG830835
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/27/2015 07:58	WG830835
Methyl tert-butyl ether	ND		1.00	1	11/27/2015 07:58	WG830835
Naphthalene	ND		5.00	1	11/27/2015 07:58	WG830835
n-Propylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
Styrene	ND		1.00	1	11/27/2015 07:58	WG830835
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/27/2015 07:58	WG830835
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/27/2015 07:58	WG830835
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/27/2015 07:58	WG830835
Tetrachloroethene	ND		1.00	1	11/27/2015 07:58	WG830835
Toluene	ND		5.00	1	11/27/2015 07:58	WG830835
1,2,3-Trichlorobenzene	ND		1.00	1	11/27/2015 07:58	WG830835
1,2,4-Trichlorobenzene	ND		1.00	1	11/27/2015 07:58	WG830835
1,1,1-Trichloroethane	ND		1.00	1	11/27/2015 07:58	WG830835
1,1,2-Trichloroethane	ND		1.00	1	11/27/2015 07:58	WG830835
Trichloroethene	ND		1.00	1	11/27/2015 07:58	WG830835
Trichlorofluoromethane	ND		5.00	1	11/27/2015 07:58	WG830835
1,2,3-Trichloropropane	ND		2.50	1	11/27/2015 07:58	WG830835
1,2,4-Trimethylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
1,2,3-Trimethylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
1,3,5-Trimethylbenzene	ND		1.00	1	11/27/2015 07:58	WG830835
Vinyl chloride	ND		1.00	1	11/27/2015 07:58	WG830835
Xylenes, Total	ND		3.00	1	11/27/2015 07:58	WG830835
(S) Toluene-d8	*104*		*90.0-115*		*11/27/2015 07:58*	WG830835
(S) Dibromofluoromethane	*99.2*		*79.0-121*		*11/27/2015 07:58*	WG830835
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*11/27/2015 07:58*	WG830835

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/25/2015 08:08	WG831155
Acenaphthylene	ND		1.00	1	11/25/2015 08:08	WG831155
Anthracene	ND		1.00	1	11/25/2015 08:08	WG831155
Benzidine	ND		10.0	1	11/25/2015 08:08	WG831155
Benzo(a)anthracene	ND		1.00	1	11/25/2015 08:08	WG831155
Benzo(b)fluoranthene	ND		1.00	1	11/25/2015 08:08	WG831155
Benzo(k)fluoranthene	ND		1.00	1	11/25/2015 08:08	WG831155
Benzo(g,h,i)perylene	ND		1.00	1	11/25/2015 08:08	WG831155
Benzo(a)pyrene	ND		1.00	1	11/25/2015 08:08	WG831155
Bis(2-chlorethoxy)methane	ND		10.0	1	11/25/2015 08:08	WG831155
Bis(2-chloroethyl)ether	ND		10.0	1	11/25/2015 08:08	WG831155
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/25/2015 08:08	WG831155
4-Bromophenyl-phenylether	ND		10.0	1	11/25/2015 08:08	WG831155
2-Chloronaphthalene	ND		1.00	1	11/25/2015 08:08	WG831155
4-Chlorophenyl-phenylether	ND		10.0	1	11/25/2015 08:08	WG831155
Chrysene	ND		1.00	1	11/25/2015 08:08	WG831155
Dibenz(a,h)anthracene	ND		1.00	1	11/25/2015 08:08	WG831155
3,3-Dichlorobenzidine	ND		10.0	1	11/25/2015 08:08	WG831155
2,4-Dinitrotoluene	ND		10.0	1	11/25/2015 08:08	WG831155
2,6-Dinitrotoluene	ND		10.0	1	11/25/2015 08:08	WG831155
Fluoranthene	ND		1.00	1	11/25/2015 08:08	WG831155
Fluorene	ND		1.00	1	11/25/2015 08:08	WG831155
Hexachlorobenzene	ND		1.00	1	11/25/2015 08:08	WG831155
Hexachloro-1,3-butadiene	ND		10.0	1	11/25/2015 08:08	WG831155
Hexachlorocyclopentadiene	ND		10.0	1	11/25/2015 08:08	WG831155
Hexachloroethane	ND		10.0	1	11/25/2015 08:08	WG831155
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/25/2015 08:08	WG831155
Isophorone	ND		10.0	1	11/25/2015 08:08	WG831155
Naphthalene	ND		1.00	1	11/25/2015 08:08	WG831155
Nitrobenzene	ND		10.0	1	11/25/2015 08:08	WG831155
n-Nitrosodimethylamine	ND	J3	10.0	1	11/25/2015 08:08	WG831155
n-Nitrosodiphenylamine	ND		10.0	1	11/25/2015 08:08	WG831155
n-Nitrosodi-n-propylamine	ND	J3 J4	10.0	1	11/25/2015 08:08	WG831155
Phenanthrene	ND		1.00	1	11/25/2015 08:08	WG831155
Benzylbutyl phthalate	ND		3.00	1	11/25/2015 08:08	WG831155
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/25/2015 08:08	WG831155
Di-n-butyl phthalate	ND		3.00	1	11/25/2015 08:08	WG831155
Diethyl phthalate	ND		3.00	1	11/25/2015 08:08	WG831155
Dimethyl phthalate	ND		3.00	1	11/25/2015 08:08	WG831155
Di-n-octyl phthalate	ND		3.00	1	11/25/2015 08:08	WG831155
Pyrene	ND		1.00	1	11/25/2015 08:08	WG831155
1,2,4-Trichlorobenzene	ND		10.0	1	11/25/2015 08:08	WG831155
4-Chloro-3-methylphenol	ND		10.0	1	11/25/2015 08:08	WG831155
2-Chlorophenol	ND		10.0	1	11/25/2015 08:08	WG831155
2,4-Dichlorophenol	ND		10.0	1	11/25/2015 08:08	WG831155
2,4-Dimethylphenol	ND		10.0	1	11/25/2015 08:08	WG831155
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/25/2015 08:08	WG831155
2,4-Dinitrophenol	ND		10.0	1	11/25/2015 08:08	WG831155
2-Nitrophenol	ND		10.0	1	11/25/2015 08:08	WG831155
4-Nitrophenol	ND		10.0	1	11/25/2015 08:08	WG831155
Pentachlorophenol	ND		10.0	1	11/25/2015 08:08	WG831155
Phenol	ND		10.0	1	11/25/2015 08:08	WG831155
2,4,6-Trichlorophenol	ND		10.0	1	11/25/2015 08:08	WG831155
(S) 2-Fluorophenol	*44.8*		*10.0-77.9*		*11/25/2015 08:08*	WG831155
(S) Phenol-d5	*30.3*		*5.00-70.1*		*11/25/2015 08:08*	WG831155
(S) Nitrobenzene-d5	*62.6*		*21.8-123*		*11/25/2015 08:08*	WG831155

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*63.6*		*29.5-131*		*11/25/2015 08:08*	WG831155
(S) 2,4,6-Tribromophenol	*63.3*		*11.2-130*		*11/25/2015 08:08*	WG831155
(S) p-Terphenyl-d14	*72.8*		*29.3-137*		*11/25/2015 08:08*	WG831155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/29/2015 16:32	WG832075
(S) Toluene-d8	*106*		*70.0-130*		*11/29/2015 16:32*	WG832075

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		250	1	11/27/2015 17:17	WG831937

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	ND		100	1	11/20/2015 21:11	WG830551
Sulfate	134000		25000	5	11/25/2015 13:10	WG831412

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/21/2015 16:37	WG830593

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/27/2015 13:00	WG831407
Arsenic	ND		2.00	1	11/27/2015 13:00	WG831407
Beryllium	ND		2.00	1	11/27/2015 13:00	WG831407
Cadmium	ND		1.00	1	11/27/2015 13:00	WG831407
Chromium	3.49		2.00	1	11/27/2015 13:00	WG831407
Copper	28.2		5.00	1	11/27/2015 13:00	WG831407
Iron	1740		100	1	11/27/2015 13:00	WG831407
Lead	16.2		2.00	1	11/27/2015 13:00	WG831407
Manganese	728		5.00	1	11/27/2015 13:00	WG831407
Nickel	21.4		2.00	1	11/27/2015 13:00	WG831407
Selenium	2.25		2.00	1	11/27/2015 13:00	WG831407
Silver	4.20		2.00	1	11/27/2015 13:00	WG831407
Thallium	ND		2.00	1	11/27/2015 13:00	WG831407
Zinc	62.2		25.0	1	11/27/2015 13:00	WG831407

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/27/2015 08:22	WG830835
Acrolein	ND		50.0	1	11/27/2015 08:22	WG830835
Acrylonitrile	ND		10.0	1	11/27/2015 08:22	WG830835
Benzene	ND		1.00	1	11/27/2015 08:22	WG830835
Bromobenzene	ND		1.00	1	11/27/2015 08:22	WG830835
Bromodichloromethane	ND		1.00	1	11/27/2015 08:22	WG830835
Bromoform	ND		1.00	1	11/27/2015 08:22	WG830835
Bromomethane	ND		5.00	1	11/27/2015 08:22	WG830835
n-Butylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
sec-Butylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
tert-Butylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
Carbon tetrachloride	ND		1.00	1	11/27/2015 08:22	WG830835
Chlorobenzene	ND		1.00	1	11/27/2015 08:22	WG830835
Chlorodibromomethane	ND		1.00	1	11/27/2015 08:22	WG830835
Chloroethane	ND		5.00	1	11/27/2015 08:22	WG830835
2-Chloroethyl vinyl ether	ND		50.0	1	11/27/2015 08:22	WG830835
Chloroform	ND		5.00	1	11/27/2015 08:22	WG830835
Chloromethane	ND	J4	2.50	1	11/27/2015 08:22	WG830835
2-Chlorotoluene	ND		1.00	1	11/27/2015 08:22	WG830835
4-Chlorotoluene	ND		1.00	1	11/27/2015 08:22	WG830835

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/27/2015 08:22	WG830835
1,2-Dibromoethane	ND		1.00	1	11/27/2015 08:22	WG830835
Dibromomethane	ND		1.00	1	11/27/2015 08:22	WG830835
1,2-Dichlorobenzene	ND		1.00	1	11/27/2015 08:22	WG830835
1,3-Dichlorobenzene	ND		1.00	1	11/27/2015 08:22	WG830835
1,4-Dichlorobenzene	ND		1.00	1	11/27/2015 08:22	WG830835
Dichlorodifluoromethane	ND		5.00	1	11/27/2015 08:22	WG830835
1,1-Dichloroethane	ND		1.00	1	11/27/2015 08:22	WG830835
1,2-Dichloroethane	ND		1.00	1	11/27/2015 08:22	WG830835
1,1-Dichloroethene	ND		1.00	1	11/27/2015 08:22	WG830835
cis-1,2-Dichloroethene	ND		1.00	1	11/27/2015 08:22	WG830835
trans-1,2-Dichloroethene	ND		1.00	1	11/27/2015 08:22	WG830835
1,2-Dichloropropane	ND		1.00	1	11/27/2015 08:22	WG830835
1,1-Dichloropropene	ND		1.00	1	11/27/2015 08:22	WG830835
1,3-Dichloropropane	ND		1.00	1	11/27/2015 08:22	WG830835
cis-1,3-Dichloropropene	ND		1.00	1	11/27/2015 08:22	WG830835
trans-1,3-Dichloropropene	ND		1.00	1	11/27/2015 08:22	WG830835
2,2-Dichloropropane	ND		1.00	1	11/27/2015 08:22	WG830835
Di-isopropyl ether	ND		1.00	1	11/27/2015 08:22	WG830835
Ethylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
Hexachloro-1,3-butadiene	ND		1.00	1	11/27/2015 08:22	WG830835
Isopropylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
p-Isopropyltoluene	ND		1.00	1	11/27/2015 08:22	WG830835
2-Butanone (MEK)	ND		10.0	1	11/27/2015 08:22	WG830835
Methylene Chloride	ND		5.00	1	11/27/2015 08:22	WG830835
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/27/2015 08:22	WG830835
Methyl tert-butyl ether	ND		1.00	1	11/27/2015 08:22	WG830835
Naphthalene	ND		5.00	1	11/27/2015 08:22	WG830835
n-Propylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
Styrene	ND		1.00	1	11/27/2015 08:22	WG830835
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/27/2015 08:22	WG830835
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/27/2015 08:22	WG830835
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/27/2015 08:22	WG830835
Tetrachloroethene	ND		1.00	1	11/27/2015 08:22	WG830835
Toluene	ND		5.00	1	11/27/2015 08:22	WG830835
1,2,3-Trichlorobenzene	ND		1.00	1	11/27/2015 08:22	WG830835
1,2,4-Trichlorobenzene	ND		1.00	1	11/27/2015 08:22	WG830835
1,1,1-Trichloroethane	ND		1.00	1	11/27/2015 08:22	WG830835
1,1,2-Trichloroethane	ND		1.00	1	11/27/2015 08:22	WG830835
Trichloroethene	ND		1.00	1	11/27/2015 08:22	WG830835
Trichlorofluoromethane	ND		5.00	1	11/27/2015 08:22	WG830835
1,2,3-Trichloropropane	ND		2.50	1	11/27/2015 08:22	WG830835
1,2,4-Trimethylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
1,2,3-Trimethylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
1,3,5-Trimethylbenzene	ND		1.00	1	11/27/2015 08:22	WG830835
Vinyl chloride	ND		1.00	1	11/27/2015 08:22	WG830835
Xylenes, Total	ND		3.00	1	11/27/2015 08:22	WG830835
(S) Toluene-d8	*106*		*90.0-115*		*11/27/2015 08:22*	WG830835
(S) Dibromofluoromethane	*94.2*		*79.0-121*		*11/27/2015 08:22*	WG830835
(S) 4-Bromofluorobenzene	*103*		*80.1-120*		*11/27/2015 08:22*	WG830835

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/25/2015 08:32	WG831155
Acenaphthylene	ND		1.00	1	11/25/2015 08:32	WG831155
Anthracene	ND		1.00	1	11/25/2015 08:32	WG831155
Benzidine	ND		10.0	1	11/25/2015 08:32	WG831155
Benzo(a)anthracene	ND		1.00	1	11/25/2015 08:32	WG831155
Benzo(b)fluoranthene	ND		1.00	1	11/25/2015 08:32	WG831155
Benzo(k)fluoranthene	ND		1.00	1	11/25/2015 08:32	WG831155
Benzo(g,h,i)perylene	ND		1.00	1	11/25/2015 08:32	WG831155
Benzo(a)pyrene	ND		1.00	1	11/25/2015 08:32	WG831155
Bis(2-chlorethoxy)methane	ND		10.0	1	11/25/2015 08:32	WG831155
Bis(2-chloroethyl)ether	ND		10.0	1	11/25/2015 08:32	WG831155
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/25/2015 08:32	WG831155
4-Bromophenyl-phenylether	ND		10.0	1	11/25/2015 08:32	WG831155
2-Chloronaphthalene	ND		1.00	1	11/25/2015 08:32	WG831155
4-Chlorophenyl-phenylether	ND		10.0	1	11/25/2015 08:32	WG831155
Chrysene	ND		1.00	1	11/25/2015 08:32	WG831155
Dibenz(a,h)anthracene	ND		1.00	1	11/25/2015 08:32	WG831155
3,3-Dichlorobenzidine	ND		10.0	1	11/25/2015 08:32	WG831155
2,4-Dinitrotoluene	ND		10.0	1	11/25/2015 08:32	WG831155
2,6-Dinitrotoluene	ND		10.0	1	11/25/2015 08:32	WG831155
Fluoranthene	ND		1.00	1	11/25/2015 08:32	WG831155
Fluorene	ND		1.00	1	11/25/2015 08:32	WG831155
Hexachlorobenzene	ND		1.00	1	11/25/2015 08:32	WG831155
Hexachloro-1,3-butadiene	ND		10.0	1	11/25/2015 08:32	WG831155
Hexachlorocyclopentadiene	ND		10.0	1	11/25/2015 08:32	WG831155
Hexachloroethane	ND		10.0	1	11/25/2015 08:32	WG831155
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/25/2015 08:32	WG831155
Isophorone	ND		10.0	1	11/25/2015 08:32	WG831155
Naphthalene	ND		1.00	1	11/25/2015 08:32	WG831155
Nitrobenzene	ND		10.0	1	11/25/2015 08:32	WG831155
n-Nitrosodimethylamine	ND	J3	10.0	1	11/25/2015 08:32	WG831155
n-Nitrosodiphenylamine	ND		10.0	1	11/25/2015 08:32	WG831155
n-Nitrosodi-n-propylamine	ND	J3 J4	10.0	1	11/25/2015 08:32	WG831155
Phenanthrene	ND		1.00	1	11/25/2015 08:32	WG831155
Benzylbutyl phthalate	ND		3.00	1	11/25/2015 08:32	WG831155
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/25/2015 08:32	WG831155
Di-n-butyl phthalate	ND		3.00	1	11/25/2015 08:32	WG831155
Diethyl phthalate	ND		3.00	1	11/25/2015 08:32	WG831155
Dimethyl phthalate	ND		3.00	1	11/25/2015 08:32	WG831155
Di-n-octyl phthalate	ND		3.00	1	11/25/2015 08:32	WG831155
Pyrene	ND		1.00	1	11/25/2015 08:32	WG831155
1,2,4-Trichlorobenzene	ND		10.0	1	11/25/2015 08:32	WG831155
4-Chloro-3-methylphenol	ND		10.0	1	11/25/2015 08:32	WG831155
2-Chlorophenol	ND		10.0	1	11/25/2015 08:32	WG831155
2,4-Dichlorophenol	ND		10.0	1	11/25/2015 08:32	WG831155
2,4-Dimethylphenol	ND		10.0	1	11/25/2015 08:32	WG831155
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/25/2015 08:32	WG831155
2,4-Dinitrophenol	ND		10.0	1	11/25/2015 08:32	WG831155
2-Nitrophenol	ND		10.0	1	11/25/2015 08:32	WG831155
4-Nitrophenol	ND		10.0	1	11/25/2015 08:32	WG831155
Pentachlorophenol	ND		10.0	1	11/25/2015 08:32	WG831155
Phenol	ND		10.0	1	11/25/2015 08:32	WG831155
2,4,6-Trichlorophenol	ND		10.0	1	11/25/2015 08:32	WG831155
(S) 2-Fluorophenol	*51.1*		*10.0-77.9*		*11/25/2015 08:32*	WG831155
(S) Phenol-d5	*36.4*		*5.00-70.1*		*11/25/2015 08:32*	WG831155
(S) Nitrobenzene-d5	*66.6*		*21.8-123*		*11/25/2015 08:32*	WG831155

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*67.7*		*29.5-131*		*11/25/2015 08:32*	WG831155
(S) 2,4,6-Tribromophenol	*70.8*		*11.2-130*		*11/25/2015 08:32*	WG831155
(S) p-Terphenyl-d14	*80.9*		*29.3-137*		*11/25/2015 08:32*	WG831155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/25/2015 09:42	WG831359
(S) Toluene-d8	*110*		*70.0-130*		*11/25/2015 09:42*	WG831359

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	532		250	1	11/27/2015 17:19	WG831937

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	ND		100	1	11/20/2015 21:25	WG830551
Sulfate	104000		25000	5	11/25/2015 15:13	WG831412

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/21/2015 16:39	WG830593

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		10.0	5	11/27/2015 13:22	WG831407
Arsenic	28.9		10.0	5	11/27/2015 13:22	WG831407
Beryllium	43.1		10.0	5	11/27/2015 13:22	WG831407
Cadmium	6.18		5.00	5	11/27/2015 13:22	WG831407
Chromium	329		10.0	5	11/27/2015 13:22	WG831407
Copper	700		25.0	5	11/27/2015 13:22	WG831407
Iron	212000		10000	100	11/27/2015 13:29	WG831407
Lead	240		10.0	5	11/27/2015 13:22	WG831407
Manganese	21300		500	100	11/27/2015 13:29	WG831407
Nickel	410		10.0	5	11/27/2015 13:22	WG831407
Selenium	27.4		10.0	5	11/27/2015 13:22	WG831407
Silver	ND		10.0	5	11/27/2015 13:22	WG831407
Thallium	ND		10.0	5	11/27/2015 13:22	WG831407
Zinc	1890		1250	50	11/27/2015 13:19	WG831407

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/27/2015 08:46	WG830835
Acrolein	ND		50.0	1	11/27/2015 08:46	WG830835
Acrylonitrile	ND		10.0	1	11/27/2015 08:46	WG830835
Benzene	ND		1.00	1	11/27/2015 08:46	WG830835
Bromobenzene	ND		1.00	1	11/27/2015 08:46	WG830835
Bromodichloromethane	ND		1.00	1	11/27/2015 08:46	WG830835
Bromoform	ND		1.00	1	11/27/2015 08:46	WG830835
Bromomethane	ND		5.00	1	11/27/2015 08:46	WG830835
n-Butylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
sec-Butylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
tert-Butylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
Carbon tetrachloride	ND		1.00	1	11/27/2015 08:46	WG830835
Chlorobenzene	ND		1.00	1	11/27/2015 08:46	WG830835
Chlorodibromomethane	ND		1.00	1	11/27/2015 08:46	WG830835
Chloroethane	ND		5.00	1	11/27/2015 08:46	WG830835
2-Chloroethyl vinyl ether	ND		50.0	1	11/27/2015 08:46	WG830835
Chloroform	ND		5.00	1	11/27/2015 08:46	WG830835
Chloromethane	ND	J4	2.50	1	11/27/2015 08:46	WG830835
2-Chlorotoluene	ND		1.00	1	11/27/2015 08:46	WG830835
4-Chlorotoluene	ND		1.00	1	11/27/2015 08:46	WG830835

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/27/2015 08:46	WG830835
1,2-Dibromoethane	ND		1.00	1	11/27/2015 08:46	WG830835
Dibromomethane	ND		1.00	1	11/27/2015 08:46	WG830835
1,2-Dichlorobenzene	ND		1.00	1	11/27/2015 08:46	WG830835
1,3-Dichlorobenzene	ND		1.00	1	11/27/2015 08:46	WG830835
1,4-Dichlorobenzene	ND		1.00	1	11/27/2015 08:46	WG830835
Dichlorodifluoromethane	ND		5.00	1	11/27/2015 08:46	WG830835
1,1-Dichloroethane	ND		1.00	1	11/27/2015 08:46	WG830835
1,2-Dichloroethane	ND		1.00	1	11/27/2015 08:46	WG830835
1,1-Dichloroethene	ND		1.00	1	11/27/2015 08:46	WG830835
cis-1,2-Dichloroethene	ND		1.00	1	11/27/2015 08:46	WG830835
trans-1,2-Dichloroethene	ND		1.00	1	11/27/2015 08:46	WG830835
1,2-Dichloropropane	ND		1.00	1	11/27/2015 08:46	WG830835
1,1-Dichloropropene	ND		1.00	1	11/27/2015 08:46	WG830835
1,3-Dichloropropane	ND		1.00	1	11/27/2015 08:46	WG830835
cis-1,3-Dichloropropene	ND		1.00	1	11/27/2015 08:46	WG830835
trans-1,3-Dichloropropene	ND		1.00	1	11/27/2015 08:46	WG830835
2,2-Dichloropropane	ND		1.00	1	11/27/2015 08:46	WG830835
Di-isopropyl ether	ND		1.00	1	11/27/2015 08:46	WG830835
Ethylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
Hexachloro-1,3-butadiene	ND		1.00	1	11/27/2015 08:46	WG830835
Isopropylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
p-Isopropyltoluene	ND		1.00	1	11/27/2015 08:46	WG830835
2-Butanone (MEK)	ND		10.0	1	11/27/2015 08:46	WG830835
Methylene Chloride	ND		5.00	1	11/27/2015 08:46	WG830835
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/27/2015 08:46	WG830835
Methyl tert-butyl ether	ND		1.00	1	11/27/2015 08:46	WG830835
Naphthalene	ND		5.00	1	11/27/2015 08:46	WG830835
n-Propylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
Styrene	ND		1.00	1	11/27/2015 08:46	WG830835
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/27/2015 08:46	WG830835
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/27/2015 08:46	WG830835
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/27/2015 08:46	WG830835
Tetrachloroethene	ND		1.00	1	11/27/2015 08:46	WG830835
Toluene	ND		5.00	1	11/27/2015 08:46	WG830835
1,2,3-Trichlorobenzene	ND		1.00	1	11/27/2015 08:46	WG830835
1,2,4-Trichlorobenzene	ND		1.00	1	11/27/2015 08:46	WG830835
1,1,1-Trichloroethane	ND		1.00	1	11/27/2015 08:46	WG830835
1,1,2-Trichloroethane	ND		1.00	1	11/27/2015 08:46	WG830835
Trichloroethene	ND		1.00	1	11/27/2015 08:46	WG830835
Trichlorofluoromethane	ND		5.00	1	11/27/2015 08:46	WG830835
1,2,3-Trichloropropane	ND		2.50	1	11/27/2015 08:46	WG830835
1,2,4-Trimethylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
1,2,3-Trimethylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
1,3,5-Trimethylbenzene	ND		1.00	1	11/27/2015 08:46	WG830835
Vinyl chloride	ND		1.00	1	11/27/2015 08:46	WG830835
Xylenes, Total	ND		3.00	1	11/27/2015 08:46	WG830835
(S) Toluene-d8	*102*		*90.0-115*		*11/27/2015 08:46*	WG830835
(S) Dibromofluoromethane	*95.8*		*79.0-121*		*11/27/2015 08:46*	WG830835
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*11/27/2015 08:46*	WG830835

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/25/2015 08:55	WG831155
Acenaphthylene	ND		1.00	1	11/25/2015 08:55	WG831155
Anthracene	ND		1.00	1	11/25/2015 08:55	WG831155
Benzidine	ND		10.0	1	11/25/2015 08:55	WG831155
Benzo(a)anthracene	ND		1.00	1	11/25/2015 08:55	WG831155
Benzo(b)fluoranthene	ND		1.00	1	11/25/2015 08:55	WG831155
Benzo(k)fluoranthene	ND		1.00	1	11/25/2015 08:55	WG831155
Benzo(g,h,i)perylene	ND		1.00	1	11/25/2015 08:55	WG831155
Benzo(a)pyrene	ND		1.00	1	11/25/2015 08:55	WG831155
Bis(2-chlorethoxy)methane	ND		10.0	1	11/25/2015 08:55	WG831155
Bis(2-chloroethyl)ether	ND		10.0	1	11/25/2015 08:55	WG831155
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/25/2015 08:55	WG831155
4-Bromophenyl-phenylether	ND		10.0	1	11/25/2015 08:55	WG831155
2-Chloronaphthalene	ND		1.00	1	11/25/2015 08:55	WG831155
4-Chlorophenyl-phenylether	ND		10.0	1	11/25/2015 08:55	WG831155
Chrysene	ND		1.00	1	11/25/2015 08:55	WG831155
Dibenz(a,h)anthracene	ND		1.00	1	11/25/2015 08:55	WG831155
3,3-Dichlorobenzidine	ND		10.0	1	11/25/2015 08:55	WG831155
2,4-Dinitrotoluene	ND		10.0	1	11/25/2015 08:55	WG831155
2,6-Dinitrotoluene	ND		10.0	1	11/25/2015 08:55	WG831155
Fluoranthene	ND		1.00	1	11/25/2015 08:55	WG831155
Fluorene	ND		1.00	1	11/25/2015 08:55	WG831155
Hexachlorobenzene	ND		1.00	1	11/25/2015 08:55	WG831155
Hexachloro-1,3-butadiene	ND		10.0	1	11/25/2015 08:55	WG831155
Hexachlorocyclopentadiene	ND		10.0	1	11/25/2015 08:55	WG831155
Hexachloroethane	ND		10.0	1	11/25/2015 08:55	WG831155
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/25/2015 08:55	WG831155
Isophorone	ND		10.0	1	11/25/2015 08:55	WG831155
Naphthalene	ND		1.00	1	11/25/2015 08:55	WG831155
Nitrobenzene	ND		10.0	1	11/25/2015 08:55	WG831155
n-Nitrosodimethylamine	ND	J3	10.0	1	11/25/2015 08:55	WG831155
n-Nitrosodiphenylamine	ND		10.0	1	11/25/2015 08:55	WG831155
n-Nitrosodi-n-propylamine	ND	J3 J4	10.0	1	11/25/2015 08:55	WG831155
Phenanthrene	ND		1.00	1	11/25/2015 08:55	WG831155
Benzylbutyl phthalate	ND		3.00	1	11/25/2015 08:55	WG831155
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/25/2015 08:55	WG831155
Di-n-butyl phthalate	ND		3.00	1	11/25/2015 08:55	WG831155
Diethyl phthalate	ND		3.00	1	11/25/2015 08:55	WG831155
Dimethyl phthalate	ND		3.00	1	11/25/2015 08:55	WG831155
Di-n-octyl phthalate	ND		3.00	1	11/25/2015 08:55	WG831155
Pyrene	ND		1.00	1	11/25/2015 08:55	WG831155
1,2,4-Trichlorobenzene	ND		10.0	1	11/25/2015 08:55	WG831155
4-Chloro-3-methylphenol	ND		10.0	1	11/25/2015 08:55	WG831155
2-Chlorophenol	ND		10.0	1	11/25/2015 08:55	WG831155
2,4-Dichlorophenol	ND		10.0	1	11/25/2015 08:55	WG831155
2,4-Dimethylphenol	ND		10.0	1	11/25/2015 08:55	WG831155
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/25/2015 08:55	WG831155
2,4-Dinitrophenol	ND		10.0	1	11/25/2015 08:55	WG831155
2-Nitrophenol	ND		10.0	1	11/25/2015 08:55	WG831155
4-Nitrophenol	ND		10.0	1	11/25/2015 08:55	WG831155
Pentachlorophenol	ND		10.0	1	11/25/2015 08:55	WG831155
Phenol	ND		10.0	1	11/25/2015 08:55	WG831155
2,4,6-Trichlorophenol	ND		10.0	1	11/25/2015 08:55	WG831155
(S) 2-Fluorophenol	*55.4*		*10.0-77.9*		*11/25/2015 08:55*	WG831155
(S) Phenol-d5	*37.5*		*5.00-70.1*		*11/25/2015 08:55*	WG831155
(S) Nitrobenzene-d5	*68.6*		*21.8-123*		*11/25/2015 08:55*	WG831155

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*71.2*		*29.5-131*		*11/25/2015 08:55*	WG831155
(S) 2,4,6-Tribromophenol	*70.3*		*11.2-130*		*11/25/2015 08:55*	WG831155
(S) p-Terphenyl-d14	*81.3*		*29.3-137*		*11/25/2015 08:55*	WG831155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/29/2015 16:52	WG832075
(S) Toluene-d8	*106*		*70.0-130*		*11/29/2015 16:52*	WG832075

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		250	1	11/27/2015 17:29	WG831937

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	1630		100	1	11/20/2015 21:40	WG830551
Sulfate	8900		5000	1	11/20/2015 21:40	WG830551

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/21/2015 16:42	WG830593

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/27/2015 13:05	WG831407
Arsenic	ND		2.00	1	11/27/2015 13:05	WG831407
Beryllium	ND		2.00	1	11/27/2015 13:05	WG831407
Cadmium	ND		1.00	1	11/27/2015 13:05	WG831407
Chromium	2.07		2.00	1	11/27/2015 13:05	WG831407
Copper	ND		5.00	1	11/27/2015 13:05	WG831407
Iron	ND		100	1	11/27/2015 13:05	WG831407
Lead	ND		2.00	1	11/27/2015 13:05	WG831407
Manganese	24.8		5.00	1	11/27/2015 13:05	WG831407
Nickel	2.05		2.00	1	11/27/2015 13:05	WG831407
Selenium	ND		2.00	1	11/27/2015 13:05	WG831407
Silver	ND		2.00	1	11/27/2015 13:05	WG831407
Thallium	ND		2.00	1	11/27/2015 13:05	WG831407
Zinc	ND		25.0	1	11/27/2015 13:05	WG831407

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/01/2015 11:01	WG832478
Acrolein	ND		50.0	1	12/01/2015 11:01	WG832478
Acrylonitrile	ND		10.0	1	12/01/2015 11:01	WG832478
Benzene	ND		1.00	1	12/01/2015 11:01	WG832478
Bromobenzene	ND		1.00	1	12/01/2015 11:01	WG832478
Bromodichloromethane	ND		1.00	1	12/01/2015 11:01	WG832478
Bromoform	ND		1.00	1	12/01/2015 11:01	WG832478
Bromomethane	ND		5.00	1	12/01/2015 11:01	WG832478
n-Butylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
sec-Butylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
tert-Butylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
Carbon tetrachloride	ND		1.00	1	12/01/2015 11:01	WG832478
Chlorobenzene	ND		1.00	1	12/01/2015 11:01	WG832478
Chlorodibromomethane	ND		1.00	1	12/01/2015 11:01	WG832478
Chloroethane	ND		5.00	1	12/01/2015 11:01	WG832478
2-Chloroethyl vinyl ether	ND		50.0	1	12/01/2015 11:01	WG832478
Chloroform	ND		5.00	1	12/01/2015 11:01	WG832478
Chloromethane	ND		2.50	1	12/01/2015 11:01	WG832478
2-Chlorotoluene	ND		1.00	1	12/01/2015 11:01	WG832478
4-Chlorotoluene	ND		1.00	1	12/01/2015 11:01	WG832478

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/01/2015 11:01	WG832478
1,2-Dibromoethane	ND		1.00	1	12/01/2015 11:01	WG832478
Dibromomethane	ND		1.00	1	12/01/2015 11:01	WG832478
1,2-Dichlorobenzene	ND		1.00	1	12/01/2015 11:01	WG832478
1,3-Dichlorobenzene	ND		1.00	1	12/01/2015 11:01	WG832478
1,4-Dichlorobenzene	ND		1.00	1	12/01/2015 11:01	WG832478
Dichlorodifluoromethane	ND		5.00	1	12/01/2015 11:01	WG832478
1,1-Dichloroethane	ND		1.00	1	12/01/2015 11:01	WG832478
1,2-Dichloroethane	ND		1.00	1	12/01/2015 11:01	WG832478
1,1-Dichloroethene	ND		1.00	1	12/01/2015 11:01	WG832478
cis-1,2-Dichloroethene	ND		1.00	1	12/01/2015 11:01	WG832478
trans-1,2-Dichloroethene	ND		1.00	1	12/01/2015 11:01	WG832478
1,2-Dichloropropane	ND		1.00	1	12/01/2015 11:01	WG832478
1,1-Dichloropropene	ND		1.00	1	12/01/2015 11:01	WG832478
1,3-Dichloropropane	ND		1.00	1	12/01/2015 11:01	WG832478
cis-1,3-Dichloropropene	ND		1.00	1	12/01/2015 11:01	WG832478
trans-1,3-Dichloropropene	ND		1.00	1	12/01/2015 11:01	WG832478
2,2-Dichloropropane	ND		1.00	1	12/01/2015 11:01	WG832478
Di-isopropyl ether	ND		1.00	1	12/01/2015 11:01	WG832478
Ethylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
Hexachloro-1,3-butadiene	ND		1.00	1	12/01/2015 11:01	WG832478
Isopropylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
p-Isopropyltoluene	ND		1.00	1	12/01/2015 11:01	WG832478
2-Butanone (MEK)	ND		10.0	1	12/01/2015 11:01	WG832478
Methylene Chloride	ND		5.00	1	12/01/2015 11:01	WG832478
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/01/2015 11:01	WG832478
Methyl tert-butyl ether	ND		1.00	1	12/01/2015 11:01	WG832478
Naphthalene	ND		5.00	1	12/01/2015 11:01	WG832478
n-Propylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
Styrene	ND		1.00	1	12/01/2015 11:01	WG832478
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/01/2015 11:01	WG832478
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/01/2015 11:01	WG832478
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/01/2015 11:01	WG832478
Tetrachloroethene	ND		1.00	1	12/01/2015 11:01	WG832478
Toluene	ND		5.00	1	12/01/2015 11:01	WG832478
1,2,3-Trichlorobenzene	ND		1.00	1	12/01/2015 11:01	WG832478
1,2,4-Trichlorobenzene	ND		1.00	1	12/01/2015 11:01	WG832478
1,1,1-Trichloroethane	ND		1.00	1	12/01/2015 11:01	WG832478
1,1,2-Trichloroethane	ND		1.00	1	12/01/2015 11:01	WG832478
Trichloroethene	ND		1.00	1	12/01/2015 11:01	WG832478
Trichlorofluoromethane	ND		5.00	1	12/01/2015 11:01	WG832478
1,2,3-Trichloropropane	ND		2.50	1	12/01/2015 11:01	WG832478
1,2,4-Trimethylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
1,2,3-Trimethylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
1,3,5-Trimethylbenzene	ND		1.00	1	12/01/2015 11:01	WG832478
Vinyl chloride	ND		1.00	1	12/01/2015 11:01	WG832478
Xylenes, Total	ND		3.00	1	12/01/2015 11:01	WG832478
(S) Toluene-d8	*102*		*90.0-115*		*12/01/2015 11:01*	WG832478
(S) Dibromofluoromethane	*95.2*		*79.0-121*		*12/01/2015 11:01*	WG832478
(S) 4-Bromofluorobenzene	*90.7*		*80.1-120*		*12/01/2015 11:01*	WG832478

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/25/2015 09:18	WG831155
Acenaphthylene	ND		1.00	1	11/25/2015 09:18	WG831155
Anthracene	ND		1.00	1	11/25/2015 09:18	WG831155
Benzidine	ND		10.0	1	11/25/2015 09:18	WG831155
Benzo(a)anthracene	ND		1.00	1	11/25/2015 09:18	WG831155
Benzo(b)fluoranthene	ND		1.00	1	11/25/2015 09:18	WG831155
Benzo(k)fluoranthene	ND		1.00	1	11/25/2015 09:18	WG831155
Benzo(g,h,i)perylene	ND		1.00	1	11/25/2015 09:18	WG831155
Benzo(a)pyrene	ND		1.00	1	11/25/2015 09:18	WG831155
Bis(2-chlorethoxy)methane	ND		10.0	1	11/25/2015 09:18	WG831155
Bis(2-chloroethyl)ether	ND		10.0	1	11/25/2015 09:18	WG831155
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/25/2015 09:18	WG831155
4-Bromophenyl-phenylether	ND		10.0	1	11/25/2015 09:18	WG831155
2-Chloronaphthalene	ND		1.00	1	11/25/2015 09:18	WG831155
4-Chlorophenyl-phenylether	ND		10.0	1	11/25/2015 09:18	WG831155
Chrysene	ND		1.00	1	11/25/2015 09:18	WG831155
Dibenz(a,h)anthracene	ND		1.00	1	11/25/2015 09:18	WG831155
3,3-Dichlorobenzidine	ND		10.0	1	11/25/2015 09:18	WG831155
2,4-Dinitrotoluene	ND		10.0	1	11/25/2015 09:18	WG831155
2,6-Dinitrotoluene	ND		10.0	1	11/25/2015 09:18	WG831155
Fluoranthene	ND		1.00	1	11/25/2015 09:18	WG831155
Fluorene	ND		1.00	1	11/25/2015 09:18	WG831155
Hexachlorobenzene	ND		1.00	1	11/25/2015 09:18	WG831155
Hexachloro-1,3-butadiene	ND		10.0	1	11/25/2015 09:18	WG831155
Hexachlorocyclopentadiene	ND		10.0	1	11/25/2015 09:18	WG831155
Hexachloroethane	ND		10.0	1	11/25/2015 09:18	WG831155
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/25/2015 09:18	WG831155
Isophorone	ND		10.0	1	11/25/2015 09:18	WG831155
Naphthalene	ND		1.00	1	11/25/2015 09:18	WG831155
Nitrobenzene	ND		10.0	1	11/25/2015 09:18	WG831155
n-Nitrosodimethylamine	ND	J3	10.0	1	11/25/2015 09:18	WG831155
n-Nitrosodiphenylamine	ND		10.0	1	11/25/2015 09:18	WG831155
n-Nitrosodi-n-propylamine	ND	J3 J4	10.0	1	11/25/2015 09:18	WG831155
Phenanthrene	ND		1.00	1	11/25/2015 09:18	WG831155
Benzylbutyl phthalate	ND		3.00	1	11/25/2015 09:18	WG831155
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/25/2015 09:18	WG831155
Di-n-butyl phthalate	ND		3.00	1	11/25/2015 09:18	WG831155
Diethyl phthalate	ND		3.00	1	11/25/2015 09:18	WG831155
Dimethyl phthalate	ND		3.00	1	11/25/2015 09:18	WG831155
Di-n-octyl phthalate	ND		3.00	1	11/25/2015 09:18	WG831155
Pyrene	ND		1.00	1	11/25/2015 09:18	WG831155
1,2,4-Trichlorobenzene	ND		10.0	1	11/25/2015 09:18	WG831155
4-Chloro-3-methylphenol	ND		10.0	1	11/25/2015 09:18	WG831155
2-Chlorophenol	ND		10.0	1	11/25/2015 09:18	WG831155
2,4-Dichlorophenol	ND		10.0	1	11/25/2015 09:18	WG831155
2,4-Dimethylphenol	ND		10.0	1	11/25/2015 09:18	WG831155
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/25/2015 09:18	WG831155
2,4-Dinitrophenol	ND		10.0	1	11/25/2015 09:18	WG831155
2-Nitrophenol	ND		10.0	1	11/25/2015 09:18	WG831155
4-Nitrophenol	ND		10.0	1	11/25/2015 09:18	WG831155
Pentachlorophenol	ND		10.0	1	11/25/2015 09:18	WG831155
Phenol	ND		10.0	1	11/25/2015 09:18	WG831155
2,4,6-Trichlorophenol	ND		10.0	1	11/25/2015 09:18	WG831155
(S) 2-Fluorophenol	*43.5*		*10.0-77.9*		*11/25/2015 09:18*	WG831155
(S) Phenol-d5	*28.1*		*5.00-70.1*		*11/25/2015 09:18*	WG831155
(S) Nitrobenzene-d5	*60.6*		*21.8-123*		*11/25/2015 09:18*	WG831155

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*59.2*		*29.5-131*		*11/25/2015 09:18*	WG831155
(S) 2,4,6-Tribromophenol	*60.1*		*11.2-130*		*11/25/2015 09:18*	WG831155
(S) p-Terphenyl-d14	*79.0*		*29.3-137*		*11/25/2015 09:18*	WG831155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/29/2015 17:11	WG832075
(S) Toluene-d8	*106*		*70.0-130*		*11/29/2015 17:11*	WG832075

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		250	1	11/27/2015 17:37	WG831937

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	1630		100	1	11/20/2015 21:54	WG830551
Sulfate	8810		5000	1	11/20/2015 21:54	WG830551

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/21/2015 16:45	WG830593

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/27/2015 13:08	WG831407
Arsenic	ND		2.00	1	11/27/2015 13:08	WG831407
Beryllium	ND		2.00	1	11/27/2015 13:08	WG831407
Cadmium	ND		1.00	1	11/27/2015 13:08	WG831407
Chromium	2.06		2.00	1	11/27/2015 13:08	WG831407
Copper	ND		5.00	1	11/27/2015 13:08	WG831407
Iron	ND		100	1	11/27/2015 13:08	WG831407
Lead	ND		2.00	1	11/27/2015 13:08	WG831407
Manganese	20.4		5.00	1	11/27/2015 13:08	WG831407
Nickel	ND		2.00	1	11/27/2015 13:08	WG831407
Selenium	ND		2.00	1	11/27/2015 13:08	WG831407
Silver	ND		2.00	1	11/27/2015 13:08	WG831407
Thallium	ND		2.00	1	11/27/2015 13:08	WG831407
Zinc	ND		25.0	1	11/27/2015 13:08	WG831407

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/24/2015 09:24	WG830955
Acrolein	ND		50.0	1	11/24/2015 09:24	WG830955
Acrylonitrile	ND		10.0	1	11/24/2015 09:24	WG830955
Benzene	ND		1.00	1	11/24/2015 09:24	WG830955
Bromobenzene	ND		1.00	1	11/24/2015 09:24	WG830955
Bromodichloromethane	ND		1.00	1	11/24/2015 09:24	WG830955
Bromoform	ND		1.00	1	11/24/2015 09:24	WG830955
Bromomethane	ND		5.00	1	11/24/2015 09:24	WG830955
n-Butylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
sec-Butylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
tert-Butylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
Carbon tetrachloride	ND		1.00	1	11/24/2015 09:24	WG830955
Chlorobenzene	ND		1.00	1	11/24/2015 09:24	WG830955
Chlorodibromomethane	ND		1.00	1	11/24/2015 09:24	WG830955
Chloroethane	ND		5.00	1	11/24/2015 09:24	WG830955
2-Chloroethyl vinyl ether	ND	J4	50.0	1	11/24/2015 09:24	WG830955
Chloroform	ND		5.00	1	11/24/2015 09:24	WG830955
Chloromethane	ND		2.50	1	11/24/2015 09:24	WG830955
2-Chlorotoluene	ND		1.00	1	11/24/2015 09:24	WG830955
4-Chlorotoluene	ND		1.00	1	11/24/2015 09:24	WG830955

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/24/2015 09:24	WG830955
1,2-Dibromoethane	ND		1.00	1	11/24/2015 09:24	WG830955
Dibromomethane	ND		1.00	1	11/24/2015 09:24	WG830955
1,2-Dichlorobenzene	ND		1.00	1	11/24/2015 09:24	WG830955
1,3-Dichlorobenzene	ND		1.00	1	11/24/2015 09:24	WG830955
1,4-Dichlorobenzene	ND		1.00	1	11/24/2015 09:24	WG830955
Dichlorodifluoromethane	ND		5.00	1	11/24/2015 09:24	WG830955
1,1-Dichloroethane	ND		1.00	1	11/24/2015 09:24	WG830955
1,2-Dichloroethane	ND		1.00	1	11/24/2015 09:24	WG830955
1,1-Dichloroethene	ND		1.00	1	11/24/2015 09:24	WG830955
cis-1,2-Dichloroethene	ND		1.00	1	11/24/2015 09:24	WG830955
trans-1,2-Dichloroethene	ND		1.00	1	11/24/2015 09:24	WG830955
1,2-Dichloropropane	ND		1.00	1	11/24/2015 09:24	WG830955
1,1-Dichloropropene	ND		1.00	1	11/24/2015 09:24	WG830955
1,3-Dichloropropane	ND		1.00	1	11/24/2015 09:24	WG830955
cis-1,3-Dichloropropene	ND		1.00	1	11/24/2015 09:24	WG830955
trans-1,3-Dichloropropene	ND		1.00	1	11/24/2015 09:24	WG830955
2,2-Dichloropropane	ND		1.00	1	11/24/2015 09:24	WG830955
Di-isopropyl ether	ND		1.00	1	11/24/2015 09:24	WG830955
Ethylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
Hexachloro-1,3-butadiene	ND		1.00	1	11/24/2015 09:24	WG830955
Isopropylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
p-Isopropyltoluene	ND		1.00	1	11/24/2015 09:24	WG830955
2-Butanone (MEK)	ND		10.0	1	11/24/2015 09:24	WG830955
Methylene Chloride	ND		5.00	1	11/24/2015 09:24	WG830955
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/24/2015 09:24	WG830955
Methyl tert-butyl ether	ND		1.00	1	11/24/2015 09:24	WG830955
Naphthalene	ND		5.00	1	11/24/2015 09:24	WG830955
n-Propylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
Styrene	ND		1.00	1	11/24/2015 09:24	WG830955
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/24/2015 09:24	WG830955
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/24/2015 09:24	WG830955
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/24/2015 09:24	WG830955
Tetrachloroethene	ND		1.00	1	11/24/2015 09:24	WG830955
Toluene	ND		5.00	1	11/24/2015 09:24	WG830955
1,2,3-Trichlorobenzene	ND		1.00	1	11/24/2015 09:24	WG830955
1,2,4-Trichlorobenzene	ND		1.00	1	11/24/2015 09:24	WG830955
1,1,1-Trichloroethane	ND		1.00	1	11/24/2015 09:24	WG830955
1,1,2-Trichloroethane	ND		1.00	1	11/24/2015 09:24	WG830955
Trichloroethene	ND		1.00	1	11/24/2015 09:24	WG830955
Trichlorofluoromethane	ND		5.00	1	11/24/2015 09:24	WG830955
1,2,3-Trichloropropane	ND		2.50	1	11/24/2015 09:24	WG830955
1,2,4-Trimethylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
1,2,3-Trimethylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
1,3,5-Trimethylbenzene	ND		1.00	1	11/24/2015 09:24	WG830955
Vinyl chloride	ND		1.00	1	11/24/2015 09:24	WG830955
Xylenes, Total	ND		3.00	1	11/24/2015 09:24	WG830955
(S) Toluene-d8	*102*		*90.0-115*		*11/24/2015 09:24*	WG830955
(S) Dibromofluoromethane	*100*		*79.0-121*		*11/24/2015 09:24*	WG830955
(S) 4-Bromofluorobenzene	*92.6*		*80.1-120*		*11/24/2015 09:24*	WG830955

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/25/2015 09:42	WG831155
Acenaphthylene	ND		1.00	1	11/25/2015 09:42	WG831155
Anthracene	ND		1.00	1	11/25/2015 09:42	WG831155
Benzidine	ND		10.0	1	11/25/2015 09:42	WG831155
Benzo(a)anthracene	ND		1.00	1	11/25/2015 09:42	WG831155
Benzo(b)fluoranthene	ND		1.00	1	11/25/2015 09:42	WG831155
Benzo(k)fluoranthene	ND		1.00	1	11/25/2015 09:42	WG831155
Benzo(g,h,i)perylene	ND		1.00	1	11/25/2015 09:42	WG831155
Benzo(a)pyrene	ND		1.00	1	11/25/2015 09:42	WG831155
Bis(2-chlorethoxy)methane	ND		10.0	1	11/25/2015 09:42	WG831155
Bis(2-chloroethyl)ether	ND		10.0	1	11/25/2015 09:42	WG831155
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/25/2015 09:42	WG831155
4-Bromophenyl-phenylether	ND		10.0	1	11/25/2015 09:42	WG831155
2-Chloronaphthalene	ND		1.00	1	11/25/2015 09:42	WG831155
4-Chlorophenyl-phenylether	ND		10.0	1	11/25/2015 09:42	WG831155
Chrysene	ND		1.00	1	11/25/2015 09:42	WG831155
Dibenz(a,h)anthracene	ND		1.00	1	11/25/2015 09:42	WG831155
3,3-Dichlorobenzidine	ND		10.0	1	11/25/2015 09:42	WG831155
2,4-Dinitrotoluene	ND		10.0	1	11/25/2015 09:42	WG831155
2,6-Dinitrotoluene	ND		10.0	1	11/25/2015 09:42	WG831155
Fluoranthene	ND		1.00	1	11/25/2015 09:42	WG831155
Fluorene	ND		1.00	1	11/25/2015 09:42	WG831155
Hexachlorobenzene	ND		1.00	1	11/25/2015 09:42	WG831155
Hexachloro-1,3-butadiene	ND		10.0	1	11/25/2015 09:42	WG831155
Hexachlorocyclopentadiene	ND		10.0	1	11/25/2015 09:42	WG831155
Hexachloroethane	ND		10.0	1	11/25/2015 09:42	WG831155
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/25/2015 09:42	WG831155
Isophorone	ND		10.0	1	11/25/2015 09:42	WG831155
Naphthalene	ND		1.00	1	11/25/2015 09:42	WG831155
Nitrobenzene	ND		10.0	1	11/25/2015 09:42	WG831155
n-Nitrosodimethylamine	ND	J3	10.0	1	11/25/2015 09:42	WG831155
n-Nitrosodiphenylamine	ND		10.0	1	11/25/2015 09:42	WG831155
n-Nitrosodi-n-propylamine	ND	J3 J4	10.0	1	11/25/2015 09:42	WG831155
Phenanthrene	ND		1.00	1	11/25/2015 09:42	WG831155
Benzylbutyl phthalate	ND		3.00	1	11/25/2015 09:42	WG831155
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/25/2015 09:42	WG831155
Di-n-butyl phthalate	ND		3.00	1	11/25/2015 09:42	WG831155
Diethyl phthalate	ND		3.00	1	11/25/2015 09:42	WG831155
Dimethyl phthalate	ND		3.00	1	11/25/2015 09:42	WG831155
Di-n-octyl phthalate	ND		3.00	1	11/25/2015 09:42	WG831155
Pyrene	ND		1.00	1	11/25/2015 09:42	WG831155
1,2,4-Trichlorobenzene	ND		10.0	1	11/25/2015 09:42	WG831155
4-Chloro-3-methylphenol	ND		10.0	1	11/25/2015 09:42	WG831155
2-Chlorophenol	ND		10.0	1	11/25/2015 09:42	WG831155
2,4-Dichlorophenol	ND		10.0	1	11/25/2015 09:42	WG831155
2,4-Dimethylphenol	ND		10.0	1	11/25/2015 09:42	WG831155
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/25/2015 09:42	WG831155
2,4-Dinitrophenol	ND		10.0	1	11/25/2015 09:42	WG831155
2-Nitrophenol	ND		10.0	1	11/25/2015 09:42	WG831155
4-Nitrophenol	ND		10.0	1	11/25/2015 09:42	WG831155
Pentachlorophenol	ND		10.0	1	11/25/2015 09:42	WG831155
Phenol	ND		10.0	1	11/25/2015 09:42	WG831155
2,4,6-Trichlorophenol	ND		10.0	1	11/25/2015 09:42	WG831155
(S) 2-Fluorophenol	*47.1*		*10.0-77.9*		*11/25/2015 09:42*	WG831155
(S) Phenol-d5	*31.8*		*5.00-70.1*		*11/25/2015 09:42*	WG831155
(S) Nitrobenzene-d5	*70.3*		*21.8-123*		*11/25/2015 09:42*	WG831155

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*70.7*		*29.5-131*		*11/25/2015 09:42*	WG831155
(S) 2,4,6-Tribromophenol	*62.6*		*11.2-130*		*11/25/2015 09:42*	WG831155
(S) p-Terphenyl-d14	*77.4*		*29.3-137*		*11/25/2015 09:42*	WG831155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/29/2015 17:31	WG832075
(S) Toluene-d8	*106*		*70.0-130*		*11/29/2015 17:31*	WG832075

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/24/2015 08:31	WG830955
Acrolein	ND		50.0	1	11/24/2015 08:31	WG830955
Acrylonitrile	ND		10.0	1	11/24/2015 08:31	WG830955
Benzene	ND		1.00	1	11/24/2015 08:31	WG830955
Bromobenzene	ND		1.00	1	11/24/2015 08:31	WG830955
Bromodichloromethane	ND		1.00	1	11/24/2015 08:31	WG830955
Bromoform	ND		1.00	1	11/24/2015 08:31	WG830955
Bromomethane	ND		5.00	1	11/24/2015 08:31	WG830955
n-Butylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
sec-Butylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
tert-Butylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
Carbon tetrachloride	ND		1.00	1	11/24/2015 08:31	WG830955
Chlorobenzene	ND		1.00	1	11/24/2015 08:31	WG830955
Chlorodibromomethane	ND		1.00	1	11/24/2015 08:31	WG830955
Chloroethane	ND		5.00	1	11/24/2015 08:31	WG830955
2-Chloroethyl vinyl ether	ND	J3 J4	50.0	1	11/24/2015 08:31	WG830955
Chloroform	ND		5.00	1	11/24/2015 08:31	WG830955
Chloromethane	ND		2.50	1	11/24/2015 08:31	WG830955
2-Chlorotoluene	ND		1.00	1	11/24/2015 08:31	WG830955
4-Chlorotoluene	ND		1.00	1	11/24/2015 08:31	WG830955
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/24/2015 08:31	WG830955
1,2-Dibromoethane	ND		1.00	1	11/24/2015 08:31	WG830955
Dibromomethane	ND		1.00	1	11/24/2015 08:31	WG830955
1,2-Dichlorobenzene	ND		1.00	1	11/24/2015 08:31	WG830955
1,3-Dichlorobenzene	ND		1.00	1	11/24/2015 08:31	WG830955
1,4-Dichlorobenzene	ND		1.00	1	11/24/2015 08:31	WG830955
Dichlorodifluoromethane	ND		5.00	1	11/24/2015 08:31	WG830955
1,1-Dichloroethane	ND		1.00	1	11/24/2015 08:31	WG830955
1,2-Dichloroethane	ND		1.00	1	11/24/2015 08:31	WG830955
1,1-Dichloroethene	ND		1.00	1	11/24/2015 08:31	WG830955
cis-1,2-Dichloroethene	ND		1.00	1	11/24/2015 08:31	WG830955
trans-1,2-Dichloroethene	ND		1.00	1	11/24/2015 08:31	WG830955
1,2-Dichloropropane	ND		1.00	1	11/24/2015 08:31	WG830955
1,1-Dichloropropene	ND		1.00	1	11/24/2015 08:31	WG830955
1,3-Dichloropropane	ND		1.00	1	11/24/2015 08:31	WG830955
cis-1,3-Dichloropropene	ND		1.00	1	11/24/2015 08:31	WG830955
trans-1,3-Dichloropropene	ND		1.00	1	11/24/2015 08:31	WG830955
2,2-Dichloropropane	ND		1.00	1	11/24/2015 08:31	WG830955
Di-isopropyl ether	ND		1.00	1	11/24/2015 08:31	WG830955
Ethylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
Hexachloro-1,3-butadiene	ND		1.00	1	11/24/2015 08:31	WG830955
Isopropylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
p-Isopropyltoluene	ND		1.00	1	11/24/2015 08:31	WG830955
2-Butanone (MEK)	ND		10.0	1	11/24/2015 08:31	WG830955
Methylene Chloride	ND		5.00	1	11/24/2015 08:31	WG830955
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/24/2015 08:31	WG830955
Methyl tert-butyl ether	ND		1.00	1	11/24/2015 08:31	WG830955
Naphthalene	ND		5.00	1	11/24/2015 08:31	WG830955
n-Propylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
Styrene	ND		1.00	1	11/24/2015 08:31	WG830955
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/24/2015 08:31	WG830955
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/24/2015 08:31	WG830955
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/24/2015 08:31	WG830955
Tetrachloroethene	ND		1.00	1	11/24/2015 08:31	WG830955
Toluene	ND		5.00	1	11/24/2015 08:31	WG830955
1,2,3-Trichlorobenzene	ND		1.00	1	11/24/2015 08:31	WG830955

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	11/24/2015 08:31	WG830955
1,1,1-Trichloroethane	ND		1.00	1	11/24/2015 08:31	WG830955
1,1,2-Trichloroethane	ND		1.00	1	11/24/2015 08:31	WG830955
Trichloroethene	ND		1.00	1	11/24/2015 08:31	WG830955
Trichlorofluoromethane	ND		5.00	1	11/24/2015 08:31	WG830955
1,2,3-Trichloropropane	ND		2.50	1	11/24/2015 08:31	WG830955
1,2,4-Trimethylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
1,2,3-Trimethylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
1,3,5-Trimethylbenzene	ND		1.00	1	11/24/2015 08:31	WG830955
Vinyl chloride	ND		1.00	1	11/24/2015 08:31	WG830955
Xylenes, Total	ND		3.00	1	11/24/2015 08:31	WG830955
(S) Toluene-d8	*101*		*90.0-115*		*11/24/2015 08:31*	WG830955
(S) Dibromofluoromethane	*103*		*79.0-121*		*11/24/2015 08:31*	WG830955
(S) 4-Bromofluorobenzene	*94.4*		*80.1-120*		*11/24/2015 08:31*	WG830955

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		250	1	11/27/2015 17:39	WG831937

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate	3310		100	1	11/24/2015 16:23	WG831343
Sulfate	92800		5000	1	11/24/2015 16:23	WG831343

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/25/2015 07:48	WG831326

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/27/2015 13:10	WG831407
Arsenic	ND		2.00	1	11/27/2015 13:10	WG831407
Beryllium	ND		2.00	1	11/27/2015 13:10	WG831407
Cadmium	ND		1.00	1	11/27/2015 13:10	WG831407
Chromium	ND		2.00	1	11/27/2015 13:10	WG831407
Copper	ND		5.00	1	11/27/2015 13:10	WG831407
Iron	ND		100	1	11/27/2015 13:10	WG831407
Lead	ND		2.00	1	11/27/2015 13:10	WG831407
Manganese	ND		5.00	1	11/27/2015 13:10	WG831407
Nickel	ND		2.00	1	11/27/2015 13:10	WG831407
Selenium	3.46		2.00	1	11/27/2015 13:10	WG831407
Silver	ND		2.00	1	11/27/2015 13:10	WG831407
Thallium	ND		2.00	1	11/27/2015 13:10	WG831407
Zinc	ND		25.0	1	11/27/2015 13:10	WG831407

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/25/2015 19:33	WG831700
Acrolein	ND		50.0	1	11/25/2015 19:33	WG831700
Acrylonitrile	ND		10.0	1	11/25/2015 19:33	WG831700
Benzene	ND		1.00	1	11/25/2015 19:33	WG831700
Bromobenzene	ND		1.00	1	11/25/2015 19:33	WG831700
Bromodichloromethane	ND		1.00	1	11/25/2015 19:33	WG831700
Bromoform	ND		1.00	1	11/25/2015 19:33	WG831700
Bromomethane	ND		5.00	1	11/25/2015 19:33	WG831700
n-Butylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
sec-Butylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
tert-Butylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
Carbon tetrachloride	ND		1.00	1	11/25/2015 19:33	WG831700
Chlorobenzene	ND		1.00	1	11/25/2015 19:33	WG831700
Chlorodibromomethane	ND		1.00	1	11/25/2015 19:33	WG831700
Chloroethane	ND		5.00	1	11/25/2015 19:33	WG831700
2-Chloroethyl vinyl ether	ND		50.0	1	11/25/2015 19:33	WG831700
Chloroform	ND		5.00	1	11/25/2015 19:33	WG831700
Chloromethane	ND		2.50	1	11/25/2015 19:33	WG831700
2-Chlorotoluene	ND		1.00	1	11/25/2015 19:33	WG831700
4-Chlorotoluene	ND		1.00	1	11/25/2015 19:33	WG831700

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/25/2015 19:33	WG831700
1,2-Dibromoethane	ND		1.00	1	11/25/2015 19:33	WG831700
Dibromomethane	ND		1.00	1	11/25/2015 19:33	WG831700
1,2-Dichlorobenzene	ND		1.00	1	11/25/2015 19:33	WG831700
1,3-Dichlorobenzene	ND		1.00	1	11/25/2015 19:33	WG831700
1,4-Dichlorobenzene	ND		1.00	1	11/25/2015 19:33	WG831700
Dichlorodifluoromethane	ND		5.00	1	11/25/2015 19:33	WG831700
1,1-Dichloroethane	ND		1.00	1	11/25/2015 19:33	WG831700
1,2-Dichloroethane	ND		1.00	1	11/25/2015 19:33	WG831700
1,1-Dichloroethene	ND		1.00	1	11/25/2015 19:33	WG831700
cis-1,2-Dichloroethene	ND		1.00	1	11/25/2015 19:33	WG831700
trans-1,2-Dichloroethene	ND		1.00	1	11/25/2015 19:33	WG831700
1,2-Dichloropropane	ND		1.00	1	11/25/2015 19:33	WG831700
1,1-Dichloropropene	ND		1.00	1	11/25/2015 19:33	WG831700
1,3-Dichloropropane	ND		1.00	1	11/25/2015 19:33	WG831700
cis-1,3-Dichloropropene	ND		1.00	1	11/25/2015 19:33	WG831700
trans-1,3-Dichloropropene	ND		1.00	1	11/25/2015 19:33	WG831700
2,2-Dichloropropane	ND		1.00	1	11/25/2015 19:33	WG831700
Di-isopropyl ether	ND		1.00	1	11/25/2015 19:33	WG831700
Ethylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
Hexachloro-1,3-butadiene	ND		1.00	1	11/25/2015 19:33	WG831700
Isopropylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
p-Isopropyltoluene	ND		1.00	1	11/25/2015 19:33	WG831700
2-Butanone (MEK)	ND		10.0	1	11/25/2015 19:33	WG831700
Methylene Chloride	ND		5.00	1	11/25/2015 19:33	WG831700
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/25/2015 19:33	WG831700
Methyl tert-butyl ether	ND		1.00	1	11/25/2015 19:33	WG831700
Naphthalene	ND		5.00	1	11/25/2015 19:33	WG831700
n-Propylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
Styrene	ND		1.00	1	11/25/2015 19:33	WG831700
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/25/2015 19:33	WG831700
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/25/2015 19:33	WG831700
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/25/2015 19:33	WG831700
Tetrachloroethene	ND		1.00	1	11/25/2015 19:33	WG831700
Toluene	ND		5.00	1	11/25/2015 19:33	WG831700
1,2,3-Trichlorobenzene	ND		1.00	1	11/25/2015 19:33	WG831700
1,2,4-Trichlorobenzene	ND		1.00	1	11/25/2015 19:33	WG831700
1,1,1-Trichloroethane	ND		1.00	1	11/25/2015 19:33	WG831700
1,1,2-Trichloroethane	ND		1.00	1	11/25/2015 19:33	WG831700
Trichloroethene	ND		1.00	1	11/25/2015 19:33	WG831700
Trichlorofluoromethane	ND		5.00	1	11/25/2015 19:33	WG831700
1,2,3-Trichloropropane	ND		2.50	1	11/25/2015 19:33	WG831700
1,2,4-Trimethylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
1,2,3-Trimethylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
1,3,5-Trimethylbenzene	ND		1.00	1	11/25/2015 19:33	WG831700
Vinyl chloride	ND		1.00	1	11/25/2015 19:33	WG831700
Xylenes, Total	ND		3.00	1	11/25/2015 19:33	WG831700
(S) Toluene-d8	*101*		*90.0-115*		*11/25/2015 19:33*	WG831700
(S) Dibromofluoromethane	*99.7*		*79.0-121*		*11/25/2015 19:33*	WG831700
(S) 4-Bromofluorobenzene	*104*		*80.1-120*		*11/25/2015 19:33*	WG831700

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/25/2015 15:55	WG831669
Acenaphthylene	ND		1.00	1	11/25/2015 15:55	WG831669
Anthracene	ND		1.00	1	11/25/2015 15:55	WG831669
Benzidine	ND		10.0	1	11/25/2015 15:55	WG831669
Benzo(a)anthracene	ND		1.00	1	11/25/2015 15:55	WG831669
Benzo(b)fluoranthene	ND		1.00	1	11/25/2015 15:55	WG831669
Benzo(k)fluoranthene	ND		1.00	1	11/25/2015 15:55	WG831669
Benzo(g,h,i)perylene	ND		1.00	1	11/25/2015 15:55	WG831669
Benzo(a)pyrene	ND		1.00	1	11/25/2015 15:55	WG831669
Bis(2-chlorethoxy)methane	ND		10.0	1	11/25/2015 15:55	WG831669
Bis(2-chloroethyl)ether	ND		10.0	1	11/25/2015 15:55	WG831669
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/25/2015 15:55	WG831669
4-Bromophenyl-phenylether	ND		10.0	1	11/25/2015 15:55	WG831669
2-Chloronaphthalene	ND		1.00	1	11/25/2015 15:55	WG831669
4-Chlorophenyl-phenylether	ND		10.0	1	11/25/2015 15:55	WG831669
Chrysene	ND		1.00	1	11/25/2015 15:55	WG831669
Dibenz(a,h)anthracene	ND		1.00	1	11/25/2015 15:55	WG831669
3,3-Dichlorobenzidine	ND		10.0	1	11/25/2015 15:55	WG831669
2,4-Dinitrotoluene	ND		10.0	1	11/25/2015 15:55	WG831669
2,6-Dinitrotoluene	ND		10.0	1	11/25/2015 15:55	WG831669
Fluoranthene	ND		1.00	1	11/25/2015 15:55	WG831669
Fluorene	ND		1.00	1	11/25/2015 15:55	WG831669
Hexachlorobenzene	ND		1.00	1	11/25/2015 15:55	WG831669
Hexachloro-1,3-butadiene	ND		10.0	1	11/25/2015 15:55	WG831669
Hexachlorocyclopentadiene	ND		10.0	1	11/25/2015 15:55	WG831669
Hexachloroethane	ND		10.0	1	11/25/2015 15:55	WG831669
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/25/2015 15:55	WG831669
Isophorone	ND		10.0	1	11/25/2015 15:55	WG831669
Naphthalene	ND		1.00	1	11/25/2015 15:55	WG831669
Nitrobenzene	ND		10.0	1	11/25/2015 15:55	WG831669
n-Nitrosodimethylamine	ND		10.0	1	11/25/2015 15:55	WG831669
n-Nitrosodiphenylamine	ND		10.0	1	11/25/2015 15:55	WG831669
n-Nitrosodi-n-propylamine	ND		10.0	1	11/25/2015 15:55	WG831669
Phenanthrene	ND		1.00	1	11/25/2015 15:55	WG831669
Benzylbutyl phthalate	ND		3.00	1	11/25/2015 15:55	WG831669
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/25/2015 15:55	WG831669
Di-n-butyl phthalate	ND		3.00	1	11/25/2015 15:55	WG831669
Diethyl phthalate	ND		3.00	1	11/25/2015 15:55	WG831669
Dimethyl phthalate	ND		3.00	1	11/25/2015 15:55	WG831669
Di-n-octyl phthalate	ND		3.00	1	11/25/2015 15:55	WG831669
Pyrene	ND		1.00	1	11/25/2015 15:55	WG831669
1,2,4-Trichlorobenzene	ND		10.0	1	11/25/2015 15:55	WG831669
4-Chloro-3-methylphenol	ND		10.0	1	11/25/2015 15:55	WG831669
2-Chlorophenol	ND		10.0	1	11/25/2015 15:55	WG831669
2,4-Dichlorophenol	ND		10.0	1	11/25/2015 15:55	WG831669
2,4-Dimethylphenol	ND		10.0	1	11/25/2015 15:55	WG831669
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/25/2015 15:55	WG831669
2,4-Dinitrophenol	ND	J3	10.0	1	11/25/2015 15:55	WG831669
2-Nitrophenol	ND		10.0	1	11/25/2015 15:55	WG831669
4-Nitrophenol	ND		10.0	1	11/25/2015 15:55	WG831669
Pentachlorophenol	ND		10.0	1	11/25/2015 15:55	WG831669
Phenol	ND		10.0	1	11/25/2015 15:55	WG831669
2,4,6-Trichlorophenol	ND		10.0	1	11/25/2015 15:55	WG831669
(S) 2-Fluorophenol	*53.8*		*10.0-77.9*		*11/25/2015 15:55*	WG831669
(S) Phenol-d5	*39.7*		*5.00-70.1*		*11/25/2015 15:55*	WG831669
(S) Nitrobenzene-d5	*63.4*		*21.8-123*		*11/25/2015 15:55*	WG831669

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*70.4*		*29.5-131*		*11/25/2015 15:55*	WG831669
(S) 2,4,6-Tribromophenol	*73.7*		*11.2-130*		*11/25/2015 15:55*	WG831669
(S) p-Terphenyl-d14	*72.5*		*29.3-137*		*11/25/2015 15:55*	WG831669

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	11/29/2015 17:51	WG832075
(S) Toluene-d8	*106*		*70.0-130*		*11/29/2015 17:51*	WG832075

Method Blank (MB)

(MB) 11/27/15 16:39

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Ammonia Nitrogen	ND		0.250

L802287-07 Original Sample (OS) • Duplicate (DUP)

(OS) 11/27/15 17:02 • (DUP) 11/27/15 17:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	-0.0240	1	0		20

L802294-16 Original Sample (OS) • Duplicate (DUP)

(OS) 11/27/15 17:39 • (DUP) 11/27/15 17:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	-0.0190	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/27/15 16:44 • (LCSD) 11/27/15 16:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	7.50	8.11	7.40	108	99	90-110			9	20

L802294-03 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/27/15 17:09 • (MS) 11/27/15 17:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	10.0	ND	11.0	110	1	90-110	

L802294-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/27/15 17:29 • (MS) 11/27/15 17:32 • (MSD) 11/27/15 17:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	10.0	ND	10.5	10.5	105	105	1	90-110			0	20

Method Blank (MB)

(MB) 11/20/15 19:35

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Nitrate	ND		0.100
Sulfate	ND		5.00

L802026-01 Original Sample (OS) • Duplicate (DUP)

(OS) 11/20/15 20:52 • (DUP) 11/20/15 21:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.00360	0.00320	1	0		20
Sulfate	2.72	2.71	1	0		20

L802294-03 Original Sample (OS) • Duplicate (DUP)

(OS) 11/21/15 03:17 • (DUP) 11/21/15 03:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.299	0.296	1	1		20
Sulfate	3.86	3.86	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/20/15 19:50 • (LCSD) 11/20/15 20:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate	8.00	8.01	8.01	100	100	90-110			0	20
Sulfate	40.0	39.8	39.8	99	99	90-110			0	20

L802253-01 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/20/15 21:23 • (MS) 11/20/15 21:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5.00	ND	4.75	95	1	80-120	
Sulfate	50.0	24.4	71.6	94	1	80-120	

L802294-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/21/15 02:31 • (MS) 11/21/15 02:46 • (MSD) 11/21/15 03:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	5.00	ND	5.16	5.16	103	103	1	80-120			0	20
Sulfate	50.0	4.55	56.4	56.4	104	104	1	80-120			0	20

Method Blank (MB)

(MB) 11/20/15 19:44

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Nitrate	ND		0.100
Sulfate	ND		5.00

L802295-02 Original Sample (OS) • Duplicate (DUP)

(OS) 11/20/15 22:23 • (DUP) 11/20/15 22:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	1.34	1.39	1	4		20
Sulfate	57.9	58.0	1	0		20

L802299-04 Original Sample (OS) • Duplicate (DUP)

(OS) 11/21/15 01:01 • (DUP) 11/21/15 01:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	2.43	2.46	1	1		20
Sulfate	50.2	50.6	1	1		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/20/15 19:59 • (LCSD) 11/20/15 20:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate	8.00	8.16	8.16	102	102	90-110			0	20
Sulfate	40.0	40.4	40.3	101	101	90-110			0	20

L802295-03 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/20/15 22:52 • (MS) 11/20/15 23:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5.00	1.30	6.19	98	1	80-120	
Sulfate	50.0	57.8	99.5	83	1	80-120	

L802299-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/21/15 01:30 • (MS) 11/21/15 01:45 • (MSD) 11/21/15 01:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	5.00	0.357	5.29	5.34	99	100	1	80-120			1	20
Sulfate	50.0	47.1	90.9	91.0	88	88	1	80-120			0	20

Method Blank (MB)

(MB) 11/24/15 07:29

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Nitrate	ND		0.100
Sulfate	ND		5.00

L802926-02 Original Sample (OS) • Duplicate (DUP)

(OS) 11/24/15 13:03 • (DUP) 11/24/15 13:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	37.4	38.2	10	2		20
Sulfate	22.8	23.3	10	0		20

L802976-11 Original Sample (OS) • Duplicate (DUP)

(OS) 11/24/15 20:14 • (DUP) 11/24/15 20:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	ND	0.000	1	0		20

L802976-11 Original Sample (OS) • Duplicate (DUP)

(OS) 11/25/15 11:39 • (DUP) 11/25/15 11:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	300	297	10	1		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/24/15 07:45 • (LCSD) 11/24/15 08:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate	8.00	8.20	8.31	102	104	90-110			1	20
Sulfate	40.0	39.8	40.3	99	101	90-110			1	20

L802957-01 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/24/15 14:51 • (MS) 11/24/15 15:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5.00	0.589	5.76	103	1	80-120	
Sulfate	50.0	10.7	59.1	97	1	80-120	

L802976-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/24/15 19:28 • (MS) 11/24/15 19:43 • (MSD) 11/24/15 19:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	5.00	ND	4.77	4.74	95	95	1	80-120			1	20

L802976-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/25/15 10:53 • (MS) 11/25/15 11:08 • (MSD) 11/25/15 11:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	5.00	109	589	602	96	99	10	80-120			2	20

Method Blank (MB)

(MB) 11/25/15 07:18

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Sulfate	ND		5.00

L802342-01 Original Sample (OS) • Duplicate (DUP)

(OS) 11/25/15 18:18 • (DUP) 11/25/15 18:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	89.3	89.2	10	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 07:34 • (LCSD) 11/25/15 07:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Sulfate	40.0	40.6	40.4	101	101	90-110			1	20

L802066-01 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/25/15 14:42 • (MS) 11/25/15 14:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	5.00	200	703	101	10	80-120	

L802341-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/25/15 17:32 • (MS) 11/25/15 17:47 • (MSD) 11/25/15 18:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	5.00	490	980	980	98	98	10	80-120			0	20

Method Blank (MB)

(MB) 11/21/15 16:07

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Mercury	ND		0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/21/15 16:09 • (LCSD) 11/21/15 16:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00250	0.00295	83	98	80-120			17	20

L802300-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/21/15 16:14 • (MS) 11/21/15 16:17 • (MSD) 11/21/15 16:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00254	0.00236	85	79	1	75-125			7	20

Method Blank (MB)

(MB) 11/25/15 07:33

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Mercury	ND		0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 07:36 • (LCSD) 11/25/15 07:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00289	0.00295	96	98	80-120			2	20

L802898-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/25/15 07:41 • (MS) 11/25/15 07:43 • (MSD) 11/25/15 07:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.0000483	0.00283	0.00300	93	98	1	75-125			6	20

Method Blank (MB)

(MB) 11/27/15 10:41

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Antimony	ND		0.00200
Arsenic	ND		0.00200
Beryllium	ND		0.00200
Cadmium	ND		0.00100
Chromium	ND		0.00200
Copper	ND		0.00500
Iron	ND		0.100
Lead	ND		0.00200
Manganese	ND		0.00500
Nickel	ND		0.00200
Selenium	ND		0.00200
Silver	ND		0.00200
Thallium	ND		0.00200
Zinc	ND		0.0250

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/27/15 10:43 • (LCSD) 11/27/15 10:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	0.0500	0.0498	100	100	80-120			0	20
Arsenic	0.0500	0.0446	0.0464	89	93	80-120			4	20
Beryllium	0.0500	0.0483	0.0504	97	101	80-120			4	20
Cadmium	0.0500	0.0460	0.0474	92	95	80-120			3	20
Chromium	0.0500	0.0466	0.0468	93	94	80-120			1	20
Copper	0.0500	0.0493	0.0494	99	99	80-120			0	20
Iron	5.00	4.39	4.40	88	88	80-120			0	20
Lead	0.0500	0.0455	0.0467	91	93	80-120			3	20
Manganese	0.0500	0.0429	0.0436	86	87	80-120			2	20
Nickel	0.0500	0.0473	0.0477	95	95	80-120			1	20
Selenium	0.0500	0.0451	0.0468	90	94	80-120			4	20
Silver	0.0500	0.0464	0.0475	93	95	80-120			2	20
Thallium	0.0500	0.0452	0.0468	90	94	80-120			3	20
Zinc	0.0500	0.0419	0.0411	84	82	80-120			2	20

L802480-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/27/15 10:48 • (MS) 11/27/15 10:53 • (MSD) 11/27/15 10:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	0.000298	0.0503	0.0510	100	101	1	75-125			1	20
Arsenic	0.0500	0.00185	0.0507	0.0504	98	97	1	75-125			1	20
Beryllium	0.0500	0.0000224	0.0488	0.0513	98	102	1	75-125			5	20
Cadmium	0.0500	0.00000692	0.0511	0.0511	102	102	1	75-125			0	20
Chromium	0.0500	0.00297	0.0475	0.0484	89	91	1	75-125			2	20
Copper	0.0500	0.000476	0.0480	0.0483	95	96	1	75-125			1	20
Iron	5.00	ND	4.35	4.44	87	89	1	75-125			2	20
Lead	0.0500	ND	0.0459	0.0473	92	95	1	75-125			3	20
Manganese	0.0500	0.000186	0.0433	0.0439	86	87	1	75-125			1	20
Nickel	0.0500	0.000324	0.0472	0.0482	94	96	1	75-125			2	20
Selenium	0.0500	0.000663	0.0480	0.0483	95	95	1	75-125			1	20
Silver	0.0500	0.000161	0.0474	0.0481	94	96	1	75-125			1	20
Thallium	0.0500	0.0000368	0.0455	0.0473	91	94	1	75-125			4	20
Zinc	0.0500	ND	0.0407	0.0412	81	82	1	75-125			1	20

Method Blank (MB)

(MB) 11/26/15 23:53

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Acrolein	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 11/26/15 23:53

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
trans-1,3-Dichloropropene	ND		0.00100
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*106*		*90.0-115*
(S) Dibromofluoromethane	*99.9*		*79.0-121*
(S) 4-Bromofluorobenzene	*99.1*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/26/15 21:52 • (LCSD) 11/26/15 22:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.124	0.123	99.2	98.4	28.7-175			0.780	20.9
Acrolein	0.125	0.129	0.133	103	106	40.4-172			3.33	20
Acrylonitrile	0.125	0.118	0.121	94.3	96.7	58.2-145			2.49	20
Benzene	0.0250	0.0226	0.0233	90.3	93.0	73.0-122			3.01	20
Bromobenzene	0.0250	0.0230	0.0236	92.1	94.5	81.5-115			2.63	20
Bromodichloromethane	0.0250	0.0236	0.0228	94.6	91.2	75.5-121			3.62	20
Bromoform	0.0250	0.0245	0.0246	97.9	98.6	71.5-131			0.750	20
Bromomethane	0.0250	0.0244	0.0252	97.6	101	22.4-187			3.38	20
n-Butylbenzene	0.0250	0.0235	0.0220	93.9	88.0	75.9-134			6.52	20
sec-Butylbenzene	0.0250	0.0240	0.0237	95.9	94.9	80.6-126			1.03	20
tert-Butylbenzene	0.0250	0.0248	0.0245	99.1	98.0	79.3-127			1.10	20
Carbon tetrachloride	0.0250	0.0227	0.0242	90.7	96.9	70.9-129			6.57	20
Chlorobenzene	0.0250	0.0244	0.0234	97.5	93.7	79.7-122			3.99	20
Chlorodibromomethane	0.0250	0.0240	0.0235	95.8	94.2	78.2-124			1.72	20
Chloroethane	0.0250	0.0325	0.0340	130	136	41.2-153			4.50	20
2-Chloroethyl vinyl ether	0.125	0.103	0.106	82.0	84.4	23.4-162			2.87	23.5
Chloroform	0.0250	0.0231	0.0244	92.2	97.6	73.2-125			5.61	20
Chloromethane	0.0250	0.0139	0.0149	55.6	59.7	55.8-134	J4		7.24	20
2-Chlorotoluene	0.0250	0.0230	0.0239	91.9	95.4	76.4-125			3.73	20
4-Chlorotoluene	0.0250	0.0228	0.0228	91.1	91.1	81.5-121			0.0200	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0226	0.0229	90.5	91.4	64.8-131			0.970	20
1,2-Dibromoethane	0.0250	0.0243	0.0247	97.1	98.7	79.8-122			1.70	20
Dibromomethane	0.0250	0.0243	0.0242	97.4	97.0	79.5-118			0.420	20
1,2-Dichlorobenzene	0.0250	0.0240	0.0228	95.9	91.0	84.7-118			5.24	20
1,3-Dichlorobenzene	0.0250	0.0238	0.0233	95.3	93.2	77.6-127			2.23	20
1,4-Dichlorobenzene	0.0250	0.0225	0.0230	90.2	92.1	82.2-114			2.11	20
Dichlorodifluoromethane	0.0250	0.0201	0.0210	80.4	84.0	56.0-134			4.37	20
1,1-Dichloroethane	0.0250	0.0224	0.0239	89.5	95.7	71.7-127			6.72	20
1,2-Dichloroethane	0.0250	0.0225	0.0231	89.9	92.3	65.3-126			2.54	20
1,1-Dichloroethene	0.0250	0.0212	0.0219	84.9	87.6	59.9-137			3.19	20
cis-1,2-Dichloroethene	0.0250	0.0227	0.0228	90.9	91.3	77.3-122			0.430	20
trans-1,2-Dichloroethene	0.0250	0.0224	0.0228	89.5	91.2	72.6-125			1.80	20
1,2-Dichloropropane	0.0250	0.0226	0.0223	90.6	89.1	77.4-125			1.68	20
1,1-Dichloropropene	0.0250	0.0214	0.0223	85.7	89.3	72.5-127			4.06	20
1,3-Dichloropropane	0.0250	0.0233	0.0228	93.1	91.4	80.6-115			1.89	20
cis-1,3-Dichloropropene	0.0250	0.0232	0.0239	92.6	95.7	77.7-124			3.32	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/26/15 21:52 • (LCSD) 11/26/15 22:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0241	0.0234	96.4	93.7	73.5-127			2.82	20
2,2-Dichloropropane	0.0250	0.0227	0.0235	90.8	94.0	61.3-134			3.47	20
Di-isopropyl ether	0.0250	0.0226	0.0233	90.4	93.0	65.1-135			2.85	20
Ethylbenzene	0.0250	0.0224	0.0238	89.6	95.2	80.9-121			6.05	20
Hexachloro-1,3-butadiene	0.0250	0.0227	0.0226	90.9	90.2	73.7-133			0.730	20
Isopropylbenzene	0.0250	0.0224	0.0228	89.5	91.0	81.6-124			1.67	20
p-Isopropyltoluene	0.0250	0.0235	0.0229	94.2	91.6	77.6-129			2.78	20
2-Butanone (MEK)	0.125	0.126	0.129	101	103	46.4-155			2.20	20
Methylene Chloride	0.0250	0.0222	0.0233	88.7	93.3	69.5-120			5.04	20
4-Methyl-2-pentanone (MIBK)	0.125	0.119	0.119	95.0	95.5	63.3-138			0.470	20
Methyl tert-butyl ether	0.0250	0.0238	0.0242	95.1	97.0	70.1-125			1.96	20
Naphthalene	0.0250	0.0241	0.0247	96.4	98.8	69.7-134			2.45	20
n-Propylbenzene	0.0250	0.0228	0.0236	91.3	94.4	81.9-122			3.29	20
Styrene	0.0250	0.0226	0.0237	90.3	94.7	79.9-124			4.75	20
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0243	96.6	97.1	78.5-125			0.540	20
1,1,2,2-Tetrachloroethane	0.0250	0.0233	0.0250	93.3	99.9	79.3-123			6.86	20
Tetrachloroethene	0.0250	0.0225	0.0221	89.9	88.4	73.5-130			1.73	20
Toluene	0.0250	0.0221	0.0217	88.2	86.8	77.9-116			1.64	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0225	0.0235	90.0	94.0	62.0-141			4.31	20
1,2,3-Trichlorobenzene	0.0250	0.0254	0.0245	101	98.1	75.7-134			3.35	20
1,2,4-Trichlorobenzene	0.0250	0.0229	0.0223	91.4	89.1	76.1-136			2.65	20
1,1,1-Trichloroethane	0.0250	0.0232	0.0244	92.9	97.5	71.1-129			4.81	20
1,1,2-Trichloroethane	0.0250	0.0234	0.0243	93.7	97.3	81.6-120			3.82	20
Trichloroethene	0.0250	0.0226	0.0230	90.3	91.9	79.5-121			1.81	20
Trichlorofluoromethane	0.0250	0.0244	0.0258	97.4	103	49.1-157			5.93	20
1,2,3-Trichloropropane	0.0250	0.0242	0.0253	96.9	101	74.9-124			4.39	20
1,2,3-Trimethylbenzene	0.0250	0.0245	0.0237	98.1	94.9	79.9-118			3.30	20
1,2,4-Trimethylbenzene	0.0250	0.0234	0.0226	93.5	90.4	79.0-122			3.36	20
1,3,5-Trimethylbenzene	0.0250	0.0223	0.0232	89.3	93.0	81.0-123			4.09	20
Vinyl chloride	0.0250	0.0196	0.0203	78.6	81.4	61.5-134			3.49	20
Xylenes, Total	0.0750	0.0695	0.0685	92.7	91.4	79.2-122			1.42	20
(S) Toluene-d8				*104*	*102*	*90.0-115*				
(S) Dibromofluoromethane				*95.9*	*100*	*79.0-121*				
(S) 4-Bromofluorobenzene				*97.3*	*103*	*80.1-120*				

L802294-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/27/15 07:09 • (MS) 11/27/15 00:17 • (MSD) 11/27/15 00:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00154	0.0543	0.0475	42.2	36.8	1	25.0-156			13.4	21.5
Acrolein	0.125	ND	0.113	0.100	90.4	80.1	1	34.0-194			12.0	21.5
Acrylonitrile	0.125	ND	0.119	0.102	94.8	81.8	1	55.9-161			14.8	20
Benzene	0.0250	ND	0.0215	0.0190	86.1	76.2	1	58.6-133			12.2	20
Bromobenzene	0.0250	ND	0.0229	0.0204	91.6	81.6	1	70.6-125			11.6	20
Bromodichloromethane	0.0250	ND	0.0224	0.0206	89.5	82.5	1	69.2-127			8.18	20
Bromoform	0.0250	ND	0.0245	0.0216	98.2	86.4	1	66.3-140			12.8	20
Bromomethane	0.0250	ND	0.0219	0.0200	87.7	79.9	1	16.6-183			9.30	20.5
n-Butylbenzene	0.0250	ND	0.0242	0.0224	96.7	89.6	1	64.8-145			7.60	20
sec-Butylbenzene	0.0250	ND	0.0232	0.0218	92.7	87.3	1	66.8-139			5.99	20
tert-Butylbenzene	0.0250	ND	0.0239	0.0219	95.5	87.5	1	67.1-138			8.76	20
Carbon tetrachloride	0.0250	ND	0.0219	0.0196	87.7	78.3	1	60.6-139			11.4	20
Chlorobenzene	0.0250	ND	0.0235	0.0217	93.8	86.9	1	70.1-130			7.69	20
Chlorodibromomethane	0.0250	ND	0.0227	0.0210	90.8	84.0	1	71.6-132			7.72	20
Chloroethane	0.0250	ND	0.0292	0.0267	117	107	1	33.3-155			8.99	20
2-Chloroethyl vinyl ether	0.125	ND	0.000	0.000	0.000	0.000	1	5.00-149	J6	J6	0.000	40
Chloroform	0.0250	ND	0.0221	0.0204	88.2	81.7	1	66.1-133			7.62	20
Chloromethane	0.0250	ND	0.0129	0.0128	51.6	51.2	1	40.7-139			0.840	20
2-Chlorotoluene	0.0250	ND	0.0235	0.0211	94.1	84.3	1	66.9-134			11.0	20
4-Chlorotoluene	0.0250	ND	0.0231	0.0209	92.5	83.6	1	66.8-134			10.0	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0224	0.0199	89.8	79.6	1	63.9-142			12.0	20.2
1,2-Dibromoethane	0.0250	ND	0.0231	0.0215	92.3	85.9	1	73.8-131			7.16	20
Dibromomethane	0.0250	ND	0.0231	0.0224	92.5	89.6	1	72.8-127			3.19	20
1,2-Dichlorobenzene	0.0250	ND	0.0244	0.0218	97.8	87.2	1	77.4-127			11.4	20
1,3-Dichlorobenzene	0.0250	ND	0.0241	0.0209	96.3	83.5	1	67.9-136			14.3	20
1,4-Dichlorobenzene	0.0250	ND	0.0234	0.0207	93.7	82.9	1	74.4-123			12.3	20
Dichlorodifluoromethane	0.0250	ND	0.0215	0.0202	85.9	80.9	1	42.2-146			5.97	20
1,1-Dichloroethane	0.0250	ND	0.0207	0.0194	82.8	77.5	1	64.0-134			6.60	20
1,2-Dichloroethane	0.0250	ND	0.0210	0.0192	83.9	76.9	1	60.7-132			8.73	20
1,1-Dichloroethene	0.0250	ND	0.0209	0.0187	83.7	74.8	1	48.8-144			11.2	20
cis-1,2-Dichloroethene	0.0250	ND	0.0234	0.0209	93.7	83.6	1	60.6-136			11.4	20
trans-1,2-Dichloroethene	0.0250	ND	0.0205	0.0181	82.1	72.2	1	61.0-132			12.7	20
1,2-Dichloropropane	0.0250	ND	0.0213	0.0202	85.3	80.6	1	69.7-130			5.63	20
1,1-Dichloropropene	0.0250	ND	0.0207	0.0183	82.6	73.1	1	61.5-136			12.3	20
1,3-Dichloropropane	0.0250	ND	0.0220	0.0199	88.2	79.7	1	74.3-123			10.1	20
cis-1,3-Dichloropropene	0.0250	ND	0.0217	0.0210	86.8	84.0	1	71.1-129			3.39	20

L802294-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/27/15 07:09 • (MS) 11/27/15 00:17 • (MSD) 11/27/15 00:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0223	0.0217	89.1	86.9	1	66.3-136			2.58	20
2,2-Dichloropropane	0.0250	ND	0.0214	0.0196	85.6	78.4	1	54.9-142			8.76	20
Di-isopropyl ether	0.0250	ND	0.0211	0.0182	84.3	72.9	1	59.9-140			14.5	20
Ethylbenzene	0.0250	ND	0.0228	0.0203	91.1	81.3	1	62.7-136			11.3	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0244	0.0221	97.6	88.2	1	61.1-144			10.1	20.1
Isopropylbenzene	0.0250	ND	0.0227	0.0211	90.8	84.5	1	67.4-136			7.29	20
p-Isopropyltoluene	0.0250	ND	0.0236	0.0204	94.5	81.5	1	62.8-143			14.8	20
2-Butanone (MEK)	0.125	ND	0.0831	0.0696	66.5	55.7	1	45.0-156			17.7	20.8
Methylene Chloride	0.0250	0.00135	0.0223	0.0203	83.7	76.0	1	61.5-125			9.05	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.117	0.107	93.8	85.3	1	60.7-150			9.43	20
Methyl tert-butyl ether	0.0250	ND	0.0221	0.0192	88.4	76.9	1	61.4-136			14.0	20
Naphthalene	0.0250	ND	0.0249	0.0222	99.7	88.7	1	61.8-143			11.7	20
n-Propylbenzene	0.0250	ND	0.0227	0.0204	90.7	81.4	1	63.2-139			10.8	20
Styrene	0.0250	ND	0.0237	0.0214	94.6	85.5	1	68.2-133			10.1	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0228	0.0217	91.4	86.7	1	70.5-132			5.27	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0247	0.0224	98.8	89.4	1	64.9-145			10.0	20
Tetrachloroethene	0.0250	ND	0.0264	0.0252	106	101	1	57.4-141			4.75	20
Toluene	0.0250	ND	0.0203	0.0205	81.3	81.8	1	67.8-124			0.680	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0214	0.0191	85.5	76.4	1	53.7-150			11.3	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0253	0.0239	101	95.5	1	65.7-143			5.87	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0244	0.0234	97.5	93.6	1	67.0-146			4.02	20
1,1,1-Trichloroethane	0.0250	ND	0.0217	0.0197	86.9	78.9	1	58.7-134			9.62	20
1,1,2-Trichloroethane	0.0250	ND	0.0234	0.0208	93.7	83.2	1	74.1-130			11.9	20
Trichloroethene	0.0250	ND	0.0221	0.0213	88.4	85.4	1	48.9-148			3.50	20
Trichlorofluoromethane	0.0250	ND	0.0232	0.0217	93.0	86.7	1	39.9-165			7.00	20
1,2,3-Trichloropropane	0.0250	ND	0.0237	0.0210	94.7	84.1	1	71.5-134			11.9	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0243	0.0217	97.1	86.8	1	62.7-133			11.2	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0246	0.0209	98.3	83.7	1	60.5-137			16.1	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0223	0.0205	89.3	81.8	1	67.9-134			8.71	20
Vinyl chloride	0.0250	ND	0.0191	0.0175	76.2	70.1	1	44.3-143			8.33	20
Xylenes, Total	0.0750	ND	0.0661	0.0611	88.1	81.5	1	65.6-133			7.78	20
(S) Toluene-d8					*100*	*107*		*90.0-115*				
(S) Dibromofluoromethane					*97.6*	*96.4*		*79.0-121*				
(S) 4-Bromofluorobenzene					*99.9*	*101*		*80.1-120*				

Method Blank (MB)

(MB) 11/24/15 06:59

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Acrolein	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 11/24/15 06:59

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
trans-1,3-Dichloropropene	ND		0.00100
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*101*		*90.0-115*
(S) Dibromofluoromethane	*99.9*		*79.0-121*
(S) 4-Bromofluorobenzene	*92.3*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/24/15 05:48 • (LCSD) 11/24/15 06:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.142	0.139	113	111	28.7-175			2.02	20.9
Acrolein	0.125	0.128	0.122	103	97.7	40.4-172			5.06	20
Acrylonitrile	0.125	0.152	0.151	122	121	58.2-145			1.10	20
Benzene	0.0250	0.0243	0.0259	97.2	104	73.0-122			6.50	20
Bromobenzene	0.0250	0.0223	0.0241	89.0	96.5	81.5-115			8.02	20
Bromodichloromethane	0.0250	0.0229	0.0244	91.4	97.7	75.5-121			6.63	20
Bromoform	0.0250	0.0246	0.0252	98.4	101	71.5-131			2.55	20
Bromomethane	0.0250	0.0261	0.0258	104	103	22.4-187			1.33	20
n-Butylbenzene	0.0250	0.0262	0.0286	105	114	75.9-134			8.94	20
sec-Butylbenzene	0.0250	0.0227	0.0248	90.7	99.4	80.6-126			9.19	20
tert-Butylbenzene	0.0250	0.0227	0.0249	90.9	99.5	79.3-127			8.96	20
Carbon tetrachloride	0.0250	0.0250	0.0259	100	103	70.9-129			3.48	20
Chlorobenzene	0.0250	0.0221	0.0238	88.6	95.0	79.7-122			7.01	20
Chlorodibromomethane	0.0250	0.0226	0.0243	90.2	97.3	78.2-124			7.58	20
Chloroethane	0.0250	0.0252	0.0254	101	102	41.2-153			0.680	20
2-Chloroethyl vinyl ether	0.125	0.146	0.216	117	173	23.4-162		J3 J4	38.8	23.5
Chloroform	0.0250	0.0243	0.0254	97.4	101	73.2-125			4.09	20
Chloromethane	0.0250	0.0266	0.0270	106	108	55.8-134			1.39	20
2-Chlorotoluene	0.0250	0.0221	0.0242	88.5	96.9	76.4-125			9.04	20
4-Chlorotoluene	0.0250	0.0229	0.0249	91.5	99.8	81.5-121			8.65	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0235	0.0239	94.0	95.5	64.8-131			1.57	20
1,2-Dibromoethane	0.0250	0.0232	0.0243	92.7	97.1	79.8-122			4.65	20
Dibromomethane	0.0250	0.0239	0.0250	95.7	100	79.5-118			4.51	20
1,2-Dichlorobenzene	0.0250	0.0244	0.0260	97.4	104	84.7-118			6.50	20
1,3-Dichlorobenzene	0.0250	0.0218	0.0240	87.3	95.8	77.6-127			9.32	20
1,4-Dichlorobenzene	0.0250	0.0223	0.0245	89.3	97.9	82.2-114			9.24	20
Dichlorodifluoromethane	0.0250	0.0225	0.0230	90.1	91.9	56.0-134			1.97	20
1,1-Dichloroethane	0.0250	0.0258	0.0274	103	110	71.7-127			6.10	20
1,2-Dichloroethane	0.0250	0.0230	0.0236	91.8	94.3	65.3-126			2.66	20
1,1-Dichloroethene	0.0250	0.0249	0.0256	99.4	102	59.9-137			2.80	20
cis-1,2-Dichloroethene	0.0250	0.0248	0.0261	99.3	104	77.3-122			5.11	20
trans-1,2-Dichloroethene	0.0250	0.0239	0.0253	95.5	101	72.6-125			5.65	20
1,2-Dichloropropane	0.0250	0.0267	0.0280	107	112	77.4-125			4.89	20
1,1-Dichloropropene	0.0250	0.0255	0.0262	102	105	72.5-127			2.79	20
1,3-Dichloropropane	0.0250	0.0230	0.0240	92.1	96.1	80.6-115			4.22	20
cis-1,3-Dichloropropene	0.0250	0.0260	0.0271	104	108	77.7-124			4.27	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/24/15 05:48 • (LCSD) 11/24/15 06:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0246	0.0257	98.5	103	73.5-127			4.08	20
2,2-Dichloropropane	0.0250	0.0257	0.0261	103	105	61.3-134			1.65	20
Di-isopropyl ether	0.0250	0.0298	0.0311	119	125	65.1-135			4.45	20
Ethylbenzene	0.0250	0.0224	0.0246	89.7	98.3	80.9-121			9.13	20
Hexachloro-1,3-butadiene	0.0250	0.0232	0.0241	92.8	96.4	73.7-133			3.73	20
Isopropylbenzene	0.0250	0.0225	0.0248	90.1	99.0	81.6-124			9.43	20
p-Isopropyltoluene	0.0250	0.0231	0.0253	92.5	101	77.6-129			8.96	20
2-Butanone (MEK)	0.125	0.165	0.161	132	129	46.4-155			2.14	20
Methylene Chloride	0.0250	0.0221	0.0232	88.4	92.6	69.5-120			4.69	20
4-Methyl-2-pentanone (MIBK)	0.125	0.133	0.135	106	108	63.3-138			1.64	20
Methyl tert-butyl ether	0.0250	0.0245	0.0253	98.2	101	70.1-125			2.88	20
Naphthalene	0.0250	0.0238	0.0247	95.0	98.9	69.7-134			4.03	20
n-Propylbenzene	0.0250	0.0229	0.0249	91.6	99.5	81.9-122			8.30	20
Styrene	0.0250	0.0211	0.0229	84.5	91.8	79.9-124			8.27	20
1,1,1,2-Tetrachloroethane	0.0250	0.0224	0.0241	89.7	96.6	78.5-125			7.38	20
1,1,2,2-Tetrachloroethane	0.0250	0.0235	0.0249	93.8	99.7	79.3-123			6.13	20
Tetrachloroethene	0.0250	0.0218	0.0232	87.2	92.9	73.5-130			6.35	20
Toluene	0.0250	0.0224	0.0240	89.7	96.2	77.9-116			6.95	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0251	0.0261	100	104	62.0-141			3.74	20
1,2,3-Trichlorobenzene	0.0250	0.0232	0.0246	92.9	98.5	75.7-134			5.93	20
1,2,4-Trichlorobenzene	0.0250	0.0242	0.0264	96.7	106	76.1-136			8.73	20
1,1,1-Trichloroethane	0.0250	0.0238	0.0248	95.4	99.0	71.1-129			3.75	20
1,1,2-Trichloroethane	0.0250	0.0223	0.0237	89.1	94.8	81.6-120			6.26	20
Trichloroethene	0.0250	0.0235	0.0241	94.1	96.3	79.5-121			2.34	20
Trichlorofluoromethane	0.0250	0.0241	0.0250	96.5	100	49.1-157			3.55	20
1,2,3-Trichloropropane	0.0250	0.0224	0.0225	89.6	90.1	74.9-124			0.560	20
1,2,3-Trimethylbenzene	0.0250	0.0241	0.0261	96.5	104	79.9-118			7.74	20
1,2,4-Trimethylbenzene	0.0250	0.0221	0.0246	88.6	98.5	79.0-122			10.6	20
1,3,5-Trimethylbenzene	0.0250	0.0225	0.0250	89.9	100	81.0-123			10.7	20
Vinyl chloride	0.0250	0.0250	0.0254	100	102	61.5-134			1.75	20
Xylenes, Total	0.0750	0.0677	0.0734	90.3	97.9	79.2-122			8.06	20
(S) Toluene-d8				*101*	*102*	*90.0-115*				
(S) Dibromofluoromethane				*102*	*102*	*79.0-121*				
(S) 4-Bromofluorobenzene				*94.0*	*93.8*	*80.1-120*				

L802294-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/24/15 09:24 • (MS) 11/24/15 09:42 • (MSD) 11/24/15 10:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00225	0.0679	0.0678	52.5	52.5	1	25.0-156			0.180	21.5
Acrolein	0.125	ND	0.136	0.141	109	113	1	34.0-194			3.63	21.5
Acrylonitrile	0.125	ND	0.165	0.172	132	138	1	55.9-161			4.48	20
Benzene	0.0250	ND	0.0262	0.0268	105	107	1	58.6-133			2.18	20
Bromobenzene	0.0250	ND	0.0240	0.0244	96.2	97.7	1	70.6-125			1.62	20
Bromodichloromethane	0.0250	ND	0.0245	0.0255	98.0	102	1	69.2-127			4.11	20
Bromoform	0.0250	ND	0.0258	0.0264	103	106	1	66.3-140			2.31	20
Bromomethane	0.0250	ND	0.0267	0.0268	107	107	1	16.6-183			0.530	20.5
n-Butylbenzene	0.0250	ND	0.0275	0.0282	110	113	1	64.8-145			2.66	20
sec-Butylbenzene	0.0250	ND	0.0250	0.0252	99.9	101	1	66.8-139			1.05	20
tert-Butylbenzene	0.0250	ND	0.0248	0.0250	99.2	99.9	1	67.1-138			0.700	20
Carbon tetrachloride	0.0250	ND	0.0263	0.0268	105	107	1	60.6-139			1.73	20
Chlorobenzene	0.0250	ND	0.0237	0.0240	94.7	96.0	1	70.1-130			1.37	20
Chlorodibromomethane	0.0250	ND	0.0247	0.0253	98.7	101	1	71.6-132			2.42	20
Chloroethane	0.0250	ND	0.0266	0.0264	106	106	1	33.3-155			0.840	20
2-Chloroethyl vinyl ether	0.125	ND	0.0125	0.0164	9.98	13.1	1	5.00-149			27.1	40
Chloroform	0.0250	ND	0.0257	0.0262	103	105	1	66.1-133			1.96	20
Chloromethane	0.0250	ND	0.0272	0.0273	109	109	1	40.7-139			0.300	20
2-Chlorotoluene	0.0250	ND	0.0241	0.0246	96.3	98.6	1	66.9-134			2.35	20
4-Chlorotoluene	0.0250	ND	0.0250	0.0253	100	101	1	66.8-134			0.990	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0253	0.0283	101	113	1	63.9-142			11.3	20.2
1,2-Dibromoethane	0.0250	ND	0.0246	0.0255	98.4	102	1	73.8-131			3.82	20
Dibromomethane	0.0250	ND	0.0259	0.0269	103	108	1	72.8-127			3.94	20
1,2-Dichlorobenzene	0.0250	ND	0.0252	0.0265	101	106	1	77.4-127			5.23	20
1,3-Dichlorobenzene	0.0250	ND	0.0243	0.0244	97.1	97.4	1	67.9-136			0.340	20
1,4-Dichlorobenzene	0.0250	ND	0.0240	0.0250	95.9	99.9	1	74.4-123			4.08	20
Dichlorodifluoromethane	0.0250	ND	0.0221	0.0219	88.5	87.6	1	42.2-146			1.04	20
1,1-Dichloroethane	0.0250	ND	0.0274	0.0280	109	112	1	64.0-134			2.32	20
1,2-Dichloroethane	0.0250	ND	0.0243	0.0251	97.2	100	1	60.7-132			3.11	20
1,1-Dichloroethene	0.0250	ND	0.0263	0.0271	105	108	1	48.8-144			2.77	20
cis-1,2-Dichloroethene	0.0250	ND	0.0260	0.0266	104	107	1	60.6-136			2.43	20
trans-1,2-Dichloroethene	0.0250	ND	0.0247	0.0254	98.7	101	1	61.0-132			2.82	20
1,2-Dichloropropane	0.0250	ND	0.0284	0.0287	113	115	1	69.7-130			1.07	20
1,1-Dichloropropene	0.0250	ND	0.0269	0.0272	108	109	1	61.5-136			0.860	20
1,3-Dichloropropane	0.0250	ND	0.0243	0.0253	97.4	101	1	74.3-123			3.99	20
cis-1,3-Dichloropropene	0.0250	ND	0.0266	0.0277	106	111	1	71.1-129			4.14	20

L802294-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/24/15 09:24 • (MS) 11/24/15 09:42 • (MSD) 11/24/15 10:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0262	0.0270	105	108	1	66.3-136			2.79	20
2,2-Dichloropropane	0.0250	ND	0.0269	0.0259	108	103	1	54.9-142			3.98	20
Di-isopropyl ether	0.0250	ND	0.0314	0.0321	126	128	1	59.9-140			2.27	20
Ethylbenzene	0.0250	ND	0.0243	0.0247	97.2	98.7	1	62.7-136			1.49	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0233	0.0248	93.2	99.3	1	61.1-144			6.31	20.1
Isopropylbenzene	0.0250	ND	0.0248	0.0251	99.1	100	1	67.4-136			1.32	20
p-Isopropyltoluene	0.0250	ND	0.0253	0.0254	101	102	1	62.8-143			0.510	20
2-Butanone (MEK)	0.125	ND	0.120	0.125	95.6	100	1	45.0-156			4.59	20.8
Methylene Chloride	0.0250	ND	0.0227	0.0229	90.8	91.4	1	61.5-125			0.710	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.144	0.154	115	123	1	60.7-150			6.48	20
Methyl tert-butyl ether	0.0250	ND	0.0260	0.0262	104	105	1	61.4-136			0.880	20
Naphthalene	0.0250	ND	0.0247	0.0268	98.7	107	1	61.8-143			8.26	20
n-Propylbenzene	0.0250	ND	0.0250	0.0253	100	101	1	63.2-139			1.22	20
Styrene	0.0250	ND	0.0221	0.0233	88.5	93.1	1	68.2-133			5.03	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0240	0.0242	95.8	96.8	1	70.5-132			1.04	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0267	0.0271	107	108	1	64.9-145			1.45	20
Tetrachloroethene	0.0250	ND	0.0234	0.0234	93.5	93.6	1	57.4-141			0.110	20
Toluene	0.0250	ND	0.0242	0.0251	97.0	101	1	67.8-124			3.58	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0278	0.0280	111	112	1	53.7-150			0.480	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0228	0.0246	91.2	98.2	1	65.7-143			7.39	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0243	0.0262	97.3	105	1	67.0-146			7.57	20
1,1,1-Trichloroethane	0.0250	ND	0.0250	0.0257	100	103	1	58.7-134			2.48	20
1,1,2-Trichloroethane	0.0250	ND	0.0242	0.0250	96.7	99.9	1	74.1-130			3.22	20
Trichloroethene	0.0250	ND	0.0245	0.0248	97.9	99.3	1	48.9-148			1.45	20
Trichlorofluoromethane	0.0250	ND	0.0256	0.0261	102	104	1	39.9-165			1.99	20
1,2,3-Trichloropropane	0.0250	ND	0.0241	0.0255	96.4	102	1	71.5-134			5.65	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0252	0.0263	101	105	1	62.7-133			4.30	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0246	0.0248	98.5	99.0	1	60.5-137			0.560	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0247	0.0251	98.9	100	1	67.9-134			1.46	20
Vinyl chloride	0.0250	ND	0.0259	0.0267	104	107	1	44.3-143			3.01	20
Xylenes, Total	0.0750	ND	0.0732	0.0742	97.5	98.9	1	65.6-133			1.40	20
(S) Toluene-d8					*102*	*102*		*90.0-115*				
(S) Dibromofluoromethane					*101*	*101*		*79.0-121*				
(S) 4-Bromofluorobenzene					*94.9*	*93.1*		*80.1-120*				

Method Blank (MB)

(MB) 11/25/15 07:25

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*103*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 06:46 • (LCSD) 11/25/15 08:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0594	0.0470	119	94.0	70.0-130			23.4	25
(S) Toluene-d8				*103*	*103*	*70.0-130*				

L802294-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/25/15 09:42 • (MS) 11/25/15 08:43 • (MSD) 11/25/15 09:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	ND	0.0433	0.0472	86.7	94.4	1	0.000-200			8.56	42
(S) Toluene-d8					*103*	*103*		*70.0-130*				

Method Blank (MB)

(MB) 11/25/15 15:55

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Acrolein	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 11/25/15 15:55

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
trans-1,3-Dichloropropene	ND		0.00100
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
1,1,2,2-Tetrachloroethane	ND		0.00100
n-Propylbenzene	ND		0.00100
Tetrachloroethene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
Toluene	ND		0.00500
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*99.3*		*90.0-115*
(S) Dibromofluoromethane	*101*		*79.0-121*
(S) 4-Bromofluorobenzene	*104*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 14:38 • (LCSD) 11/25/15 14:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.145	0.136	116	109	28.7-175			6.60	20.9
Acrolein	0.125	0.163	0.160	131	128	40.4-172			1.92	20
Acrylonitrile	0.125	0.117	0.114	93.6	91.0	58.2-145			2.74	20
Benzene	0.0250	0.0232	0.0232	92.7	92.9	73.0-122			0.190	20
Bromobenzene	0.0250	0.0266	0.0270	106	108	81.5-115			1.31	20
Bromodichloromethane	0.0250	0.0266	0.0264	106	106	75.5-121			0.580	20
Bromoform	0.0250	0.0282	0.0285	113	114	71.5-131			1.08	20
Bromomethane	0.0250	0.0295	0.0321	118	129	22.4-187			8.68	20
n-Butylbenzene	0.0250	0.0264	0.0275	106	110	75.9-134			4.02	20
sec-Butylbenzene	0.0250	0.0269	0.0278	108	111	80.6-126			3.42	20
tert-Butylbenzene	0.0250	0.0275	0.0281	110	112	79.3-127			2.19	20
Carbon tetrachloride	0.0250	0.0262	0.0266	105	107	70.9-129			1.73	20
Chlorobenzene	0.0250	0.0264	0.0269	106	107	79.7-122			1.72	20
Chlorodibromomethane	0.0250	0.0290	0.0293	116	117	78.2-124			1.01	20
Chloroethane	0.0250	0.0352	0.0351	141	140	41.2-153			0.330	20
2-Chloroethyl vinyl ether	0.125	0.122	0.122	97.7	97.8	23.4-162			0.0600	23.5
Chloroform	0.0250	0.0258	0.0259	103	104	73.2-125			0.400	20
Chloromethane	0.0250	0.0211	0.0218	84.5	87.1	55.8-134			2.93	20
2-Chlorotoluene	0.0250	0.0260	0.0268	104	107	76.4-125			3.09	20
4-Chlorotoluene	0.0250	0.0265	0.0270	106	108	81.5-121			2.15	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0267	0.0268	107	107	64.8-131			0.500	20
1,2-Dibromoethane	0.0250	0.0283	0.0283	113	113	79.8-122			0.100	20
1,2-Dichlorobenzene	0.0250	0.0265	0.0272	106	109	84.7-118			2.71	20
Dibromomethane	0.0250	0.0269	0.0262	108	105	79.5-118			2.85	20
1,3-Dichlorobenzene	0.0250	0.0268	0.0272	107	109	77.6-127			1.67	20
1,4-Dichlorobenzene	0.0250	0.0251	0.0254	100	102	82.2-114			1.53	20
Dichlorodifluoromethane	0.0250	0.0292	0.0297	117	119	56.0-134			1.75	20
1,1-Dichloroethane	0.0250	0.0237	0.0245	94.9	97.9	71.7-127			3.02	20
1,2-Dichloroethane	0.0250	0.0284	0.0289	114	116	65.3-126			1.70	20
1,1-Dichloroethene	0.0250	0.0259	0.0256	104	102	59.9-137			1.04	20
trans-1,2-Dichloroethene	0.0250	0.0243	0.0249	97.4	99.6	72.6-125			2.23	20
cis-1,2-Dichloroethene	0.0250	0.0244	0.0244	97.4	97.8	77.3-122			0.340	20
1,2-Dichloropropane	0.0250	0.0234	0.0235	93.7	94.0	77.4-125			0.390	20
1,3-Dichloropropane	0.0250	0.0268	0.0264	107	106	80.6-115			1.52	20
1,1-Dichloropropene	0.0250	0.0251	0.0255	100	102	72.5-127			1.67	20
cis-1,3-Dichloropropene	0.0250	0.0265	0.0262	106	105	77.7-124			1.15	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 14:38 • (LCSD) 11/25/15 14:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0273	0.0272	109	109	73.5-127			0.290	20
2,2-Dichloropropane	0.0250	0.0269	0.0272	108	109	61.3-134			1.11	20
Di-isopropyl ether	0.0250	0.0224	0.0226	89.8	90.5	65.1-135			0.770	20
Ethylbenzene	0.0250	0.0270	0.0270	108	108	80.9-121			0.130	20
Hexachloro-1,3-butadiene	0.0250	0.0269	0.0280	108	112	73.7-133			4.07	20
Isopropylbenzene	0.0250	0.0268	0.0275	107	110	81.6-124			2.69	20
p-Isopropyltoluene	0.0250	0.0273	0.0282	109	113	77.6-129			3.34	20
2-Butanone (MEK)	0.125	0.138	0.130	110	104	46.4-155			6.10	20
Methylene Chloride	0.0250	0.0230	0.0229	91.9	91.7	69.5-120			0.200	20
4-Methyl-2-pentanone (MIBK)	0.125	0.126	0.121	100	96.4	63.3-138			4.05	20
Methyl tert-butyl ether	0.0250	0.0250	0.0253	100	101	70.1-125			0.910	20
Naphthalene	0.0250	0.0259	0.0266	104	106	69.7-134			2.76	20
n-Propylbenzene	0.0250	0.0268	0.0276	107	110	81.9-122			2.75	20
Styrene	0.0250	0.0269	0.0270	108	108	79.9-124			0.270	20
1,1,2,2-Tetrachloroethane	0.0250	0.0267	0.0269	107	108	79.3-123			0.630	20
1,1,1,2-Tetrachloroethane	0.0250	0.0285	0.0292	114	117	78.5-125			2.42	20
Tetrachloroethene	0.0250	0.0271	0.0277	109	111	73.5-130			2.04	20
Toluene	0.0250	0.0247	0.0255	98.7	102	77.9-116			3.30	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0266	0.0269	106	108	62.0-141			1.41	20
1,2,3-Trichlorobenzene	0.0250	0.0283	0.0281	113	112	75.7-134			0.530	20
1,2,4-Trichlorobenzene	0.0250	0.0274	0.0280	110	112	76.1-136			2.15	20
1,1,1-Trichloroethane	0.0250	0.0275	0.0275	110	110	71.1-129			0.130	20
1,1,2-Trichloroethane	0.0250	0.0272	0.0272	109	109	81.6-120			0.240	20
Trichloroethene	0.0250	0.0265	0.0268	106	107	79.5-121			1.30	20
Trichlorofluoromethane	0.0250	0.0302	0.0310	121	124	49.1-157			2.67	20
1,2,3-Trichloropropane	0.0250	0.0278	0.0279	111	112	74.9-124			0.260	20
1,2,3-Trimethylbenzene	0.0250	0.0257	0.0265	103	106	79.9-118			3.30	20
1,2,4-Trimethylbenzene	0.0250	0.0270	0.0275	108	110	79.0-122			1.93	20
1,3,5-Trimethylbenzene	0.0250	0.0266	0.0274	106	110	81.0-123			2.97	20
Vinyl chloride	0.0250	0.0260	0.0263	104	105	61.5-134			1.32	20
Xylenes, Total	0.0750	0.0771	0.0793	103	106	79.2-122			2.74	20
(S) Toluene-d8				*100*	*100*	*90.0-115*				
(S) Dibromofluoromethane				*99.3*	*101*	*79.0-121*				
(S) 4-Bromofluorobenzene				*106*	*106*	*80.1-120*				

L802972-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/25/15 23:06 • (MS) 11/25/15 17:57 • (MSD) 11/25/15 18:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrolein	0.125	ND	0.166	0.182	133	146	1	34.0-194			9.46	21.5
Acetone	0.125	0.000790	0.151	0.161	120	128	1	25.0-156			6.31	21.5
Acrylonitrile	0.125	ND	0.120	0.130	95.8	104	1	55.9-161			8.44	20
Benzene	0.0250	0.000437	0.0236	0.0244	92.5	95.9	1	58.6-133			3.56	20
Bromobenzene	0.0250	ND	0.0270	0.0287	108	115	1	70.6-125			6.01	20
Bromodichloromethane	0.0250	ND	0.0273	0.0284	109	114	1	69.2-127			3.75	20
Bromoform	0.0250	ND	0.0292	0.0315	117	126	1	66.3-140			7.85	20
Bromomethane	0.0250	ND	0.0352	0.0354	141	141	1	16.6-183			0.500	20.5
n-Butylbenzene	0.0250	ND	0.0285	0.0293	114	117	1	64.8-145			2.60	20
sec-Butylbenzene	0.0250	ND	0.0278	0.0289	111	116	1	66.8-139			3.75	20
tert-Butylbenzene	0.0250	ND	0.0281	0.0289	112	116	1	67.1-138			3.04	20
Carbon tetrachloride	0.0250	ND	0.0271	0.0283	108	113	1	60.6-139			4.66	20
Chlorobenzene	0.0250	ND	0.0265	0.0278	106	111	1	70.1-130			4.61	20
Chlorodibromomethane	0.0250	ND	0.0298	0.0308	119	123	1	71.6-132			3.05	20
Chloroethane	0.0250	ND	0.0369	0.0370	148	148	1	33.3-155			0.340	20
2-Chloroethyl vinyl ether	0.125	ND	0.126	0.134	101	107	1	5.00-149			5.51	40
Chloroform	0.0250	0.000532	0.0267	0.0276	105	108	1	66.1-133			3.40	20
Chloromethane	0.0250	ND	0.0221	0.0224	88.3	89.7	1	40.7-139			1.58	20
2-Chlorotoluene	0.0250	ND	0.0266	0.0274	107	110	1	66.9-134			2.74	20
4-Chlorotoluene	0.0250	ND	0.0277	0.0284	111	113	1	66.8-134			2.47	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0277	0.0302	111	121	1	63.9-142			8.78	20.2
1,2-Dibromoethane	0.0250	ND	0.0288	0.0298	115	119	1	73.8-131			3.48	20
1,2-Dichlorobenzene	0.0250	ND	0.0272	0.0284	109	113	1	77.4-127			4.17	20
Dibromomethane	0.0250	ND	0.0271	0.0281	109	112	1	72.8-127			3.33	20
1,3-Dichlorobenzene	0.0250	ND	0.0278	0.0291	111	116	1	67.9-136			4.57	20
1,4-Dichlorobenzene	0.0250	ND	0.0269	0.0275	108	110	1	74.4-123			2.17	20
Dichlorodifluoromethane	0.0250	ND	0.0320	0.0328	128	131	1	42.2-146			2.58	20
1,1-Dichloroethane	0.0250	ND	0.0246	0.0256	98.4	102	1	64.0-134			4.08	20
1,2-Dichloroethane	0.0250	ND	0.0296	0.0308	119	123	1	60.7-132			3.89	20
1,1-Dichloroethene	0.0250	ND	0.0265	0.0278	106	111	1	48.8-144			4.86	20
trans-1,2-Dichloroethene	0.0250	ND	0.0249	0.0261	99.5	104	1	61.0-132			4.84	20
cis-1,2-Dichloroethene	0.0250	ND	0.0247	0.0257	98.7	103	1	60.6-136			4.26	20
1,2-Dichloropropane	0.0250	ND	0.0239	0.0245	95.5	98.1	1	69.7-130			2.70	20
1,3-Dichloropropane	0.0250	ND	0.0270	0.0279	108	112	1	74.3-123			3.48	20
1,1-Dichloropropene	0.0250	ND	0.0261	0.0272	104	109	1	61.5-136			3.97	20
cis-1,3-Dichloropropene	0.0250	ND	0.0268	0.0280	107	112	1	71.1-129			4.36	20

L802972-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/25/15 23:06 • (MS) 11/25/15 17:57 • (MSD) 11/25/15 18:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0284	0.0292	114	117	1	66.3-136			2.71	20
2,2-Dichloropropane	0.0250	ND	0.0277	0.0287	111	115	1	54.9-142			3.56	20
Di-isopropyl ether	0.0250	ND	0.0229	0.0236	91.6	94.3	1	59.9-140			2.98	20
Ethylbenzene	0.0250	ND	0.0276	0.0278	111	111	1	62.7-136			0.600	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0283	0.0292	113	117	1	61.1-144			3.02	20.1
Isopropylbenzene	0.0250	ND	0.0275	0.0288	110	115	1	67.4-136			4.89	20
p-Isopropyltoluene	0.0250	ND	0.0283	0.0297	113	119	1	62.8-143			4.81	20
2-Butanone (MEK)	0.125	ND	0.144	0.153	115	122	1	45.0-156			5.98	20.8
Methylene Chloride	0.0250	ND	0.0233	0.0237	93.1	95.0	1	61.5-125			2.06	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.131	0.139	105	111	1	60.7-150			5.29	20
Methyl tert-butyl ether	0.0250	ND	0.0256	0.0266	102	106	1	61.4-136			3.94	20
Naphthalene	0.0250	0.000772	0.0257	0.0282	99.6	110	1	61.8-143			9.33	20
n-Propylbenzene	0.0250	ND	0.0277	0.0286	111	115	1	63.2-139			3.18	20
Styrene	0.0250	ND	0.0272	0.0280	109	112	1	68.2-133			2.85	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0274	0.0297	110	119	1	64.9-145			7.87	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0292	0.0302	117	121	1	70.5-132			3.40	20
Tetrachloroethene	0.0250	ND	0.0281	0.0287	112	115	1	57.4-141			2.27	20
Toluene	0.0250	ND	0.0258	0.0265	103	106	1	67.8-124			2.71	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0275	0.0287	110	115	1	53.7-150			4.06	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0283	0.0310	113	124	1	65.7-143			8.85	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0289	0.0307	116	123	1	67.0-146			6.11	20
1,1,1-Trichloroethane	0.0250	ND	0.0286	0.0297	114	119	1	58.7-134			3.59	20
1,1,2-Trichloroethane	0.0250	ND	0.0271	0.0290	108	116	1	74.1-130			6.62	20
Trichloroethene	0.0250	ND	0.0271	0.0276	108	110	1	48.9-148			1.86	20
Trichlorofluoromethane	0.0250	ND	0.0321	0.0331	128	132	1	39.9-165			3.22	20
1,2,3-Trichloropropane	0.0250	ND	0.0281	0.0311	112	125	1	71.5-134			10.3	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0273	0.0281	109	112	1	62.7-133			3.03	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0278	0.0290	111	116	1	60.5-137			4.30	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0275	0.0286	110	114	1	67.9-134			3.67	20
Vinyl chloride	0.0250	ND	0.0262	0.0270	105	108	1	44.3-143			2.97	20
Xylenes, Total	0.0750	ND	0.0792	0.0819	106	109	1	65.6-133			3.31	20
(S) Toluene-d8					*101*	*101*		*90.0-115*				
(S) Dibromofluoromethane					*102*	*101*		*79.0-121*				
(S) 4-Bromofluorobenzene					*105*	*106*		*80.1-120*				

Method Blank (MB)

(MB) 11/29/15 11:29

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*105*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/29/15 10:30 • (LCSD) 11/29/15 10:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0436	0.0404	87.3	80.7	70.0-130			7.79	25
(S) Toluene-d8				*104*	*104*	*70.0-130*				

L803133-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/29/15 18:10 • (MS) 11/29/15 12:38 • (MSD) 11/29/15 12:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0295	0.0723	0.0749	85.5	90.7	1	0.000-200			3.49	42
(S) Toluene-d8					*105*	*105*		*70.0-130*				

Method Blank (MB)

(MB) 12/01/15 09:49

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Acrolein	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 12/01/15 09:49

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
trans-1,3-Dichloropropene	ND		0.00100
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*101*		*90.0-115*
(S) Dibromofluoromethane	*95.0*		*79.0-121*
(S) 4-Bromofluorobenzene	*90.4*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/01/15 08:38 • (LCSD) 12/01/15 08:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.155	0.139	124	111	28.7-175			11.3	20.9
Acrolein	0.125	0.150	0.136	120	108	40.4-172			10.1	20
Acrylonitrile	0.125	0.160	0.145	128	116	58.2-145			10.1	20
Benzene	0.0250	0.0267	0.0262	107	105	73.0-122			1.97	20
Bromobenzene	0.0250	0.0244	0.0245	97.4	97.8	81.5-115			0.410	20
Bromodichloromethane	0.0250	0.0261	0.0256	104	102	75.5-121			1.69	20
Bromoform	0.0250	0.0292	0.0282	117	113	71.5-131			3.54	20
Bromomethane	0.0250	0.0283	0.0281	113	112	22.4-187			0.620	20
n-Butylbenzene	0.0250	0.0245	0.0251	97.8	100	75.9-134			2.44	20
sec-Butylbenzene	0.0250	0.0239	0.0250	95.4	100	80.6-126			4.89	20
tert-Butylbenzene	0.0250	0.0248	0.0258	99.1	103	79.3-127			4.03	20
Carbon tetrachloride	0.0250	0.0269	0.0268	107	107	70.9-129			0.110	20
Chlorobenzene	0.0250	0.0251	0.0254	100	102	79.7-122			1.22	20
Chlorodibromomethane	0.0250	0.0265	0.0257	106	103	78.2-124			3.23	20
Chloroethane	0.0250	0.0276	0.0269	110	108	41.2-153			2.56	20
2-Chloroethyl vinyl ether	0.125	0.108	0.0950	86.7	76.0	23.4-162			13.2	23.5
Chloroform	0.0250	0.0263	0.0251	105	100	73.2-125			4.53	20
Chloromethane	0.0250	0.0315	0.0310	126	124	55.8-134			1.60	20
2-Chlorotoluene	0.0250	0.0252	0.0258	101	103	76.4-125			2.18	20
4-Chlorotoluene	0.0250	0.0244	0.0248	97.5	99.2	81.5-121			1.74	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0251	0.0243	100	97.2	64.8-131			3.20	20
1,2-Dibromoethane	0.0250	0.0258	0.0253	103	101	79.8-122			2.06	20
Dibromomethane	0.0250	0.0277	0.0261	111	105	79.5-118			5.95	20
1,2-Dichlorobenzene	0.0250	0.0264	0.0263	106	105	84.7-118			0.270	20
1,3-Dichlorobenzene	0.0250	0.0247	0.0250	98.6	100	77.6-127			1.39	20
1,4-Dichlorobenzene	0.0250	0.0242	0.0245	96.9	98.2	82.2-114			1.25	20
Dichlorodifluoromethane	0.0250	0.0241	0.0229	96.4	91.7	56.0-134			4.96	20
1,1-Dichloroethane	0.0250	0.0282	0.0272	113	109	71.7-127			3.83	20
1,2-Dichloroethane	0.0250	0.0241	0.0230	96.4	92.0	65.3-126			4.67	20
1,1-Dichloroethene	0.0250	0.0258	0.0256	103	102	59.9-137			0.690	20
cis-1,2-Dichloroethene	0.0250	0.0263	0.0256	105	103	77.3-122			2.61	20
trans-1,2-Dichloroethene	0.0250	0.0261	0.0257	105	103	72.6-125			1.79	20
1,2-Dichloropropane	0.0250	0.0306	0.0302	122	121	77.4-125			1.41	20
1,1-Dichloropropene	0.0250	0.0271	0.0268	108	107	72.5-127			1.03	20
1,3-Dichloropropane	0.0250	0.0257	0.0250	103	99.9	80.6-115			2.89	20
cis-1,3-Dichloropropene	0.0250	0.0292	0.0284	117	114	77.7-124			2.77	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/01/15 08:38 • (LCSD) 12/01/15 08:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0278	0.0265	111	106	73.5-127			4.84	20
2,2-Dichloropropane	0.0250	0.0276	0.0275	110	110	61.3-134			0.460	20
Di-isopropyl ether	0.0250	0.0329	0.0314	131	125	65.1-135			4.69	20
Ethylbenzene	0.0250	0.0256	0.0259	102	103	80.9-121			1.12	20
Hexachloro-1,3-butadiene	0.0250	0.0247	0.0255	98.9	102	73.7-133			3.16	20
Isopropylbenzene	0.0250	0.0249	0.0256	99.7	102	81.6-124			2.63	20
p-Isopropyltoluene	0.0250	0.0239	0.0250	95.5	100	77.6-129			4.52	20
2-Butanone (MEK)	0.125	0.180	0.161	144	129	46.4-155			11.4	20
Methylene Chloride	0.0250	0.0232	0.0221	92.8	88.6	69.5-120			4.70	20
4-Methyl-2-pentanone (MIBK)	0.125	0.147	0.136	118	109	63.3-138			8.03	20
Methyl tert-butyl ether	0.0250	0.0244	0.0225	97.5	89.9	70.1-125			8.20	20
Naphthalene	0.0250	0.0237	0.0237	94.7	95.0	69.7-134			0.230	20
n-Propylbenzene	0.0250	0.0241	0.0252	96.6	101	81.9-122			4.39	20
Styrene	0.0250	0.0225	0.0226	90.2	90.3	79.9-124			0.110	20
1,1,1,2-Tetrachloroethane	0.0250	0.0266	0.0265	106	106	78.5-125			0.250	20
1,1,2,2-Tetrachloroethane	0.0250	0.0254	0.0247	102	98.6	79.3-123			2.96	20
Tetrachloroethene	0.0250	0.0261	0.0270	104	108	73.5-130			3.62	20
Toluene	0.0250	0.0261	0.0260	104	104	77.9-116			0.280	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0261	0.0258	104	103	62.0-141			1.16	20
1,2,3-Trichlorobenzene	0.0250	0.0239	0.0240	95.6	95.9	75.7-134			0.330	20
1,2,4-Trichlorobenzene	0.0250	0.0247	0.0244	98.7	97.7	76.1-136			1.08	20
1,1,1-Trichloroethane	0.0250	0.0253	0.0249	101	99.4	71.1-129			1.85	20
1,1,2-Trichloroethane	0.0250	0.0253	0.0244	101	97.6	81.6-120			3.47	20
Trichloroethene	0.0250	0.0272	0.0271	109	108	79.5-121			0.550	20
Trichlorofluoromethane	0.0250	0.0255	0.0252	102	101	49.1-157			1.22	20
1,2,3-Trichloropropane	0.0250	0.0239	0.0234	95.8	93.8	74.9-124			2.11	20
1,2,3-Trimethylbenzene	0.0250	0.0252	0.0254	101	102	79.9-118			0.610	20
1,2,4-Trimethylbenzene	0.0250	0.0242	0.0247	96.8	98.7	79.0-122			1.96	20
1,3,5-Trimethylbenzene	0.0250	0.0243	0.0250	97.1	100	81.0-123			3.11	20
Vinyl chloride	0.0250	0.0278	0.0270	111	108	61.5-134			3.20	20
Xylenes, Total	0.0750	0.0764	0.0775	102	103	79.2-122			1.42	20
(S) Toluene-d8				*101*	*101*	*90.0-115*				
(S) Dibromofluoromethane				*95.2*	*93.9*	*79.0-121*				
(S) 4-Bromofluorobenzene				*90.5*	*92.6*	*80.1-120*				

L803320-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/01/15 14:01 • (MS) 12/01/15 11:54 • (MSD) 12/01/15 12:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00195	0.127	0.125	99.7	98.1	1	25.0-156			1.53	21.5
Acrolein	0.125	ND	0.139	0.145	111	116	1	34.0-194			4.17	21.5
Acrylonitrile	0.125	ND	0.146	0.151	117	121	1	55.9-161			3.81	20
Benzene	0.0250	ND	0.0264	0.0266	106	106	1	58.6-133			0.880	20
Bromobenzene	0.0250	ND	0.0240	0.0255	96.1	102	1	70.6-125			5.83	20
Bromodichloromethane	0.0250	ND	0.0254	0.0256	101	102	1	69.2-127			1.02	20
Bromoform	0.0250	ND	0.0278	0.0289	111	116	1	66.3-140			4.14	20
Bromomethane	0.0250	ND	0.0264	0.0270	106	108	1	16.6-183			2.21	20.5
n-Butylbenzene	0.0250	ND	0.0259	0.0265	104	106	1	64.8-145			2.42	20
sec-Butylbenzene	0.0250	ND	0.0250	0.0259	100	104	1	66.8-139			3.59	20
tert-Butylbenzene	0.0250	ND	0.0252	0.0267	101	107	1	67.1-138			5.76	20
Carbon tetrachloride	0.0250	ND	0.0268	0.0275	107	110	1	60.6-139			2.45	20
Chlorobenzene	0.0250	ND	0.0248	0.0261	99.3	104	1	70.1-130			4.81	20
Chlorodibromomethane	0.0250	ND	0.0255	0.0269	102	108	1	71.6-132			5.28	20
Chloroethane	0.0250	ND	0.0262	0.0266	105	106	1	33.3-155			1.75	20
2-Chloroethyl vinyl ether	0.125	ND	0.123	0.0876	98.1	70.1	1	5.00-149			33.3	40
Chloroform	0.0250	ND	0.0253	0.0256	101	102	1	66.1-133			0.850	20
Chloromethane	0.0250	ND	0.0275	0.0293	110	117	1	40.7-139			6.30	20
2-Chlorotoluene	0.0250	ND	0.0253	0.0269	101	108	1	66.9-134			6.22	20
4-Chlorotoluene	0.0250	ND	0.0247	0.0261	98.9	104	1	66.8-134			5.34	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0222	0.0251	88.9	100	1	63.9-142			12.0	20.2
1,2-Dibromoethane	0.0250	ND	0.0248	0.0261	99.1	104	1	73.8-131			5.00	20
Dibromomethane	0.0250	ND	0.0263	0.0264	105	105	1	72.8-127			0.170	20
1,2-Dichlorobenzene	0.0250	ND	0.0259	0.0269	104	108	1	77.4-127			3.66	20
1,3-Dichlorobenzene	0.0250	ND	0.0254	0.0266	102	106	1	67.9-136			4.65	20
1,4-Dichlorobenzene	0.0250	ND	0.0245	0.0251	98.0	100	1	74.4-123			2.41	20
Dichlorodifluoromethane	0.0250	ND	0.0226	0.0238	90.5	95.4	1	42.2-146			5.19	20
1,1-Dichloroethane	0.0250	ND	0.0269	0.0277	108	111	1	64.0-134			2.79	20
1,2-Dichloroethane	0.0250	ND	0.0232	0.0236	92.6	94.5	1	60.7-132			2.01	20
1,1-Dichloroethene	0.0250	ND	0.0252	0.0260	101	104	1	48.8-144			3.17	20
cis-1,2-Dichloroethene	0.0250	ND	0.0257	0.0259	103	103	1	60.6-136			0.630	20
trans-1,2-Dichloroethene	0.0250	ND	0.0253	0.0258	101	103	1	61.0-132			2.19	20
1,2-Dichloropropane	0.0250	ND	0.0293	0.0302	117	121	1	69.7-130			2.99	20
1,1-Dichloropropene	0.0250	ND	0.0265	0.0270	106	108	1	61.5-136			1.72	20
1,3-Dichloropropane	0.0250	ND	0.0247	0.0257	98.9	103	1	74.3-123			4.06	20
cis-1,3-Dichloropropene	0.0250	ND	0.0286	0.0293	114	117	1	71.1-129			2.35	20

L803320-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/01/15 14:01 • (MS) 12/01/15 11:54 • (MSD) 12/01/15 12:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0271	0.0275	108	110	1	66.3-136			1.49	20
2,2-Dichloropropane	0.0250	ND	0.0274	0.0293	110	117	1	54.9-142			6.62	20
Di-isopropyl ether	0.0250	ND	0.0306	0.0321	123	128	1	59.9-140			4.48	20
Ethylbenzene	0.0250	ND	0.0254	0.0268	102	107	1	62.7-136			5.14	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0243	0.0259	97.2	103	1	61.1-144			6.19	20.1
Isopropylbenzene	0.0250	ND	0.0251	0.0263	100	105	1	67.4-136			4.79	20
p-Isopropyltoluene	0.0250	ND	0.0254	0.0266	102	106	1	62.8-143			4.45	20
2-Butanone (MEK)	0.125	0.000870	0.152	0.152	121	121	1	45.0-156			0.180	20.8
Methylene Chloride	0.0250	ND	0.0220	0.0224	87.9	89.7	1	61.5-125			2.12	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.134	0.136	107	109	1	60.7-150			2.00	20
Methyl tert-butyl ether	0.0250	ND	0.0234	0.0239	93.8	95.8	1	61.4-136			2.12	20
Naphthalene	0.0250	ND	0.0214	0.0236	85.6	94.2	1	61.8-143			9.58	20
n-Propylbenzene	0.0250	ND	0.0250	0.0264	99.8	105	1	63.2-139			5.45	20
Styrene	0.0250	ND	0.0226	0.0238	90.5	95.3	1	68.2-133			5.20	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0253	0.0269	101	108	1	70.5-132			6.27	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0247	0.0256	98.7	102	1	64.9-145			3.47	20
Tetrachloroethene	0.0250	ND	0.0267	0.0279	107	112	1	57.4-141			4.41	20
Toluene	0.0250	0.000496	0.0262	0.0270	103	106	1	67.8-124			3.34	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0264	0.0271	106	108	1	53.7-150			2.64	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0232	0.0246	92.7	98.6	1	65.7-143			6.07	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0249	0.0263	99.6	105	1	67.0-146			5.52	20
1,1,1-Trichloroethane	0.0250	ND	0.0248	0.0257	99.2	103	1	58.7-134			3.54	20
1,1,2-Trichloroethane	0.0250	ND	0.0239	0.0255	95.6	102	1	74.1-130			6.64	20
Trichloroethene	0.0250	ND	0.0271	0.0276	108	111	1	48.9-148			2.04	20
Trichlorofluoromethane	0.0250	ND	0.0251	0.0263	101	105	1	39.9-165			4.45	20
1,2,3-Trichloropropane	0.0250	ND	0.0238	0.0246	95.1	98.3	1	71.5-134			3.28	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0249	0.0255	99.5	102	1	62.7-133			2.52	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0246	0.0259	98.2	103	1	60.5-137			5.20	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0249	0.0262	99.8	105	1	67.9-134			4.85	20
Vinyl chloride	0.0250	ND	0.0256	0.0268	102	107	1	44.3-143			4.53	20
Xylenes, Total	0.0750	ND	0.0758	0.0797	101	106	1	65.6-133			5.13	20
(S) Toluene-d8					*102*	*103*		*90.0-115*				
(S) Dibromofluoromethane					*95.6*	*95.5*		*79.0-121*				
(S) 4-Bromofluorobenzene					*91.5*	*94.8*		*80.1-120*				

Method Blank (MB)

(MB) 11/25/15 03:26

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acenaphthene	ND		0.00100
Acenaphthylene	ND		0.00100
Anthracene	ND		0.00100
Benzidine	ND		0.0100
Benzo(a)anthracene	ND		0.00100
Benzo(b)fluoranthene	ND		0.00100
Benzo(k)fluoranthene	ND		0.00100
Benzo(g,h,i)perylene	ND		0.00100
Benzo(a)pyrene	ND		0.00100
Bis(2-chlorethoxy)methane	ND		0.0100
Bis(2-chloroethyl)ether	ND		0.0100
Bis(2-chloroisopropyl)ether	ND		0.0100
4-Bromophenyl-phenylether	ND		0.0100
2-Chloronaphthalene	ND		0.00100
4-Chlorophenyl-phenylether	ND		0.0100
Chrysene	ND		0.00100
Dibenz(a,h)anthracene	ND		0.00100
3,3-Dichlorobenzidine	ND		0.0100
2,4-Dinitrotoluene	ND		0.0100
2,6-Dinitrotoluene	ND		0.0100
Fluoranthene	ND		0.00100
Fluorene	ND		0.00100
Hexachlorobenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.0100
Hexachlorocyclopentadiene	ND		0.0100
Hexachloroethane	ND		0.0100
Indeno(1,2,3-cd)pyrene	ND		0.00100
Isophorone	ND		0.0100
Naphthalene	ND		0.00100
Nitrobenzene	ND		0.0100
n-Nitrosodimethylamine	ND		0.0100
n-Nitrosodiphenylamine	ND		0.0100
n-Nitrosodi-n-propylamine	ND		0.0100
Phenanthrene	ND		0.00100
Benzylbutyl phthalate	ND		0.00300
Bis(2-ethylhexyl)phthalate	ND		0.00300

Method Blank (MB)

(MB) 11/25/15 03:26

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Di-n-butyl phthalate	ND		0.00300
Diethyl phthalate	ND		0.00300
Dimethyl phthalate	ND		0.00300
Di-n-octyl phthalate	ND		0.00300
Pyrene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.0100
4-Chloro-3-methylphenol	ND		0.0100
2-Chlorophenol	ND		0.0100
2,4-Dichlorophenol	ND		0.0100
2,4-Dimethylphenol	ND		0.0100
4,6-Dinitro-2-methylphenol	ND		0.0100
2,4-Dinitrophenol	ND		0.0100
2-Nitrophenol	ND		0.0100
4-Nitrophenol	ND		0.0100
Pentachlorophenol	ND		0.0100
Phenol	ND		0.0100
2,4,6-Trichlorophenol	ND		0.0100
(S) Nitrobenzene-d5	*61.2*		*21.8-123*
(S) 2-Fluorobiphenyl	*64.1*		*29.5-131*
(S) p-Terphenyl-d14	*77.0*		*29.3-137*
(S) Phenol-d5	*28.6*		*5.00-70.1*
(S) 2-Fluorophenol	*45.0*		*10.0-77.9*
(S) 2,4,6-Tribromophenol	*59.9*		*11.2-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 02:40 • (LCSD) 11/25/15 03:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	0.0333	0.0309	66.5	61.8	38.7-109			7.28	21.5
Acenaphthylene	0.0500	0.0335	0.0316	67.1	63.1	36.0-106			6.09	21
Anthracene	0.0500	0.0337	0.0319	67.4	63.8	43.6-113			5.59	18.8
Benzidine	0.0500	0.0180	0.0269	36.0	53.9	10.0-165			39.8	40
Benzo(a)anthracene	0.0500	0.0350	0.0328	70.1	65.6	51.2-112			6.54	20
Benzo(b)fluoranthene	0.0500	0.0338	0.0332	67.6	66.3	47.6-111			1.94	20
Benzo(k)fluoranthene	0.0500	0.0330	0.0312	66.0	62.4	49.4-114			5.64	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 02:40 • (LCSD) 11/25/15 03:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.0500	0.0368	0.0339	73.6	67.8	45.2-117			8.15	20
Benzo(a)pyrene	0.0500	0.0337	0.0324	67.4	64.7	45.6-106			3.99	20
Bis(2-chlorethoxy)methane	0.0500	0.0325	0.0300	65.1	60.0	37.2-111			8.13	24.1
Bis(2-chloroethyl)ether	0.0500	0.0318	0.0300	63.6	60.0	22.6-108			5.89	27.9
Bis(2-chloroisopropyl)ether	0.0500	0.0345	0.0318	68.9	63.5	32.9-100			8.16	25.1
4-Bromophenyl-phenylether	0.0500	0.0351	0.0329	70.1	65.7	40.7-116			6.45	21
2-Chloronaphthalene	0.0500	0.0333	0.0306	66.6	61.1	33.6-105			8.63	23
4-Chlorophenyl-phenylether	0.0500	0.0325	0.0312	65.0	62.3	39.0-113			4.19	20.9
Chrysene	0.0500	0.0337	0.0321	67.5	64.2	54.6-120			5.04	20
Dibenz(a,h)anthracene	0.0500	0.0357	0.0331	71.4	66.3	42.8-118			7.47	20
3,3-Dichlorobenzidine	0.0500	0.0350	0.0348	69.9	69.7	27.2-142			0.360	22.3
2,4-Dinitrotoluene	0.0500	0.0369	0.0351	73.9	70.2	31.2-105			5.11	22
2,6-Dinitrotoluene	0.0500	0.0366	0.0338	73.2	67.6	30.6-106			7.98	23.1
Fluoranthene	0.0500	0.0359	0.0327	71.8	65.4	45.9-115			9.45	20
Fluorene	0.0500	0.0337	0.0309	67.4	61.8	41.0-112			8.77	20.2
Hexachlorobenzene	0.0500	0.0352	0.0342	70.3	68.3	38.5-116			2.91	20.1
Hexachloro-1,3-butadiene	0.0500	0.0284	0.0272	56.7	54.4	16.1-104			4.27	31.2
Hexachlorocyclopentadiene	0.0500	0.0184	0.0178	36.8	35.6	10.0-121			3.22	27.9
Hexachloroethane	0.0500	0.0284	0.0272	56.8	54.5	16.5-89.8			4.20	30.7
Indeno(1,2,3-cd)pyrene	0.0500	0.0375	0.0341	74.9	68.2	45.0-116			9.44	20
Isophorone	0.0500	0.0354	0.0327	70.8	65.5	35.4-112			7.87	21.5
Naphthalene	0.0500	0.0305	0.0285	60.9	57.0	32.2-101			6.65	23.8
Nitrobenzene	0.0500	0.0338	0.0323	67.7	64.6	31.4-106			4.67	25.7
n-Nitrosodimethylamine	0.0500	0.00788	0.0150	15.8	29.9	10.0-80.1		J3	62.0	37.5
n-Nitrosodiphenylamine	0.0500	0.0329	0.0313	65.7	62.7	44.4-113			4.75	20
n-Nitrosodi-n-propylamine	0.0500	0.0135	0.0319	27.0	63.8	33.2-106	J4	J3	81.2	23.7
Phenanthrene	0.0500	0.0323	0.0308	64.6	61.5	46.4-113			4.88	20
Benzylbutyl phthalate	0.0500	0.0374	0.0349	74.9	69.8	31.8-123			7.03	20.7
Bis(2-ethylhexyl)phthalate	0.0500	0.0361	0.0340	72.2	68.0	36.9-134			5.96	23.6
Di-n-butyl phthalate	0.0500	0.0368	0.0337	73.6	67.5	41.8-120			8.65	20.2
Diethyl phthalate	0.0500	0.0365	0.0339	73.1	67.8	36.5-129			7.52	20
Dimethyl phthalate	0.0500	0.0346	0.0326	69.2	65.1	35.3-128			6.10	20.8
Di-n-octyl phthalate	0.0500	0.0356	0.0332	71.3	66.4	39.7-112			7.05	21.1
Pyrene	0.0500	0.0353	0.0327	70.6	65.4	46.3-117			7.63	20
1,2,4-Trichlorobenzene	0.0500	0.0293	0.0275	58.6	55.1	22.9-96.1			6.16	27.5
4-Chloro-3-methylphenol	0.0500	0.0365	0.0327	73.1	65.5	35.7-100			11.0	22.9

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 02:40 • (LCSD) 11/25/15 03:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.0500	0.0312	0.0298	62.4	59.7	26.2-91.5			4.46	26.5
2,4-Dichlorophenol	0.0500	0.0345	0.0329	68.9	65.9	31.4-103			4.57	24.9
2,4-Dimethylphenol	0.0500	0.0321	0.0315	64.1	63.1	31.9-107			1.65	25.7
4,6-Dinitro-2-methylphenol	0.0500	0.0323	0.0327	64.6	65.4	18.4-148			1.18	24.4
2,4-Dinitrophenol	0.0500	0.0206	0.0213	41.3	42.5	24.2-128			2.98	20.5
2-Nitrophenol	0.0500	0.0364	0.0333	72.7	66.7	25.9-106			8.67	26.9
4-Nitrophenol	0.0500	0.0163	0.0153	32.6	30.5	10.0-52.7			6.75	40
Pentachlorophenol	0.0500	0.0326	0.0304	65.2	60.8	10.0-97.4			6.95	35.1
Phenol	0.0500	0.0151	0.0155	30.1	31.1	10.0-57.9			3.03	35
2,4,6-Trichlorophenol	0.0500	0.0348	0.0326	69.5	65.2	29.8-107			6.33	24.1
(S) Nitrobenzene-d5				*65.2*	*58.6*	*21.8-123*				
(S) 2-Fluorobiphenyl				*63.0*	*58.3*	*29.5-131*				
(S) p-Terphenyl-d14				*74.2*	*67.6*	*29.3-137*				
(S) Phenol-d5				*28.4*	*28.3*	*5.00-70.1*				
(S) 2-Fluorophenol				*41.7*	*44.1*	*10.0-77.9*				
(S) 2,4,6-Tribromophenol				*68.8*	*63.5*	*11.2-130*				

Method Blank (MB)

(MB) 11/25/15 13:58

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acenaphthene	ND		0.00100
Acenaphthylene	ND		0.00100
Anthracene	ND		0.00100
Benzidine	ND		0.0100
Benzo(a)anthracene	ND		0.00100
Benzo(b)fluoranthene	ND		0.00100
Benzo(k)fluoranthene	ND		0.00100
Benzo(g,h,i)perylene	ND		0.00100
Benzo(a)pyrene	ND		0.00100
Bis(2-chlorethoxy)methane	ND		0.0100
Bis(2-chloroethyl)ether	ND		0.0100
Bis(2-chloroisopropyl)ether	ND		0.0100
4-Bromophenyl-phenylether	ND		0.0100
2-Chloronaphthalene	ND		0.00100
4-Chlorophenyl-phenylether	ND		0.0100
Chrysene	ND		0.00100
Dibenz(a,h)anthracene	ND		0.00100
3,3-Dichlorobenzidine	ND		0.0100
2,4-Dinitrotoluene	ND		0.0100
2,6-Dinitrotoluene	ND		0.0100
Fluoranthene	ND		0.00100
Fluorene	ND		0.00100
Hexachlorobenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.0100
Hexachlorocyclopentadiene	ND		0.0100
Hexachloroethane	ND		0.0100
Indeno(1,2,3-cd)pyrene	ND		0.00100
Isophorone	ND		0.0100
Naphthalene	ND		0.00100
Nitrobenzene	ND		0.0100
n-Nitrosodimethylamine	ND		0.0100
n-Nitrosodiphenylamine	ND		0.0100
n-Nitrosodi-n-propylamine	ND		0.0100
Phenanthrene	ND		0.00100
Benzylbutyl phthalate	ND		0.00300
Bis(2-ethylhexyl)phthalate	ND		0.00300

Method Blank (MB)

(MB) 11/25/15 13:58

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Di-n-butyl phthalate	ND		0.00300
Diethyl phthalate	ND		0.00300
Dimethyl phthalate	ND		0.00300
Di-n-octyl phthalate	ND		0.00300
Pyrene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.0100
4-Chloro-3-methylphenol	ND		0.0100
2-Chlorophenol	ND		0.0100
2,4-Dichlorophenol	ND		0.0100
2,4-Dimethylphenol	ND		0.0100
4,6-Dinitro-2-methylphenol	ND		0.0100
2,4-Dinitrophenol	ND		0.0100
2-Nitrophenol	ND		0.0100
4-Nitrophenol	ND		0.0100
Pentachlorophenol	ND		0.0100
Phenol	ND		0.0100
2,4,6-Trichlorophenol	ND		0.0100
(S) Nitrobenzene-d5	*60.3*		*21.8-123*
(S) 2-Fluorobiphenyl	*64.0*		*29.5-131*
(S) p-Terphenyl-d14	*77.4*		*29.3-137*
(S) Phenol-d5	*33.8*		*5.00-70.1*
(S) 2-Fluorophenol	*44.8*		*10.0-77.9*
(S) 2,4,6-Tribromophenol	*66.2*		*11.2-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 13:12 • (LCSD) 11/25/15 13:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	0.0303	0.0292	60.5	58.4	38.7-109			3.57	21.5
Acenaphthylene	0.0500	0.0322	0.0315	64.5	62.9	36.0-106			2.41	21
Anthracene	0.0500	0.0346	0.0345	69.2	69.1	43.6-113			0.190	18.8
Benzidine	0.0500	0.0319	0.0325	63.8	65.0	10.0-165			1.83	40
Benzo(a)anthracene	0.0500	0.0334	0.0324	66.9	64.8	51.2-112			3.12	20
Benzo(b)fluoranthene	0.0500	0.0336	0.0348	67.2	69.6	47.6-111			3.53	20
Benzo(k)fluoranthene	0.0500	0.0359	0.0365	71.8	73.0	49.4-114			1.56	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 13:12 • (LCSD) 11/25/15 13:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.0500	0.0361	0.0359	72.1	71.7	45.2-117			0.550	20
Benzo(a)pyrene	0.0500	0.0341	0.0350	68.3	70.0	45.6-106			2.43	20
Bis(2-chlorethoxy)methane	0.0500	0.0318	0.0302	63.7	60.3	37.2-111			5.41	24.1
Bis(2-chloroethyl)ether	0.0500	0.0298	0.0281	59.6	56.2	22.6-108			5.76	27.9
Bis(2-chloroisopropyl)ether	0.0500	0.0347	0.0303	69.3	60.5	32.9-100			13.6	25.1
4-Bromophenyl-phenylether	0.0500	0.0330	0.0344	66.0	68.8	40.7-116			4.12	21
2-Chloronaphthalene	0.0500	0.0314	0.0305	62.8	60.9	33.6-105			3.00	23
4-Chlorophenyl-phenylether	0.0500	0.0310	0.0308	62.0	61.6	39.0-113			0.660	20.9
Chrysene	0.0500	0.0326	0.0324	65.2	64.8	54.6-120			0.610	20
Dibenz(a,h)anthracene	0.0500	0.0343	0.0354	68.7	70.8	42.8-118			2.99	20
3,3-Dichlorobenzidine	0.0500	0.0375	0.0357	74.9	71.4	27.2-142			4.78	22.3
2,4-Dinitrotoluene	0.0500	0.0376	0.0364	75.3	72.7	31.2-105			3.47	22
2,6-Dinitrotoluene	0.0500	0.0378	0.0370	75.5	74.0	30.6-106			2.02	23.1
Fluoranthene	0.0500	0.0344	0.0348	68.8	69.6	45.9-115			1.18	20
Fluorene	0.0500	0.0313	0.0315	62.6	63.1	41.0-112			0.770	20.2
Hexachlorobenzene	0.0500	0.0358	0.0364	71.6	72.8	38.5-116			1.66	20.1
Hexachloro-1,3-butadiene	0.0500	0.0269	0.0252	53.8	50.5	16.1-104			6.27	31.2
Hexachlorocyclopentadiene	0.0500	0.0155	0.0150	31.0	30.1	10.0-121			3.12	27.9
Hexachloroethane	0.0500	0.0266	0.0242	53.2	48.3	16.5-89.8			9.68	30.7
Indeno(1,2,3-cd)pyrene	0.0500	0.0358	0.0364	71.5	72.9	45.0-116			1.88	20
Isophorone	0.0500	0.0356	0.0344	71.2	68.9	35.4-112			3.38	21.5
Naphthalene	0.0500	0.0282	0.0258	56.3	51.5	32.2-101			8.86	23.8
Nitrobenzene	0.0500	0.0336	0.0306	67.1	61.2	31.4-106			9.19	25.7
n-Nitrosodimethylamine	0.0500	0.0181	0.0173	36.3	34.5	10.0-80.1			5.00	37.5
n-Nitrosodiphenylamine	0.0500	0.0336	0.0345	67.1	69.0	44.4-113			2.81	20
n-Nitrosodi-n-propylamine	0.0500	0.0294	0.0297	58.7	59.3	33.2-106			1.05	23.7
Phenanthrene	0.0500	0.0330	0.0332	66.0	66.3	46.4-113			0.440	20
Benzylbutyl phthalate	0.0500	0.0368	0.0367	73.5	73.4	31.8-123			0.150	20.7
Bis(2-ethylhexyl)phthalate	0.0500	0.0369	0.0372	73.8	74.4	36.9-134			0.750	23.6
Di-n-butyl phthalate	0.0500	0.0368	0.0370	73.6	73.9	41.8-120			0.350	20.2
Diethyl phthalate	0.0500	0.0371	0.0375	74.3	74.9	36.5-129			0.860	20
Dimethyl phthalate	0.0500	0.0367	0.0368	73.5	73.7	35.3-128			0.210	20.8
Di-n-octyl phthalate	0.0500	0.0363	0.0367	72.6	73.4	39.7-112			1.13	21.1
Pyrene	0.0500	0.0319	0.0322	63.8	64.4	46.3-117			1.02	20
1,2,4-Trichlorobenzene	0.0500	0.0270	0.0246	53.9	49.3	22.9-96.1			8.92	27.5
4-Chloro-3-methylphenol	0.0500	0.0360	0.0365	72.0	73.0	35.7-100			1.31	22.9

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 11/25/15 13:12 • (LCSD) 11/25/15 13:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.0500	0.0322	0.0298	64.4	59.7	26.2-91.5			7.60	26.5
2,4-Dichlorophenol	0.0500	0.0353	0.0331	70.6	66.2	31.4-103			6.45	24.9
2,4-Dimethylphenol	0.0500	0.0355	0.0301	70.9	60.2	31.9-107			16.3	25.7
4,6-Dinitro-2-methylphenol	0.0500	0.0383	0.0349	76.6	69.9	18.4-148			9.25	24.4
2,4-Dinitrophenol	0.0500	0.0258	0.0191	51.5	38.1	24.2-128		J3	29.9	20.5
2-Nitrophenol	0.0500	0.0365	0.0322	73.0	64.4	25.9-106			12.5	26.9
4-Nitrophenol	0.0500	0.0188	0.0171	37.6	34.3	10.0-52.7			9.07	40
Pentachlorophenol	0.0500	0.0372	0.0376	74.4	75.1	10.0-97.4			0.990	35.1
Phenol	0.0500	0.0187	0.0180	37.4	36.0	10.0-57.9			3.88	35
2,4,6-Trichlorophenol	0.0500	0.0362	0.0348	72.5	69.7	29.8-107			3.94	24.1
(S) Nitrobenzene-d5				*64.6*	*62.0*	*21.8-123*				
(S) 2-Fluorobiphenyl				*66.1*	*64.7*	*29.5-131*				
(S) p-Terphenyl-d14				*68.8*	*69.0*	*29.3-137*				
(S) Phenol-d5				*36.1*	*35.0*	*5.00-70.1*				
(S) 2-Fluorophenol				*49.2*	*47.2*	*10.0-77.9*				
(S) 2,4,6-Tribromophenol				*76.2*	*71.3*	*11.2-130*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

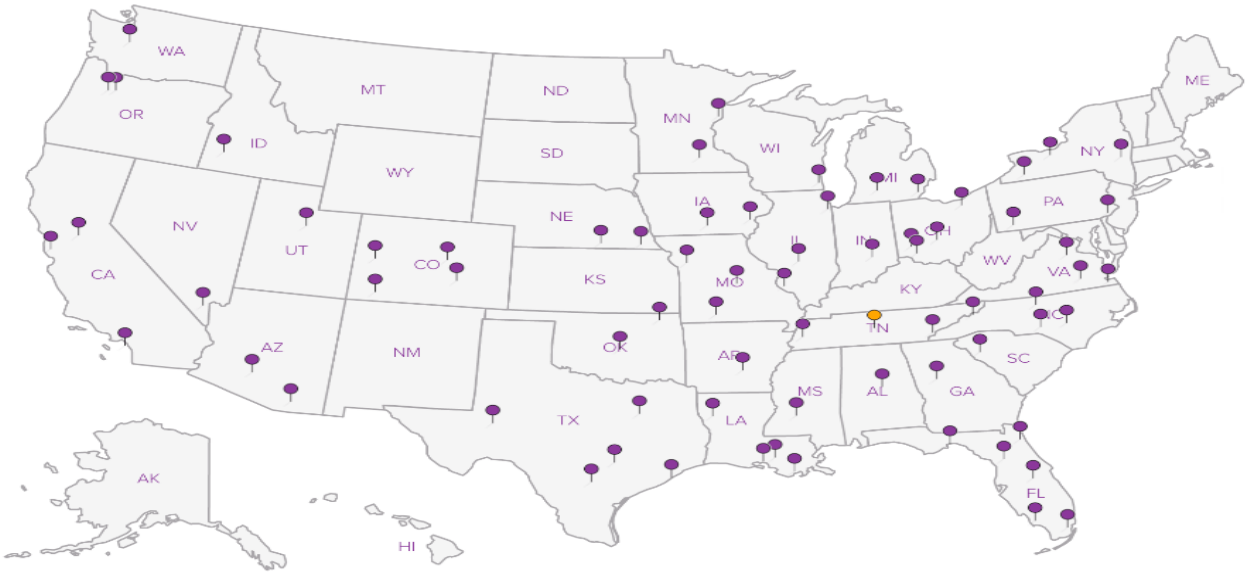
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
Withers & Ravenel Eng.
111 MacKenan Drive
Cary, NC 27511

Billing Information:
WITHRAVS - Regular
WITHRAVS-STATELEAD

Report to: Chris Fay
Email To: cfay @withersravenel.com

Project Description: franklinton Dump
City/State Collected: franklinton, NC

Phone: (919) 469-3340
Fax:
Client Project # 02100001.30
Lab Project # see above

Collected by (print): Daniel Terry
Site/Facility ID #
P.O. #

Collected by (signature): Dan
Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L802294
B233
Acctnum: see above
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8260B VOC's	8260 SIM 1,4 Dioxane	8270C SVOC's	14 metals 6020	Mercury 7471	Ammonia SM 4500	Nitrates 300	Sulfates 300			Rem./Contaminant	Sample # (lab only)
MW-1	Grab	GW	NA	11/19/15	1120	9	X	X	X	X	X	X	X	X				-01,02
MW-3					1537		X	X	X	X	X	X	X	X				-03/-04
MW-5					1355		X	X	X	X	X	X	X	X				-05/-06
MW-6					1305		X	X	X	X	X	X	X	X				-07/-08
MW-7					1255		X	X	X	X	X	X	X	X				-09/10
MW-8					1145		X	X	X	X	X	X	X	X				-11/-12 -06
Dup-GW					1400		X	X	X	X	X	X	X	X				-13/-14 -07
Trip Blank							X											-15 -08

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: NC Dre Reg LF

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Dan	11/19/15	16:45	[signature]
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
[signature]	11/19/15	17:50	[signature]

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: 2.1 °C Bottles Received: 73
Date: 11/20/15 Time: 9:00

Hold #
Condition: (lab use only) MO
COC Seal Intact: ___Y ___N ___NA
pH Checked: <2
NCF: X

801601293379

ESC Lab Sciences
Non-Conformance Form

Login #: L802294	Client: WITHRAVS	Date: 11/20/15	Evaluated by: Ryan Jones

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Couri
	Insufficient sample volume.	X	Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Received MW-9 at 11/19 at 1105 not listed on the COC.

Client informed by:		Call	x	Email		Voice Mail	x	Date: 11/20 & 11/23/15	Time: 1350
TSR Initials: jeh	Client Contact: Chris Fay/Daniel Terry								

Login Instructions: **Add MW-9 to COC and analyze.**

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EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com cinnasblab@EMSL.com

EMSL Order:	041532594
CustomerID:	WITH51
CustomerPO:	
ProjectID:	

Attn: **Mark Brown**
Withers & Ravenel
111 Mackenan Dr.
Cary, NC 27511

Phone:	(919) 460-6006
Fax:	(919) 467-6008
Received:	11/02/15 9:00 AM
Analysis Date:	11/6/2015
Collected:	10/30/2015

Project: **Franklin Dump / 02100001.30**

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling). Level B for 0.1% Target Analytical Sensitivity

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
1 *041532594-0001*	- SB - 22 6"	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
2 *041532594-0002*	- SB - 23 6"	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
3 *041532594-0003*	- SB - 23 18"	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
4 *041532594-0004*	- SB - 23 18" Dup	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.1% Chrysotile**
5 *041532594-0005*	- SB-28 6"	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
6 *041532594-0006*	- SB-28 18"	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)

Ariel Dickens (5)
Samantha Rundstorm-Cruz (1)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The test results contained within this report meet the requirements of NELAP unless otherwise specified. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 11/07/2015 01:06:17

THIS IS THE LAST PAGE OF THE REPORT.