MAUL FOSTER ALONGI
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October 25, 2019
Project No. 1839.02.02

Jay Griffith
Kell, Alterman & Runstein, L.L.P.
sent via e-mail to jgriffith@kelrun.com

Re: 2111 East Hawthorne Road, Mead, Washington: Draft Investigation Summary and Proposed Remedial Action Scope of Work

Dear Mr. Griffith:

In August 2019, Maul Foster & Alongi, Inc. (MFA) conducted a focused investigation on a portion of the property referenced above. The findings of this investigation were used to prepare a remedial action scope of work applicable to the objectives of the leasehold for discussion purposes with others (landowner, regulators, contractors).

BACKGROUND

Proposed Leasehold

The proposed leasehold area comprises approximately 20 acres of a larger property that was used for aluminum smelting and originally contained 240 acres. Within the proposed leasehold, approximately 2 acres are proposed for butane transloading and approximately 2.5 acres are planned for a mobile office trailer and associated parking (Phase 1). The existing railway would be utilized for these activities. The remaining acreage will be considered for Phase 2 expansion of laydown related to transloading of inert materials such as lumber and steel, as well as similar uses yet to be identified.

Property History

The facility is a former prebake aluminum smelter that was operated from 1942 until January 2001.[1] Until 1978, operators disposed of pot linings and scrubber sludge northwest of the facility.[2] In 1978, cyanide was detected in several private wells northwest of the facility which

[1] Kaiser Aluminum.. "Kaiser Aluminum reaches agreement to sell Mead, Washington, smelter; buyer to focus on possible restart of anode operation," news release, February 26, 2004. http://investors.kaiseraluminum.com/news-releases/news-release-details/kaiser-aluminum-reaches-agreement-sell-mead-washington-smelter (accessed September 25, 2019).
[2] USEPA. Kaiser Aluminum (Mead Works) Mead, WA. Cleanup activities. U.S. Environmental Protection Agency. https://cumulis.epa.gov/supercpad/SiteProfiles/index.cfm?fuseaction=second.cleanup&id=1000551 (accessed September 25, 2019), October 3, 2019.

promulgated addition to the National Priorities List (NPL) in 1983. Of the original 240 acres, only the approximately 30 acres northwest of the facility were included in the NPL listing (the NPL site). The NPL site is north of and does not include the proposed leasehold.

Kaiser Aluminum, the last owner to operate the facility, went bankrupt in 2002. A 2004 Consent Decree established a Custodial Trust Agreement, known as the Mead SPL Custodial Trust (the Trust), allowing the Trust to own and take title of the NPL site, carry out administrative functions, and manage and/or fund implementation of a remedial action scope of work.[3]

Since that time, numerous investigations and remedial actions have been completed. Many of these have focused on impacts to groundwater (primarily cyanide and fluoride) and the features (i.e., the pot lining pile and air scrubber sludge bed) on the NPL site northwest of the facility.

Ownership of the facility portion of the site (the Property), of which the proposed leasehold is a part, has changed hands twice since 2000; the current owner is Spokane Recycling Company, LLC.[4] Buildings and site features have been wholly or partly demolished for scrap while some features remain intact. Some unused product (i.e., materials that appear to be alumina and cryolite) and waste products (i.e., materials that appear to be air scrubber filters, sludge, coal-tar-pitch, and anode butt tailings) also remain. In contrast, some portions of the Property appear to have limited industrial use.

Regulatory Interactions

According to information obtained from interviews with regulatory personnel (Washington State Department of Ecology [Ecology] and U.S. Environmental Protection Agency [USEPA]), Ecology and the Spokane Regional Clean Air Agency recently requested USEPA assistance under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) to address conditions at the facility. The USEPA proceeded with an investigation of the Property in May 2019. The investigation report and the USEPA decision document are forthcoming.

Draft data from the May, 2019 USEPA investigation were released to the landowner, who provided the information for consideration during leasehold due diligence. In general, the

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[3] United States Bankruptcy Court for the District of Delaware. Case number 02-10429. Re: Kaiser Aluminum Corporation. Chapter 11 Order for Consent Decree issued January, 2002 with Consent Decree issued October, 2004.

[4] Ownership of portions of the original holdings, north of the NPL site, have been sold separately (excluding the stormwater retention pond, which remains in ownership by Spokane Recycling Center, LLC). These separately owned landholdings are not discussed further. The "facility portion of the site," the Property, includes tax lot parcel number 36165.9016, which comprises approximately 167 acres. The proposed leasehold area is included in the Property; south of the NPL site, on land owned by Spokane Recycling Company, LLC.

primary constituents likely to be highlighted through the USEPA investigation findings are polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and asbestos, with cyanide, fluoride, petroleum hydrocarbons, and metals (and a few others) also being noteworthy. The USEPA investigation appears to have focused in and among the former facility buildings, in addition to media through the catch basin to the stormwater-retention-pond-to-creek pathway. Samples were collected from building materials, product, sediment, surface water, and soil. The USEPA investigation does not appear to have included sample collection from the proposed leasehold area.

The Property has a general industrial stormwater permit overseen by Ecology (National Pollutant Discharge Elimination System permit WAR304975). Violations and penalties were noted in Ecology's database.[5] The most recent of these is a non-reporting violation from May 2019.

INVESTIGATION SUMMARY

Overview

On August 14, 2019, MFA conducted a focused investigation of the proposed leasehold area in order to establish baseline environmental conditions. Investigation activities included advancement of soil borings for sample collection at depth, discrete soil/material sampling, and composite soil sampling.

Field Activities

Before field activities began, MFA coordinated with public and private utility-locating companies to identify subsurface utilities in boring location areas. Twelve borings were advanced in the leasehold area, B1 through B12 (see the attached figure). Each boring was logged by a registered geologist, using the Unified Soil Classification System. Boring logs are included as Attachment A. Soil from each boring was also screened with a photoionization detector to detect the presence of volatile constituents (e.g. benzene) that may be present in the subsurface. Soil samples were collected from each boring and submitted for laboratory analysis. The sample collection depth and analytical suite for each boring was chosen based on the known historical use of the area and on field observations.

Eight composite soil samples were also collected in the leasehold area. Soil samples were composited using a modified incremental sampling methodology (ISM) to estimate the approximate average concentration of specific analytes in a decision unit (DU). The leasehold area was divided into eight DUs based on the historical use, size, and proposed leasehold

[5] Ecology. Water quality permitting and reporting information system. Facility summary. Washington State Department of Ecology..https://apps.ecology.wa.gov/paris/FacilitySummary.aspx?FacilityId=24586 (accessed September 30, 2019), October 3, 2019.

operation phase (figure). Approximately 36 aliquots of approximately equal volume were collected at random, across the surface (0 to 4 inches below ground surface [bgs]) of each DU and thoroughly homogenized prior to submittal to the laboratory for analysis. A sample was collected in triplicate from DU3B to assess repeatability and quality control.

Three discrete soil samples (SS-1, SS-2, and SS-3) were also collected for laboratory analysis. These samples were collected from materials representative of product or waste (i.e., potential cryolite, scrubber sludge, and a dark waste product; see the figure for locations).

Since groundwater was not encountered during the investigation, no groundwater samples were collected.

Analytical Work

Following standard chain-of-custody protocols, soil samples were submitted to LabCor in Portland, Oregon (asbestos analysis only) and Pace Analytical in Mount Juliet, Tennessee, for laboratory analysis. Samples were analyzed for the primary contaminants of potential concern, which include asbestos, cyanide, fluoride, metals, PAHs, and PCBs. Samples from historical petroleum-storage areas were also analyzed for diesel-range organics, gasoline-range organics, and volatile organic compounds.

Analytical results are included in Tables 1 and 2. Certified laboratory reports are included as Attachment B. A data validation memorandum is provided as Attachment C. The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

Conceptual Site Model and Proposed Actions Associated with Selection of Screening Levels

The conceptual site model was refined for the potential leasehold, with proposed actions to control operational-area pathways as follows:

- Stormwater in much of the leasehold infiltrates into pervious ground. Catch basins tied to the on-site stormwater system are present in DU5A. What appear to be four dry wells are present in the parking lot of DU4, and a sump is present in the shed of DU1.
  - Catch basins tied to the on-site stormwater system within the leasehold will be blocked and water allowed to infiltrate. The sump will be blocked or cleaned and inspected before use. it is proposed that the dry wells in the parking lot be cleaned out. Landowner registration of these features with state or local authorities is recommended as applicable.
- Shallow groundwater is recognized to be impacted. A treatment system has been proposed for installation at the NPL site, north of the Property. A water system

utilizing a deeper aquifer may be available for future leasehold use, and sampling will be conducted to confirm quality.

- Occupational receptors are expected to traverse the proposed leasehold in vehicles (e.g., trucks, train, forklifts) or on foot. Road paving and/or the addition of gravel to limit tracking off site and direct contact are proposed.
- A terrestrial ecological evaluation has not been conducted in relation to the leasehold. It is assumed that the landowner will discuss institutional controls with regulatory agencies as part of the CERCLA process.
- The Property is industrial in use. The proposed use of the leasehold is industrial.

Based on the considerations noted above, the primary pathway of concern for the leasehold is occupational receptors' direct contact with soil (i.e., dermal contact, ingestion, inhalation). The Model Toxics Control Act (MTCA) Method A Industrial screening levels in Ecology's Cleanup Levels and Risk Calculations dataset are used for discussion purposes in this document, although regulator weigh-in on the use of Method C for this site is warranted.

For demonstrative purposes, cyanide and fluoride have also been compared to the soil cleanup levels proposed for the adjacent NPL site in the 2019 Interim Action Work Plan of 1 milligram per kilogram (mg/kg) and 2,884 mg/kg for free cyanide and fluoride, respectively.[6] These values are noted to be protective of groundwater.

FINDINGS

The only screening level exceedances (Method A Industrial) in ISM samples of surface soil are for carcinogenic PAHs (cPAHs), (includes benzo[a]pyrene). cPAHs were identified above the screening level in all DUs except DU3B. cPAHs also exceeded the screening level in two discrete samples from DU5B, one from 1 foot bgs at boring B7 and one from a surface grab sample at SS1 (B7 was in an area with visual presence of a dark material [possibly coke], and SS1 was targeted this waste product directly).

Diesel and residual-range-oil organics slightly exceeded the Method A Industrial screening levels in one discrete sample, collected from boring B10 at 3.5 feet bgs, in the area of the former Bunker C or diesel aboveground storage tanks (ASTs). The sample was collected from a thin layer of visible discoloration at depth and near piping. Based on location and small lateral extent of the layer, this appears to be a localized condition.

[6] Interim Action Workplan, Kaiser Mead NPL Site, Prepared for Mead Custodial Trust by Hydrometrics, April, 2019.

Soil samples containing cyanide were assessed for weak acid dissociable fraction (includes the free cyanide) concentrations of more than 1 mg/kg. Of these, only one sample, the ISM surface sample from DU5B, appears to have the potential to contain free cyanide above 1 mg/kg.

Fluoride concentrations in soil did not exceed the cleanup level proposed for the NPL site in any samples collected during this investigation.

PCBs (Aroclors 1248 and 1268) were detected in soil, largely surface or shallow soil (to 2 feet bgs). No exceedances of the Method A Industrial screening level for PCBs were observed.

Asbestos in soil was evaluated, with only one sample containing a trace (<1%) of asbestos fibers. The sample was collected from a discrete sample location near the former Bunker C AST area, which is also near a building materials stockpile (off leasehold).

Proposed Remedial Actions for Discussion

In order to facilitate leasehold operation, while taking adequate measures to protect human health and the environment and avoid exacerbating current conditions, the following actions are proposed for purposes of discussion with the landowner and regulatory agencies:

- Catch basins tied to the on-site stormwater system in the leasehold area will be blocked and water allowed to infiltrate (some regrading may be needed to engineer this solution).
- The sump located in the storage shed will be blocked or cleaned and inspected before use.
- The dry wells in the parking lot will be cleaned and inspected before use.
- Surfaces where vehicular traffic is expected, as part of routine leasehold operations, will be paved or graveled to limit tracking of material off site.
- As phased development of the leasehold takes place, operational areas shown to contain surface soil concentrations in excess of MTCA Method A Industrial screening levels (or Method C Industrial if approved by Ecology) will be capped with 6 inches of gravel before routine use.
- A contaminated media management plan will be prepared for use by contractors conducting soil-disturbing activities on the leasehold (will include a health and safety program developed according to 29 CFR 1910.120, including Hazardous Waste Operations and Emergency Response training).

We are available to discuss these findings and recommendations with you and/or stakeholders as requested.

Sincerely,

Maul Foster & Alongi, Inc.

Caitlin Bryan
Senior Environmental Scientist

Ted Wall, PE
Principal Engineer

Attachments: Limitations
Tables
Figure
A—Boring Logs
B—Laboratory Reports
C—Data Validation Memorandum

cc: Peter Howe

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

TABLES

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Table 1
Soil Analytical Results
2111 East Hawthorne Rd.
Mead, WA 99213

Location	MTCA A 2019	MTCA C 2019	B1		B2		B3		B4		B5	
Sample Name			B1-S-081419-1.0	B1-S-081419-4.0	B2-S-081419-1.0	B2-S-081419-4.0	B3-S-081419-1.0	B3-S-081419-4.0	B4-S-081419-1.0	B4-S-081419-4.0	B5-S-081419-1.0	B5-S-081419-4.0
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019
Collection Depth (ft bgs)			1[a]	4	1[a]	4	1[a]	4	1	4	1[a]	4
TPH (mg/kg)												
Gasoline-Range Organics	30[b]	NV	--	--	--	--	--	--	--	--	--	--
Diesel-Range Organics	2,000	NV	--	--	--	--	--	--	--	--	--	--
Residual-Oil-Range Organics	2,000	NV	--	--	--	--	--	--	--	--	--	--
Total Metals (mg/kg)												
Arsenic	20	88	14.2	6.77	16.5	10.9	13.1	12	19	12.3	10.4	11.6
Cadmium	NV	3,500	0.0724 U	0.0722 U	0.0737 U	0.0725 U	0.0721 U	0.0723 U	0.0739 U	0.0737 U	0.0732 U	0.0749 U
Chromium	2,000[c]	5,300,000[c]	13.9	9.2	14.3	11.9	11.6	10.4 J	12.4	16.4	12.7	13.3
Lead	1,000	NV	24.9	6.3	10.9	7.47	9.25	7.36	10.4	7.79	8.67	8.78
Chromium (Hexavalent)	19	11,000	--	--	--	--	--	--	--	--	--	--
Cyanide (mg/kg)												
Total Cyanide	NV	2,200	0.0404 U	0.0402 U	0.0411 U	0.0404 U	0.0402 U	0.0403 U	0.0412 U	0.0411 U	0.0408 U	0.0417 U
Cyanide, WAD	NV	2,200	--	--	--	--	--	--	--	--	--	--
Anions (mg/kg)												
Fluoride	NV	210,000	29.3	4.45	20.8 J	6.31	16.1	4.4	18.5	12.4	9.49	11.9
PCBs (mg/kg)												
Aroclor 1016	NV	250	0.00362 U	0.00361 U	0.00369 U	0.00363 U	0.00361 U	0.00362 U	0.0037 U	0.00369 U	0.00366 U	0.00374 U
Aroclor 1221	NV	NV	0.00556 U	0.00554 U	0.00565 U	0.00556 U	0.00553 U	0.00555 U	0.00567 U	0.00566 U	0.00562 U	0.00574 U
Aroclor 1232	NV	NV	0.00432 U	0.0043 U	0.00439 U	0.00432 U	0.0043 U	0.00431 U	0.0044 U	0.00439 U	0.00436 U	0.00446 U
Aroclor 1242	NV	NV	0.00329 U	0.00328 U	0.00335 U	0.00329 U	0.00328 U	0.00329 U	0.00336 U	0.00335 U	0.00333 U	0.0034 U
Aroclor 1248	NV	NV	0.0481	0.00325 U	0.00332 U	0.00326 U	4.25	0.00325 U	0.00333 U	0.00332 U	0.0033 U	0.00337 U
Aroclor 1254	NV	66	0.00488 U	0.00487 U	0.00497 U	0.00489 U	0.00486 U	0.00488 U	0.00498 U	0.00497 U	0.00494 U	0.00505 U
Aroclor 1260	NV	66	0.00511 U	0.00509 U	0.0052 U	0.00512 U	0.00509 U	0.0051 U	0.00522 U	0.0052 U	0.00517 U	0.00528 U
Aroclor 1268	NV	NV	0.00188 U	0.00188 U	0.00192 U	0.00189 U	0.00188 U	0.00188 U	0.00192 U	0.00192 U	0.00822 J	0.00195 U
Total PCBs (ND=0)	10	66	0.0481	0.00554 U	0.00565 U	0.00556 U	4.25	0.00555 U	0.00567 U	0.00566 U	0.00822 J	0.00574 U
PAHs (mg/kg)												
1-Methylnaphthalene	NV	4,500	0.0021 J	0.00206 U	0.00211 U	0.00207 U	0.00206 U	0.00207 U	0.00211 U	0.00211 U	0.00209 U	0.00214 U
2-Chloronaphthalene	NV	280,000	0.00207 U	0.00206 U	0.00211 U	0.00207 U	0.00206 U	0.00207 U	0.00211 U	0.00211 U	0.00209 U	0.00214 U
2-Methylnaphthalene	NV	14,000	0.00333 J	0.00206 U	0.00211 U	0.00207 U	0.00206 U	0.00207 U	0.00211 U	0.00211 U	0.00209 U	0.00214 U
Acenaphthene	NV	210,000	0.00216 J	0.000619 U	0.000632 U	0.000622 U	0.000758 J	0.00062 U	0.000634 U	0.000632 U	0.00483 J	0.000642 U
Acenaphthylene	NV	NV	0.000621 U	0.000619 U	0.000632 U	0.000622 U	0.000618 U	0.00062 U	0.000634 U	0.000632 U	0.000628 U	0.000642 U
Anthracene	NV	1,100,000	0.00526 J	0.000619 U	0.000632 U	0.000622 U	0.00164 J	0.00062 U	0.000634 U	0.000632 U	0.00637	0.000642 U
Benzo(a)anthracene	NV	NV	0.0224	0.000619 U	0.000632 U	0.000622 U	0.0138	0.00062 U	0.00396 J	0.000632 U	0.0685	0.000642 U
Benzo(a)pyrene	2	130	0.036	0.000619 U	0.000632 U	0.000622 U	0.021	0.00062 U	0.005 J	0.000632 U	0.0831	0.000642 U
Benzo(b)fluoranthene	NV	NV	0.0559	0.000619 U	0.000771 J	0.000622 U	0.0303	0.00062 U	0.00742	0.000632 U	0.11	0.000642 U
Benzo(ghi)perylene	NV	NV	0.0467	0.000619 U	0.000777 J	0.000622 U	0.0264	0.00062 U	0.00448 J	0.000632 U	0.0722	0.000642 U
Benzo(k)fluoranthene	NV	NV	0.02	0.000619 U	0.000632 U	0.000622 U	0.00899	0.00062 U	0.00215 J	0.000632 U	0.0396	0.000642 U

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Location	MTCA A 2019	MTCA C 2019	B1		B2		B3		B4		B5	
Sample Name			B1-S-081419-1.0	B1-S-081419-4.0	B2-S-081419-1.0	B2-S-081419-4.0	B3-S-081419-1.0	B3-S-081419-4.0	B4-S-081419-1.0	B4-S-081419-4.0	B5-S-081419-1.0	B5-S-081419-4.0
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019
Collection Depth (ft bgs)			1[(a)]	4	1[(a)]	4	1[(a)]	4	1	4	1[(a)]	4
Chrysene	NV	NV	0.0283	0.000619 U	0.000632 U	0.000622 U	0.0154	0.00062 U	0.00476 J	0.000632 U	0.0784	0.000642 U
Dibenzo(a,h)anthracene	NV	NV	0.0106	0.000619 U	0.000632 U	0.000622 U	0.00555 J	0.00062 U	0.00104 J	0.000632 U	0.0183	0.000642 U
Fluoranthene	NV	140,000	0.0339	0.000619 U	0.000632 U	0.000622 U	0.0201	0.00062 U	0.00507 J	0.000632 U	0.0993	0.000642 U
Fluorene	NV	140,000	0.00149 J	0.000619 U	0.000632 U	0.000622 U	0.000618 U	0.00062 U	0.000634 U	0.000632 U	0.00208 J	0.000642 U
Indeno(1,2,3-cd)pyrene	NV	NV	0.0338	0.000619 U	0.000632 U	0.000622 U	0.0175	0.00062 U	0.0035 J	0.000632 U	0.0604	0.000642 U
Naphthalene	5	70,000	0.0023 J	0.00206 U	0.00398 J	0.00207 U	0.00206 U	0.00207 U	0.00211 U	0.00211 U	0.00209 U	0.00214 U
Phenanthrene	NV	NV	0.0239	0.000619 U	0.000632 U	0.000622 U	0.00823	0.00062 U	0.00634 U	0.000632 U	0.0415	0.000642 U
Pyrene	NV	110,000	0.0359	0.000619 U	0.000632 U	0.000622 U	0.0219	0.00062 U	0.00592 J	0.000632 U	0.103	0.000642 U
cPAH TEQ[(d)]	2	130	0.0506	0.0003095 U	0.000523	0.000311 U	0.0288	0.00031 U	0.00685	0.000316 U	0.114	0.000321 U

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Mead, WA 99213

Location	MTCA A 2019	MTCA C 2019	B6		B7				B8		B9
Sample Name			B6-S-081419-1.0	B6-S-081419-4.0	B7-S-081419-1.0	B7-S-081419-2.5	B7-S-081419-4.0	B7-S-081419-7.0	B8-S-081419-2.5	B8-S-081419-9.5	B9-S-081419-2.0
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019
Collection Depth (ft bgs)			1[a]	4	1	2.5	4	7	2.5	9.5	2[a]
TPH (mg/kg)											
Gasoline-Range Organics	30[b]	NV	--	--	1.08 J	1.27 J	1.04 J	1.19 J	--	1.97 J	--
Diesel-Range Organics	2,000	NV	--	--	474 J	88.1	1.42 U	5.41	2.14 J	1.8 J	--
Residual-Oil-Range Organics	2,000	NV	--	--	1510 J	126	3.56 U	15.8	4.03 J	3.58 U	--
Total Metals (mg/kg)											
Arsenic	20	88	8.77	9.66	10.6	12.5	13	12.1	12.2	15.7	12.2
Cadmium	NV	3,500	0.0828 U	0.0723 U	0.074 U	0.0728 U	0.0748 U	0.0758 U	0.0735 U	0.0753 U	0.0716 U
Chromium	2,000[c]	5,300,000[c]	9.61	18.3	17.5	11	12.8	12.5	13.3	14.1	12.7
Lead	1,000	NV	6.67	6.28	14.3	9.73	7.76	9.65	7.31	10.8	10.2
Chromium (Hexavalent)	19	11,000	--	--	--	--	--	--	--	--	--
Cyanide (mg/kg)											
Total Cyanide	NV	2,200	0.231 J	0.0403 U	0.348	0.0406 U	0.0417 U	0.0422 U	0.041 U	1.74	0.0399 U
Cyanide, WAD	NV	2,200	--	--	--	--	--	--	--	0.275	--
Anions (mg/kg)											
Fluoride	NV	210,000	64.2	31.2	61	42.8	32.4	1.76	24.9	29.8	2.31
PCBs (mg/kg)											
Aroclor 1016	NV	250	0.00414 U	0.00362 U	0.0037 U	0.00364 U	0.00374 U	0.00379 U	0.00368 U	0.00377 U	0.00358 U
Aroclor 1221	NV	NV	0.00635 U	0.00555 U	0.00568 U	0.00559 U	0.00574 U	0.00581 U	0.00564 U	0.00578 U	0.0055 U
Aroclor 1232	NV	NV	0.00493 U	0.00431 U	0.00441 U	0.00434 U	0.00446 U	0.00452 U	0.00438 U	0.00449 U	0.00427 U
Aroclor 1242	NV	NV	0.00376 U	0.00328 U	0.00336 U	0.00331 U	0.0034 U	0.00344 U	0.00334 U	0.00342 U	0.00325 U
Aroclor 1248	NV	NV	0.0229	0.00325 U	0.273	0.00328 U	0.00337 U	0.00341 U	0.00331 U	0.00339 U	0.0198
Aroclor 1254	NV	66	0.00558 U	0.00488 U	0.00499 U	0.00491 U	0.00505 U	0.00511 U	0.00496 U	0.00508 U	0.00483 U
Aroclor 1260	NV	66	0.00584 U	0.0051 U	0.00523 U	0.0212	0.00528 U	0.00535 U	0.00519 U	0.00532 U	0.00506 U
Aroclor 1268	NV	NV	0.00303 J	0.00188 U	0.109	0.00189 U	0.00195 U	0.00197 U	0.00191 U	0.00196 U	0.00186 U
Total PCBs (ND=0)	10	66	0.02593 J	0.00555 U	0.382	0.0212	0.00574 U	0.00581 U	0.00564 U	0.00578 U	0.0198
PAHs (mg/kg)											
1-Methylnaphthalene	NV	4,500	0.00236 U	0.00207 U	0.104 J	0.00208 U	0.00214 U	0.00217 U	0.0021 U	0.00215 U	0.00205 U
2-Chloronaphthalene	NV	280,000	0.00236 U	0.00207 U	0.0423 U	0.00208 U	0.00214 U	0.00217 U	0.0021 U	0.00215 U	0.00205 U
2-Methylnaphthalene	NV	14,000	0.00236 U	0.00207 U	0.161 J	0.00208 U	0.00214 U	0.00217 U	0.0021 U	0.00215 U	0.00205 U
Acenaphthene	NV	210,000	0.000709 U	0.00062 U	1.1	0.000677 J	0.000641 U	0.00284 J	0.00409 J	0.000646 U	0.00223 J
Acenaphthylene	NV	NV	0.000709 U	0.00062 U	0.0127 U	0.000624 U	0.000641 U	0.00065 U	0.00063 U	0.000646 U	0.000614 U
Anthracene	NV	1,100,000	0.000709 U	0.00062 U	1.42	0.000624 U	0.000641 U	0.00375 J	0.0035 J	0.000646 U	0.00271 J
Benzo(a)anthracene	NV	NV	0.00266 J	0.00062 U	18.1	0.0128	0.00282 J	0.0511	0.0269	0.000646 U	0.0346
Benzo(a)pyrene	2	130	0.003 J	0.00062 U	25.2	0.0182	0.00406 J	0.079	0.0359	0.000646 U	0.0485
Benzo(b)fluoranthene	NV	NV	0.00389 J	0.00062 U	31.4	0.0265	0.00518 J	0.0991	0.0454	0.000646 U	0.0631
Benzo(ghi)perylene	NV	NV	0.00283 J	0.00062 U	21.8	0.029	0.00372 J	0.0679	0.0297	0.000646 U	0.0378
Benzo(k)fluoranthene	NV	NV	0.00138 J	0.00062 U	9.38	0.00631	0.00183 J	0.032	0.0139	0.000646 U	0.0272

Table 1
Soil Analytical Results
2111 East Hawthorne Rd.
Mead, WA 99213

Location	MTCA A 2019	MTCA C 2019	B6		B7				B8		B9
Sample Name			B6-S-081419-1.0	B6-S-081419-4.0	B7-S-081419-1.0	B7-S-081419-2.5	B7-S-081419-4.0	B7-S-081419-7.0	B8-S-081419-2.5	B8-S-081419-9.5	B9-S-081419-2.0
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019
Collection Depth (ft bgs)			1[a]	4	1	2.5	4	7	2.5	9.5	2[a]
Chrysene	NV	NV	0.00273 J	0.00062 U	21.7	0.0162	0.00342 J	0.0552	0.0319	0.000646 U	0.0457
Dibenzo(a,h)anthracene	NV	NV	0.000709 U	0.00062 U	5.35	0.00407 J	0.000641 U	0.0152	0.00624 J	0.000646 U	0.00884
Fluoranthene	NV	140,000	0.00363 J	0.00062 U	23.7	0.0181	0.00367 J	0.0742	0.0424	0.000646 U	0.06
Fluorene	NV	140,000	0.000709 U	0.00062 U	0.346	0.000624 U	0.000641 U	0.000974 J	0.00114 J	0.000646 U	0.00085 J
Indeno(1,2,3-cd)pyrene	NV	NV	0.00201 J	0.00062 U	17.9	0.0146	0.00287 J	0.0525	0.0223	0.000646 U	0.0302
Naphthalene	5	70,000	0.00236 U	0.00207 U	0.238 J	0.00208 U	0.00214 U	0.00217 U	0.0021 U	0.00215 U	0.00205 U
Phenanthrene	NV	NV	0.00709 U	0.00062 U	9.09	0.00565	0.00641 U	0.023	0.0201	0.000646 U	0.0218
Pyrene	NV	110,000	0.00397 J	0.00062 U	27.6	0.0205	0.00476 J	0.0892	0.0477	0.000683 J	0.0651
cPAH TEQ[d]	2	130	0.00406	0.00031 U	33.6	0.0248	0.0054	0.105	0.0477	0.000323 U	0.0654

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Table 1
Soil Analytical Results
2111 East Hawthorne Rd.
Mead, WA 99213

Location	MTCA A 2019	MTCA C 2019	B10			B11		B12		DU1	DU2	DU3A
Sample Name			B10-S-081419-1.0	B10-S-081419-3.5	B10-S-081419-4.0	B11-S-081419-1.0	B11-S-081419-3.0	B12-S-081419-1.0	B12-S-081419-4.0	DU1-S-081519	DU2-S-081519	DU3A-S-081519
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/15/2019	08/15/2019	08/15/2019
Collection Depth (ft bgs)			1[a]	3.5	4	1[a]	3	1	4	0.5	0.5	0.5
TPH (mg/kg)												
Gasoline-Range Organics	30[b]	NV	--	--	--	1.66 J	1.23 U	1.11 J	1.34 U	--	--	1.15 J
Diesel-Range Organics	2,000	NV	148	2,060	31 J	1.38 U	1.37 U	1.39 U	1.38 U	--	--	882
Residual-Oil-Range Organics	2,000	NV	83.3 J	2,080	45 J	3.44 U	3.44 U	3.49 U	3.46 U	--	--	590 J
Total Metals (mg/kg)												
Arsenic	20	88	9.11	--	8.97	8.83	8.05	10	10.3	12.6	9.21	10.8
Cadmium	NV	3,500	0.0722 U	--	0.0727 U	0.0724 U	0.0723 U	0.0733 U	0.0727 U	0.243 J	1.29	0.48 J
Chromium	2,000[c]	5,300,000[c]	9.64	--	11.7	8.87	10.7	7.58	9.83	26.8	84.6	27.4 J
Lead	1,000	NV	44.4	--	7.73	10.6	5.03	5.66	5.39	34.8	147	48.3 J
Chromium (Hexavalent)	19	11,000	--	--	--	--	--	--	--	0.659 U	2.4 J	0.665 U
Cyanide (mg/kg)												
Total Cyanide	NV	2,200	0.0471 J	--	0.0405 U	0.0403 U	0.0403 U	0.0408 U	0.0405 U	0.206 J	1.03	0.885
Cyanide, WAD	NV	2,200	--	--	--	--	--	--	--	--	0.123 J	--
Anions (mg/kg)												
Fluoride	NV	210,000	4.98	--	3.73	9.53	3.01	198	2.36	256	97.7	90
PCBs (mg/kg)												
Aroclor 1016	NV	250	0.00361 U	0.00368 U	0.00364 U	0.00362 U	0.00361 U	0.00366 U	0.00364 U	0.00361 U	0.0036 U	0.00364 U
Aroclor 1221	NV	NV	0.00554 U	0.00564 U	0.00558 U	0.00555 U	0.00554 U	0.00562 U	0.00558 U	0.00553 U	0.00552 U	0.00558 U
Aroclor 1232	NV	NV	0.0043 U	0.00438 U	0.00433 U	0.00431 U	0.00431 U	0.00437 U	0.00433 U	0.0043 U	0.00429 U	0.00433 U
Aroclor 1242	NV	NV	0.00328 U	0.00334 U	0.0033 U	0.00329 U	0.00328 U	0.00333 U	0.0033 U	0.00328 U	0.00327 U	0.0033 U
Aroclor 1248	NV	NV	0.00325 U	0.00331 U	0.00327 U	0.00326 U	0.00325 U	0.0033 U	0.00327 U	1.28	0.115	1.19
Aroclor 1254	NV	66	0.00487 U	0.00496 U	0.0338	0.00488 U	0.00487 U	0.00494 U	0.00491 U	0.00486 U	0.00485 U	0.0049 U
Aroclor 1260	NV	66	0.00972 J	0.00519 U	0.00513 U	0.00511 U	0.0051 U	0.00517 U	0.00513 U	0.00509 U	0.00508 U	0.00513 U
Aroclor 1268	NV	NV	0.00188 U	0.00191 U	0.00189 U	0.00188 U	0.00188 U	0.00191 U	0.00189 U	0.221	0.0752	0.132
Total PCBs (ND=0)	10	66	0.00972 J	0.00564 U	0.0338	0.00555 U	0.00554 U	0.00562 U	0.00558 U	1.501	0.1902	1.322
PAHs (mg/kg)												
1-Methylnaphthalene	NV	4,500	0.00207 J	0.0021 U	0.0132 J	0.00207 U	0.00206 U	0.00209 U	0.00208 U	0.0444 J	0.00247 J	0.22
2-Chloronaphthalene	NV	280,000	0.00206 U	0.0021 U	0.00208 U	0.00207 U	0.00206 U	0.00209 U	0.00208 U	0.0103 U	0.00206 U	0.0104 U
2-Methylnaphthalene	NV	14,000	0.00295 J	0.0021 U	0.0364	0.00207 U	0.00206 U	0.00303 J	0.00208 U	0.0534 J	0.00382 J	0.288
Acenaphthene	NV	210,000	0.00475 J	0.595	0.000624 U	0.00062 U	0.000619 U	0.00272 J	0.000624 U	0.28	0.016	0.874
Acenaphthylene	NV	NV	0.000619 U	0.00063 U	0.000624 U	0.00062 U	0.000619 U	0.00224 J	0.000624 U	0.00309 U	0.000617 U	0.00312 U
Anthracene	NV	1,100,000	0.0157	0.00063 U	0.00303 J	0.00062 U	0.000619 U	0.00585 J	0.000624 U	0.708	0.0765	2.01
Benzo(a)anthracene	NV	NV	0.0685	0.00063 U	0.0022 J	0.00062 U	0.000619 U	0.00551 J	0.000624 U	4.33	2.7	9.11
Benzo(a)pyrene	2	130	0.096	0.393	0.0027 J	0.000694 J	0.000619 U	0.0039 J	0.000624 U	4.65	1.52	9.36
Benzo(b)fluoranthene	NV	NV	0.128	0.0126 U	0.00293 J	0.000771 J	0.000619 U	0.00233 J	0.000624 U	6.72	12.1	11.5
Benzo(ghi)perylene	NV	NV	0.135	0.361	0.0286	0.00125 J	0.000619 U	0.0026 J	0.000624 U	3.51	2.65	5.38
Benzo(k)fluoranthene	NV	NV	0.0446	0.0126 U	0.000624 U	0.00062 U	0.000619 U	0.00607 J	0.000624 U	1.68	1.73	3.21

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Table 1
Soil Analytical Results
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Location	MTCA A 2019	MTCA C 2019	B10			B11		B12		DU1	DU2	DU3A
Sample Name			B10-S-081419-1.0	B10-S-081419-3.5	B10-S-081419-4.0	B11-S-081419-1.0	B11-S-081419-3.0	B12-S-081419-1.0	B12-S-081419-4.0	DU1-S-081519	DU2-S-081519	DU3A-S-081519
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/15/2019	08/15/2019	08/15/2019
Collection Depth (ft bgs)			1[(a)]	3.5	4	1[(a)]	3	1	4	0.5	0.5	0.5
Chrysene	NV	NV	0.0959	0.00063 U	0.00189 J	0.00062 U	0.000619 U	0.00786	0.000624 U	4.27	3.58	10.4
Dibenzo(a,h)anthracene	NV	NV	0.0229	0.0126 U	0.000624 U	0.000623 J	0.000619 U	0.00728	0.000624 U	0.91	1.07	1.51
Fluoranthene	NV	140,000	0.121	0.00063 U	0.00335 J	0.00062 U	0.000619 U	0.00407 J	0.000624 U	6.65	1.71	14.2
Fluorene	NV	140,000	0.000619 U	0.00063 U	0.000624 U	0.00062 U	0.000619 U	0.00373 J	0.000624 U	0.181	0.00893	0.689
Indeno(1,2,3-cd)pyrene	NV	NV	0.0767	0.129	0.00168 J	0.000673 J	0.000619 U	0.00366 J	0.000624 U	3.05	2.44	4.8
Naphthalene	5	70,000	0.00206 U	0.0021 U	0.0303	0.00207 U	0.00206 U	0.00209 U	0.00208 U	0.0681 J	0.00484 J	0.335
Phenanthrene	NV	NV	0.0447	0.405	0.00208 J	0.00062 U	0.000619 U	0.00453 J	0.000624 U	3.31	0.281	10.5
Pyrene	NV	110,000	0.14	0.00063 U	0.00864	0.000639 J	0.000619 U	0.00446 J	0.000624 U	6.09	1.4	14.5
cPAH TEQ[(d)]	2	130	0.131	0.408	0.00346	0.000966	0.0003095 U	0.00646	0.000312 U	6.36	3.56	12.5

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Table 1
Soil Analytical Results
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Location	MTCA A 2019	MTCA C 2019	DU3B			DU4	DU5A	DU5B	DU6	SS1	SS2	SS3
Sample Name			DU3B-S-081519-A	DU3B-S-081519-B	DU3B-S-081519-C	DU4-S-081519	DU5A-S-081519	DU5B-S-081519	DU6-S-081519	SS1-S-081519	SS2-S-081519	SS3-S-081519
Collection Date			08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019
Collection Depth (ft bgs)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0
TPH (mg/kg)												
Gasoline-Range Organics	30[b]	NV	--	--	--	--	--	--	--	--	--	--
Diesel-Range Organics	2,000	NV	--	--	--	--	--	--	344 J	70.8 U	--	--
Residual-Oil-Range Organics	2,000	NV	--	--	--	--	--	--	1340	227 J	--	--
Total Metals (mg/kg)												
Arsenic	20	88	5.1	6.44	8.84	2.79 J	12.3	8.88	13.7	0.49 U	6.93	2.75
Cadmium	NV	3,500	0.24 J	0.12 J	0.14 J	0.362 U	0.0715 U	0.0713 U	1.95	0.151 J	1.08	1.05
Chromium	2,000[c]	5,300,000[c]	44.1 J	42.3	37.8	5.88	21.2	13.7	16.7	3.11	16.6	1.81
Lead	1,000	NV	14.7 J	20.7	16.3	20.9	23	16.3	154	4.71	76.2	12.8
Chromium (Hexavalent)	19	11,000	0.646 U	0.645 U	0.645 U	--	0.654 U	--	--	--	--	--
Cyanide (mg/kg)												
Total Cyanide	NV	2,200	0.0433 J	0.0633 J	0.0393 U	0.0404 U	0.183 J	3.4 J	0.12 J	0.0415 U	0.0391 UJ	0.0849 J
Cyanide, WAD	NV	2,200	--	--	--	--	--	2.4	--	--	--	--
Anions (mg/kg)												
Fluoride	NV	210,000	4.42 J	31.2 J	17.6 J	0.62 J	94.7	137	701	1 J	56.7	1220
PCBs (mg/kg)												
Aroclor 1016	NV	250	0.00353 U	0.00353 U	0.00353 U	0.00362 U	0.00357 U	0.00356 U	0.00387 U	0.00373 U	--	--
Aroclor 1221	NV	NV	0.00542 U	0.00541 U	0.00541 U	0.00556 U	0.00548 U	0.00547 U	0.00593 U	0.00572 U	--	--
Aroclor 1232	NV	NV	0.00421 U	0.0042 U	0.0042 U	0.00432 U	0.00426 U	0.00425 U	0.00461 U	0.00444 U	--	--
Aroclor 1242	NV	NV	0.00321 U	0.0032 U	0.00321 U	0.00329 U	0.00325 U	0.00324 U	0.00351 U	0.00339 U	--	--
Aroclor 1248	NV	NV	0.264 J	0.809 J	0.663 J	0.0493	2.72	0.935	0.00348 U	0.00335 U	--	--
Aroclor 1254	NV	66	0.00477 U	0.00476 U	0.00476 U	0.00489 U	0.00482 U	0.00481 U	0.00522 U	0.00503 U	--	--
Aroclor 1260	NV	66	0.00499 U	0.00498 U	0.00498 U	0.00511 U	0.00504 U	0.00503 U	0.00546 U	0.00526 U	--	--
Aroclor 1268	NV	NV	0.0371 J	0.165 J	0.0435 J	0.00188 U	0.358	0.987	1.98	0.758	--	--
Total PCBs (ND=0)	10	66	0.3011 J	0.974 J	0.7065 J	0.0493	3.078	1.922	1.98	0.758	--	--
PAHs (mg/kg)												
1-Methylnaphthalene	NV	4,500	0.00202 U	0.00201 U	0.00202 U	0.00207 U	0.0874	0.145	0.119 J	0.0977	0.00858 J	0.00203 U
2-Chloronaphthalene	NV	280,000	0.00202 U	0.00201 U	0.00202 U	0.00207 U	0.00204 U	0.0102 U	0.0221 U	0.00213 U	0.00201 U	0.00203 U
2-Methylnaphthalene	NV	14,000	0.00202 U	0.00225 J	0.00211 J	0.00207 U	0.112	0.189	0.191 J	0.113	0.0102 J	0.00203 U
Acenaphthene	NV	210,000	0.00509 J	0.0202	0.0149	0.00386 J	0.612	1.49	1.62	0.818	0.0807	0.00061 U
Acenaphthylene	NV	NV	0.000606 U	0.000604 U	0.000605 U	0.000621 U	0.00348 J	0.008 J	0.00663 U	0.0142	0.00103 J	0.00061 U
Anthracene	NV	1,100,000	0.012 J	0.0401 J	0.0376 J	0.0067	0.807	1.89	2.95	1.09	0.107	0.0899
Benzo(a)anthracene	NV	NV	0.166 J	0.359 J	0.308 J	0.0506	5.41	14.4	20.2	5.69	0.71	0.172
Benzo(a)pyrene	2	130	0.204	0.352	0.364	0.0655	6.41	15.4	21.4	4.08	0.802	0.124
Benzo(b)fluoranthene	NV	NV	0.294	0.541	0.528 J	0.0931	8.28	19	29.4	7.81	1.17	0.536
Benzo(ghi)perylene	NV	NV	0.147 J	0.258 J	0.322 J	0.0555	3.47	10.1	12.8	2.51	0.622	0.242
Benzo(k)fluoranthene	NV	NV	0.0674 J	0.132 J	0.153 J	0.0322	1.81	5.8	7.13	1.27	0.412	0.0943

Table 1
Soil Analytical Results
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Location	MTCA A 2019	MTCA C 2019	DU3B			DU4	DU5A	DU5B	DU6	SS1	SS2	SS3
Sample Name			DU3B-S-081519-A	DU3B-S-081519-B	DU3B-S-081519-C	DU4-S-081519	DU5A-S-081519	DU5B-S-081519	DU6-S-081519	SS1-S-081519	SS2-S-081519	SS3-S-081519
Collection Date			08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019	08/15/2019
Collection Depth (ft bgs)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0
Chrysene	NV	NV	0.145 J	0.438 J	0.304 J	0.0648	5.51	16.6	22.9	6.11	0.779	0.349
Dibenzo(a,h)anthracene	NV	NV	0.0477	0.0741	0.0812	0.0134	1.02	2.74	3.28	0.809	0.16	0.0541
Fluoranthene	NV	140,000	0.19 J	0.6 J	0.488 J	0.0895	7.56	20	30.7	10.8	1.44	0.384
Fluorene	NV	140,000	0.00252 J	0.00983	0.00915	0.00175 J	0.253	0.542	0.847	0.358	0.0423	0.00061 U
Indeno(1,2,3-cd)pyrene	NV	NV	0.0943 J	0.186 J	0.233 J	0.0428	3	8.66	11.4	2.3	0.541	0.142
Naphthalene	5	70,000	0.00202 U	0.00214 J	0.00204 J	0.00207 U	0.176	0.27	0.235	0.21	0.0206	0.00203 U
Phenanthrene	NV	NV	0.0622 J	0.244 J	0.19 J	0.0327	3.95	10.3	13.7	7.9	0.792	0.0905
Pyrene	NV	110,000	0.449	0.753	0.546	0.0759	9.51	25.9	28.1	12.1	1.24	0.298
cPAH TEQ[(d)]	2	130	0.272	0.486	0.497	0.0894	8.42	20.6	28.8	5.93	1.11	0.227

NOTES:

Shading indicates values that exceed screening criteria; non-detects ("U" or "UJ") were not compared with screening criteria.

When all constituents for calculated results are non-detect, the highest detection limit is used.

MTCA A Industrial Properties

-- = not analyzed.

cPAH TEQ = carcinogenic PAH toxicity equivalence. cPAH TEQ is calculated with non-detect results treated as one-half according to Washington State Department of Ecology Implementation Memorandum #10 (Evaluating the Human Health Toxicity of Carcinogenic PAHs [cPAHs] Using Toxicity Equivalency Factors [TEFs]). April 20, 2015.

CUL = cleanup levels.

ft bgs = feet below ground surface.

J = estimated value.

mg/kg = milligrams per kilogram.

MTCA A = Model Toxics Control Act Method A, industrial land use.

MTCA C = Model Toxics Control Act Method C, lower of carcinogen or noncarcinogen value.

NV = no value.

PAH = polycyclic aromatic hydrocarbon.

PCB = polychlorinated biphenyl.

TPH = total petroleum hydrocarbons.

U = result is non-detect to method detection limit.

UJ = result is non-detect to method detection limit and is an estimated value.

USEPA = U.S. Environmental Protection Agency.

WAD = weak acid dissociable.

(a) Soil samples analyzed for asbestos were collected from the surface to 0.5 ft bgs.

(b) CUL is for gasoline-range organics with benzene present.

(c) CUL is for trivalent chromium.

(d) cPAH TEQ values are based on toxic equivalence factors from USEPA Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons. 1993. (EPA/600/R-93/089)

MAUL FOSTER ALONGI

Table 2
VOC and SVOC Soil Analytical Results
2111 East Hawthorne Rd.
Mead, WA 99213

Location	MTCA A	MTCA C	B7				B8	B11		B12		DU3A
Sample Name			B7-S-081419-1.0	B7-S-081419-2.5	B7-S-081419-4.0	B7-S-081419-7.0	B8-S-081419-9.5	B11-S-081419-1.0	B11-S-081419-3.0	B12-S-081419-1.0	B12-S-081419-4.0	DU3A-S-081519
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/15/2019
Collection Depth (ft bgs)			1	2.5	4	7	9.5	1	3	1	4	0.5
VOCs (mg/kg)												
1,1,1,2-Tetrachloroethane	NV	5,000	0.000529 U	0.00052 U	0.000572 U	0.000541 U	0.000538 U	0.000517 U	0.000723 U	0.000639 U	0.00079 U	0.00052 U
1,1,1-Trichloroethane	2	7,000,000	0.000291 U	0.000286 U	0.000314 U	0.000298 U	0.000296 U	0.000284 U	0.000397 U	0.000352 U	0.000434 U	0.000286 U
1,1,2,2-Tetrachloroethane	NV	660	0.000413 U	0.000406 U	0.000446 U	0.000422 U	0.00042 U	0.000403 U	0.000564 U	0.000498 U	0.000616 U	0.000405 U
1,1,2-Trichloroethane	NV	2,300	0.000934 U	0.000919 U	0.00101 U	0.000956 U	0.00095 U	0.000913 U	0.00128 U	0.00113 U	0.00139 U	0.000917 U
1,1-Dichloroethane	NV	23,000	0.000608 U	0.000598 U	0.000657 U	0.000623 U	0.000619 U	0.000595 U	0.000831 U	0.000735 U	0.000908 U	0.000597 U
1,1-Dichloroethene	NV	180,000	0.000529 U	0.00052 U	0.000572 U	0.000541 U	0.000538 U	0.000517 U	0.000723 U	0.000639 U	0.00079 U	0.00052 U
1,1-Dichloropropene	NV	NV	0.00074 U	0.000728 U	0.000801 U	0.000758 U	0.000753 U	0.000724 U	0.00101 U	0.000894 U	0.0011 U	0.000727 U
1,2,3-Trichlorobenzene	NV	NV	0.000661 U	0.00065 U	0.000715 U	0.000677 U	0.000672 U	0.000646 U	0.000903 U	0.000798 U	0.000987 U	0.000649 U
1,2,3-Trichloropropane	NV	4.4	0.00539 U	0.00531 U	0.00584 U	0.00552 U	0.00549 U	0.00527 U	0.00737 U	0.00651 U	0.00805 U	0.0053 U
1,2,3-Trimethylbenzene	NV	35,000	0.00307 J	0.0012 U	0.00131 U	0.00125 U	0.00124 U	0.00119 U	0.00166 U	0.00147 U	0.00182 U	0.00119 U
1,2,4-Trichlorobenzene	NV	4,500	0.0051 U	0.00501 U	0.00552 U	0.00522 U	0.00519 U	0.00498 U	0.00697 U	0.00616 U	0.00762 U	0.00501 U
1,2,4-Trimethylbenzene	NV	35,000	0.00678	0.00121 U	0.00133 U	0.00126 U	0.00125 U	0.0012 U	0.00167 U	0.00149 U	0.00183 U	0.00144 J
1,2-Dibromo-3-chloropropane	NV	160	0.00539 U	0.00531 U	0.00584 U	0.00552 U	0.00549 U	0.00527 U	0.00737 U	0.00651 U	0.00805 U	0.0053 U
1,2-Dibromoethane	0.005	66	0.000555 U	0.000546 U	0.000601 U	0.000568 U	0.000565 U	0.000543 U	0.000759 U	0.00067 U	0.000829 U	0.000545 U
1,2-Dichlorobenzene	NV	320,000	0.00153 U	0.00151 U	0.00166 U	0.00157 U	0.00156 U	0.0015 U	0.0021 U	0.00185 U	0.00229 U	0.00151 U
1,2-Dichloroethane	NV	1,400	0.000502 U	0.000494 U	0.000543 U	0.000514 U	0.000511 U	0.000491 U	0.000687 U	0.000607 U	0.00075 U	0.000494 U
1,2-Dichloropropane	NV	3,500	0.00134 U	0.00132 U	0.00145 U	0.00138 U	0.00137 U	0.00131 U	0.00184 U	0.00162 U	0.00201 U	0.00132 U
1,3,5-Trimethylbenzene	NV	35,000	0.00367 J	0.00112 U	0.00124 U	0.00117 U	0.00116 U	0.00112 U	0.00156 U	0.00138 U	0.0017 U	0.00112 U
1,3-Dichlorobenzene	NV	NV	0.0018 U	0.00177 U	0.00195 U	0.00184 U	0.00183 U	0.00176 U	0.00246 U	0.00217 U	0.00268 U	0.00177 U
1,3-Dichloropropane	NV	NV	0.00185 U	0.00182 U	0.002 U	0.00189 U	0.00188 U	0.00181 U	0.00253 U	0.00224 U	0.00276 U	0.00182 U
1,4-Dichlorobenzene	NV	24,000	0.00208 U	0.00205 U	0.00226 U	0.00213 U	0.00212 U	0.00204 U	0.00285 U	0.00251 U	0.00311 U	0.00205 U
2,2-Dichloropropane	NV	NV	0.000839 U	0.000825 U	0.000907 U	0.000859 U	0.000853 U	0.00082 U	0.00115 U	0.00101 U	0.00125 U	0.000824 U
2-Butanone	NV	2,100,000	0.0602 J	0.026 U	0.0346 J	0.0557 J	0.0437 J	0.0129 U	0.0803 J	0.0625 J	0.0775 J	0.0288 J
2-Chlorotoluene	NV	70,000	0.000973 U	0.000957 U	0.00105 U	0.000996 U	0.00099 U	0.000951 U	0.00133 U	0.00117 U	0.00145 U	0.000956 U
4-Chlorotoluene	NV	NV	0.0012 U	0.00118 U	0.00129 U	0.00122 U	0.00122 U	0.00117 U	0.00163 U	0.00144 U	0.00179 U	0.00117 U
4-Isopropyltoluene	NV	NV	0.00246 U	0.00242 U	0.00266 U	0.0204	0.00365 J	0.00241 U	0.00337 U	0.00297 U	0.00368 U	0.00242 U
4-Methyl-2-pentanone	NV	280,000	0.0106 U	0.0104 U	0.0114 U	0.0108 U	0.0108 U	0.0103 U	0.0145 U	0.0128 U	0.0158 U	0.0104 U
Acetone	NV	3,200,000	0.0145 U	0.0143 U	0.0264 J	0.0387	0.0543	0.0142 U	0.0836	0.0604	0.0216 U	0.0197 J
Acrylonitrile	NV	240	0.00201 U	0.00198 U	0.00217 U	0.00206 U	0.00204 U	0.00196 U	0.00275 U	0.00243 U	0.003 U	0.00197 U
Benzene	0.03	2,400	0.00339	0.000416 U	0.00114 U	0.00108 U	0.00108 U	0.00103 U	0.00145 U	0.00128 U	0.00158 U	0.00104 U
Bromobenzene	NV	28,000	0.00111 U	0.00109 U	0.0012 U	0.00114 U	0.00113 U	0.00109 U	0.00152 U	0.00134 U	0.00166 U	0.00109 U
Bromodichloromethane	NV	2,100	0.000834 U	0.00082 U	0.000901 U	0.000853 U	0.000848 U	0.000815 U	0.00114 U	0.00101 U	0.00125 U	0.000819 U
Bromoform	NV	17,000	0.00633 U	0.00622 U	0.00684 U	0.00647 U	0.00643 U	0.00618 U	0.00864 U	0.00764 U	0.00945 U	0.00621 U
Bromomethane	NV	4,900	0.00391 U	0.00385 UJ	0.00423 U	0.00401 U	0.00398 U	0.00383 U	0.00535 U	0.00472 U	0.00584 U	0.00384 U
Carbon tetrachloride	NV	1,900	0.00114 U	0.00112 U	0.00124 U	0.00117 U	0.00116 U	0.00112 U	0.00156 U	0.00138 U	0.0017 U	0.00112 U
Chlorobenzene	NV	70,000	0.000606 U	0.000596 U	0.000655 U	0.00062 U	0.000617 U	0.000593 U	0.000828 U	0.000732 U	0.000905 U	0.000595 U

MAUL FOSTER ALONGI

Table 2
VOC and SVOC Soil Analytical Results
2111 East Hawthorne Rd.
Mead, WA 99213

Location	MTCA A	MTCA C	B7				B8	B11		B12		DU3A
Sample Name			B7-S-081419-1.0	B7-S-081419-2.5	B7-S-081419-4.0	B7-S-081419-7.0	B8-S-081419-9.5	B11-S-081419-1.0	B11-S-081419-3.0	B12-S-081419-1.0	B12-S-081419-4.0	DU3A-S-081519
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/15/2019
Collection Depth (ft bgs)			1	2.5	4	7	9.5	1	3	1	4	0.5
Chloroethane	NV	NV	0.00114 U	0.00112 UJ	0.00124 U	0.00117 U	0.00116 U	0.00112 U	0.00156 U	0.00138 U	0.0017 U	0.00112 U
Chloroform	NV	4,200	0.00084 J	0.000432 U	0.000475 U	0.000575 J	0.00108 J	0.000429 U	0.0021 J	0.00126 J	0.000656 U	0.000431 U
Chloromethane	NV	NV	0.00147 U	0.00145 U	0.00159 U	0.00326 J	0.0015 U	0.00475 J	0.00421 J	0.00412 J	0.00669 J	0.00144 U
cis-1,2-Dichloroethene	NV	7,000	0.00073 U	0.000718 U	0.000781 U	0.000747 U	0.000742 U	0.000714 U	0.000997 U	0.000881 U	0.00109 U	0.000717 U
cis-1,3-Dichloropropene	NV	NV	0.000717 U	0.000705 U	0.000775 U	0.000734 U	0.000729 U	0.000701 U	0.00098 U	0.000866 U	0.00107 U	0.000704 U
Dibromochloromethane	NV	1,600	0.000476 U	0.000468 U	0.000515 U	0.000487 U	0.000484 U	0.000465 U	0.00065 U	0.000575 U	0.000711 U	0.000468 U
Dibromomethane	NV	35,000	0.00106 U	0.00104 U	0.00114 U	0.00108 U	0.00108 U	0.00103 U	0.00145 U	0.00128 U	0.00158 U	0.00104 U
Dichlorodifluoromethane (Freon 12)	NV	700,000	0.000865 U	0.000851 U	0.000935 U	0.000886 U	0.00088 U	0.000846 U	0.00118 U	0.00104 U	0.00129 U	0.00085 U
Ethylbenzene	6	350,000	0.00865	0.000551 U	0.000606 U	0.000574 U	0.00057 U	0.000548 U	0.0013 J	0.000754 J	0.000974 J	0.000704 J
Freon 113	NV	110,000,000	0.000714 U	0.000702 U	0.000772 U	0.000731 U	0.000726 U	0.000698 U	0.000976 U	0.000863 U	0.00107 U	0.000701 U
Hexachlorobutadiene	NV	1,700	0.0134 U	0.0132 U	0.0145 U	0.0138 U	0.0137 U	0.0131 U	0.0184 U	0.0162 U	0.0201 U	0.0132 U
Isopropyl ether	NV	NV	0.00037 U	0.000364 U	0.0004 U	0.000379 U	0.000377 U	0.000362 U	0.000506 U	0.000447 U	0.000553 U	0.000364 U
Isopropylbenzene	NV	350,000	0.000914 J	0.000898 U	0.000987 U	0.000934 U	0.000929 U	0.000892 U	0.00125 U	0.0011 U	0.00136 U	0.000897 U
Methyl tert-butyl ether	0.1	73,000	0.000312 U	0.000307 U	0.000338 U	0.000319 U	0.000317 U	0.000305 U	0.000426 U	0.000377 U	0.000466 U	0.000307 U
Methylene chloride	0.02	21,000	0.00702 U	0.00691 U	0.00759 U	0.00719 U	0.00714 U	0.00687 U	0.0096 U	0.00848 U	0.0105 U	0.0069 U
Naphthalene	5	70,000	0.237	0.00325 U	0.00357 U	0.00338 U	0.00336 U	0.00323 U	0.00451 U	0.00399 U	0.00493 U	0.0651
n-Butylbenzene	NV	180,000	0.00406 U	0.004 U	0.00439 U	0.00416 U	0.00413 U	0.00397 U	0.00555 U	0.0049 U	0.00607 U	0.00399 U
n-Propylbenzene	NV	350,000	0.00138 J	0.00123 U	0.00135 U	0.00128 U	0.00127 U	0.00122 U	0.0017 U	0.00151 U	0.00186 U	0.00123 U
sec-Butylbenzene	NV	350,000	0.00268 U	0.00263 U	0.0029 U	0.00274 U	0.00272 U	0.00262 U	0.00365 U	0.00323 U	0.00399 U	0.00263 U
Styrene	NV	700,000	0.00289 U	0.00284 U	0.00312 U	0.00296 U	0.00294 U	0.00282 U	0.00394 U	0.00349 U	0.00735 J	0.00284 U
tert-Butylbenzene	NV	350,000	0.00164 U	0.00161 U	0.00177 U	0.00168 U	0.00167 U	0.0016 U	0.00224 U	0.00198 U	0.00245 U	0.00161 U
Tetrachloroethene	0.05	21,000	0.00264 U	0.000728 U	0.000801 U	0.000758 U	0.00269 U	0.000724 U	0.00101 U	0.000894 U	0.0011 U	0.0026 U
Toluene	7	280,000	0.0167	0.0052 U	0.00572 U	0.00541 U	0.00618 J	0.00616 J	0.0157	0.0117	0.014	0.0052 U
trans-1,2-Dichloroethene	NV	70,000	0.00151 U	0.00149 U	0.00164 U	0.00155 U	0.00154 U	0.00148 U	0.00206 U	0.00182 U	0.00226 U	0.00149 U
trans-1,3-Dichloropropene	NV	NV	0.00162 U	0.00159 U	0.00175 U	0.00166 U	0.00165 U	0.00158 U	0.00221 U	0.00196 U	0.00241 U	0.00159 U
Trichloroethene	0.03	1,800	0.000423 U	0.000416 U	0.000458 U	0.000433 U	0.00043 U	0.000414 U	0.000578 U	0.000511 U	0.000632 U	0.000416 U
Trichlorofluoromethane (Freon 11)	NV	1,100,000	0.000529 U	0.00052 U	0.000572 U	0.000541 U	0.000538 U	0.000517 U	0.000723 U	0.000639 U	0.00079 U	0.00052 U
Vinyl chloride	NV	88	0.000722 U	0.000711 U	0.000774 U	0.00074 U	0.000735 U	0.000706 U	0.000987 U	0.000872 U	0.00108 U	0.00071 U
Xylenes (Total)	9	700,000	0.0443	0.00497 U	0.00546 U	0.00518 U	0.00514 U	0.00494 U	0.00691 U	0.0061 U	0.00754 U	0.00497 U
SVOCs (mg/kg)												
1,2,4-Trichlorobenzene	NV	4,500	--	--	--	--	--	0.00906 U	0.00904 U	0.00917 U	0.0091 U	--
2,2'-oxybis(1-chloropropane)	NV	1,900	--	--	--	--	--	0.00786 U	0.00785 U	0.00796 U	0.0079 U	--
2,4,5-Trichlorophenol	NV	350,000	--	--	--	--	--	0.0108 U	0.0107 U	0.0109 U	0.0108 U	--
2,4,6-Trichlorophenol	NV	3,500	--	--	--	--	--	0.00806 U	0.00804 U	0.00815 U	0.0081 U	--
2,4-Dichlorophenol	NV	11,000	--	--	--	--	--	0.00771 U	0.0077 U	0.00781 U	0.00775 U	--
2,4-Dimethylphenol	NV	70,000	--	--	--	--	--	0.0487 U	0.0486 U	0.0493 U	0.0489 U	--
2,4-Dinitrophenol	NV	7,000	--	--	--	--	--	0.101 U	0.101 U	0.103 U	0.102 U	--

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Mead, WA 99213

Location	MTCA A	MTCA C	B7				B8	B11		B12		DU3A
Sample Name			B7-S-081419-1.0	B7-S-081419-2.5	B7-S-081419-4.0	B7-S-081419-7.0	B8-S-081419-9.5	B11-S-081419-1.0	B11-S-081419-3.0	B12-S-081419-1.0	B12-S-081419-4.0	DU3A-S-081519
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/15/2019
Collection Depth (ft bgs)			1	2.5	4	7	9.5	1	3	1	4	0.5
2,4-Dinitrotoluene	NV	420	--	--	--	--	--	0.00628 U	0.00627 U	0.00635 U	0.00631 U	--
2,6-Dinitrotoluene	NV	88	--	--	--	--	--	0.00762 U	0.00761 U	0.00771 U	0.00766 U	--
2-Chloronaphthalene	NV	280,000	--	--	--	--	--	0.00661 U	0.0066 U	0.00669 U	0.00664 U	--
2-Chlorophenol	NV	18,000	--	--	--	--	--	0.00859 U	0.00858 U	0.0087 U	0.00864 U	--
2-Methylphenol	NV	180,000	--	--	--	--	--	0.0102 U	0.0102 U	0.0103 U	0.0102 U	--
2-Nitrophenol	NV	NV	--	--	--	--	--	0.0134 U	0.0134 U	0.0136 U	0.0135 U	--
3- & 4-Methylphenol (m,p-Cresol)	NV	NV	--	--	--	--	--	0.0081 U	0.00808 U	0.0082 U	0.00814 U	--
3,3-Dichlorobenzidine	NV	290	--	--	--	--	--	0.0821 U	0.082 U	0.0831 U	0.0825 U	--
4,6-Dinitro-2-methylphenol	NV	280	--	--	--	--	--	0.128 U	0.128 U	0.13 U	0.129 U	--
4-Bromophenylphenyl ether	NV	NV	--	--	--	--	--	0.0118 U	0.0118 U	0.0119 U	0.0118 U	--
4-Chloro-3-methylphenol	NV	350,000	--	--	--	--	--	0.00493 U	0.00492 U	0.00499 U	0.00496 U	--
4-Chlorophenylphenyl ether	NV	NV	--	--	--	--	--	0.00648 U	0.00647 U	0.00656 U	0.00652 U	--
4-Nitrophenol	NV	NV	--	--	--	--	--	0.0543 U	0.0542 U	0.055 U	0.0546 U	--
Acenaphthene	NV	210,000	--	--	--	--	--	0.00664 U	0.00663 U	0.00672 U	0.00667 U	--
Acenaphthylene	NV	NV	--	--	--	--	--	0.00694 U	0.00693 U	0.00702 U	0.00697 U	--
Anthracene	NV	1,100,000	--	--	--	--	--	0.00654 U	0.00652 U	0.00662 U	0.00657 U	--
Benzo(a)anthracene	NV	NV	--	--	--	--	--	0.00443 U	0.00442 U	0.00448 U	0.00445 U	--
Benzo(a)pyrene	2	130	--	--	--	--	--	0.00567 U	0.00566 U	0.00574 U	0.0057 U	--
Benzo(b)fluoranthene	NV	NV	--	--	--	--	--	0.00719 U	0.00718 U	0.00728 U	0.00722 U	--
Benzo(ghi)perylene	NV	NV	--	--	--	--	--	0.00746 U	0.00744 U	0.00755 U	0.00749 U	--
Benzo(k)fluoranthene	NV	NV	--	--	--	--	--	0.00602 U	0.00601 U	0.00609 U	0.00605 U	--
Bis(2-chloroethoxy)methane	NV	NV	--	--	--	--	--	0.00796 U	0.00795 U	0.00806 U	0.008 U	--
Bis(2-chloroethyl)ether	NV	120	--	--	--	--	--	0.00927 U	0.00925 U	0.00938 U	0.00931 U	--
Bis(2-ethylhexyl)phthalate	NV	9,400	--	--	--	--	--	0.0124 U	0.0124 U	0.0126 U	0.0125 U	--
Butylbenzylphthalate	NV	69,000	--	--	--	--	--	0.0107 U	0.0106 U	0.0108 U	0.0107 U	--
Chrysene	NV	NV	--	--	--	--	--	0.00574 U	0.00573 U	0.00581 U	0.00577 U	--
Dibenzo(a,h)anthracene	NV	NV	--	--	--	--	--	0.00849 U	0.00848 U	0.00859 U	0.00853 U	--
Diethyl phthalate	NV	2,800,000	--	--	--	--	--	0.00715 U	0.00713 U	0.00723 U	0.00718 U	--
Dimethyl phthalate	NV	NV	--	--	--	--	--	0.00558 U	0.344 U	0.349 U	0.346 U	--
Di-n-butyl phthalate	NV	350,000	--	--	--	--	--	0.0113 U	0.0113 U	0.0114 U	0.0113 U	--
Di-n-octyl phthalate	NV	35,000	--	--	--	--	--	0.00938 U	0.00936 U	0.00949 U	0.00943 U	--
Fluoranthene	NV	140,000	--	--	--	--	--	0.00513 U	0.00512 U	0.00519 U	0.00515 U	--
Fluorene	NV	140,000	--	--	--	--	--	0.00705 U	0.00704 U	0.00714 U	0.00709 U	--
Hexachlorobenzene	NV	82	--	--	--	--	--	0.00885 U	0.00884 U	0.00896 U	0.0089 U	--
Hexachlorobutadiene	NV	1,700	--	--	--	--	--	0.0103 U	0.0103 U	0.0105 U	0.0104 U	--
Hexachlorocyclopentadiene	NV	21,000	--	--	--	--	--	0.0607 U	0.0606 U	0.0614 U	0.061 U	--
Hexachloroethane	NV	2,500	--	--	--	--	--	0.0139 U	0.0138 U	0.014 U	0.0139 U	--

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Table 2
VOC and SVOC Soil Analytical Results
2111 East Hawthorne Rd.
Mead, WA 99213

Location	MTCA A	MTCA C	B7				B8	B11		B12		DU3A
Sample Name			B7-S-081419-1.0	B7-S-081419-2.5	B7-S-081419-4.0	B7-S-081419-7.0	B8-S-081419-9.5	B11-S-081419-1.0	B11-S-081419-3.0	B12-S-081419-1.0	B12-S-081419-4.0	DU3A-S-081519
Collection Date			08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/14/2019	08/15/2019
Collection Depth (ft bgs)			1	2.5	4	7	9.5	1	3	1	4	0.5
Indeno(1,2,3-cd)pyrene	NV	NV	--	--	--	--	--	0.00798 U	0.00797 U	0.00808 U	0.00802 U	--
Isophorone	NV	140,000	--	--	--	--	--	0.0054 U	0.00539 U	0.00546 U	0.00542 U	--
Naphthalene	5	70,000	--	--	--	--	--	0.00919 U	0.00918 U	0.00931 U	0.00924 U	--
Nitrobenzene	NV	7,000	--	--	--	--	--	0.00719 U	0.00718 U	0.00728 U	0.00722 U	--
N-Nitrosodimethylamine	NV	2.6	--	--	--	--	--	0.0669 U	0.0668 U	0.0677 U	0.0672 U	--
N-Nitrosodiphenylamine	NV	27,000	--	--	--	--	--	0.0931 U	0.0929 U	0.0942 U	0.0935 U	--
N-Nitrosodipropylamine	NV	19	--	--	--	--	--	0.00937 U	0.00935 U	0.00948 U	0.00942 U	--
Pentachlorophenol	NV	330	--	--	--	--	--	0.0496 U	0.0496 U	0.0502 U	0.0499 U	--
Phenanthrene	NV	NV	--	--	--	--	--	0.00546 U	0.00545 U	0.00553 U	0.00549 U	--
Phenol	NV	1,100,000	--	--	--	--	--	0.00719 U	0.00718 U	0.00728 U	0.00722 U	--
Pyrene	NV	110,000	--	--	--	--	--	0.0127 U	0.0127 U	0.0129 U	0.0128 U	--
Pyridine	NV	3,500	--	--	--	--	--	0.0649 U	0.0648 U	0.0657 U	0.0653 U	--
cPAH TEQ(1)	2	130						0.00849 U	0.00848 U	0.00859 U	0.00853 U	--

ft bgs = feet below ground surface.
Shading indicates values that exceed screening criteria; non-detects ("U" or "UJ") were not compared with screening criteria. No exceedances.
When all constituents for calculated results are non-detect, the highest detection limit is used.
-- = not analyzed.
ft bgs = feet below ground surface.
J = estimated value.
mg/kg = milligrams per kilogram.
MTCA A = Model Toxics Control Act Method A, industrial land use.
MTCA C = Model Toxics Control Act Method C, lower of carcinogen or noncarcinogen value.
NV = no value.
SVOC = semivolatile organic compound.
U = result is non-detect to method detection limit.
UJ = result is non-detect to method detection limit and is an estimated value.
VOC = volatile organic compound.

References:
(1)cPAH TEQ values are based on toxic equivalence factors from USEPA Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons. 1993. (EPA/600/R-93/089)

FIGURE

Source: Aerial photo obtained from Esri ArcGIS Online

Legend

- Boring Location
- Soil Sampling Location
- Decision Unit

Figure
Investigation Locations
2111 East Hawthorne Rd.
Mead, WA 99218

0 200 400
Feet

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Path: X:\1332 TriStar Companies\03\Projects\Investigation_Locations.mxd
Print Date: 8/28/2019
Approved By:
Produced By: aguse
Project: 1332.03.02

ATTACHMENT A

BORING LOGS

Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B1**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			80	**CB**					0 to 2.0 feet: SILTY SAND (SM); yellowish brown; 20% fines; 80% sand, very fine to fine grained; loose; dry to moist.
1				**GRAB**		**B1-S-081419-0.5**			B1-S-081419-0.5 analyzed for asbestos.
				GRAB		**B1-S-081419-1.0**			B1-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									2.0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 10% fines; 90% sand, fine to coarse grained; trace gravel, subangular ;loose; dry to moist.
3									
4				**GRAB**		**B1-S-081419-4.0**			B1-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			**80**	**CB**					
6									
7									
8									@ 8.0 feet: Color changes to very light brownish gray; coarse gravel.
9									
10									@ 10.0 feet: Cobbles, quartz.

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PAHs = polycyclic aromatic hydrocarbons. 4) PCBs = polychlorinated biphenyls.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B10	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0.0 to 10.0 feet: SAND (SP); brown; 100% sand, fine to coarse grained; trace fines; trace gravel, fine sized; moist.
1				GRAB	B10-S-081419-1.0	PID = 0.0			B10-S-081419-1.0 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, metals, and DRO/RRO.
2									@ 2.0 feet: 1-inch thick clay lens.
3									
4				GRAB	B10-S-081419-3.5	PID = 0.0			B10-S-081419-3.5 analyzed for DRO/RRO, PAHs, and PCBs.
				GRAB	B10-S-081419-4.0	PID = 0.0 ppm			@ 3.5 feet: 2.5-inch thick layer of fines; color changes to very dark (nearly black).
5			100	CB					B10-S-081419-4.0 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, metals, and DRO/RRO.
6						PID = 0.0 ppm			
7									
8									
9						PID = 0.0 ppm			
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) DRO = diesel-range organics. 4) PAHs = polycyclic aromatic hydrocarbons. 5) PCBs = polychlorinated biphenyls. 6) PID = photoionization detector. 7) PID screening results shown in parts per million. 8) RRO = residual-range organics.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B11	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0.0 to 10.0 feet: SAND (SP); grayish brown; 90% sand, fine to coarse grained; 10% gravel, fine sized, subrounded to subangular; moist.
1				GRAB	B11-S-081419-1.0	PID = 6.2			B11-S-081419-1.0 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, metals, DRO/RRO, SVOCs, and VOCs.
2									
3				GRAB	B11-S-081419-3.0				B11-S-081419-3.0 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, metals, DRO/RRO, SVOCs, VOCs.
4									
5			100	CB					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) DRO = diesel-range organics. 4) PAHs = polycyclic aromatic hydrocarbons. 5) PCBs = polychlorinated biphenyls. 6) PID = photoionization detector. 7) PID screening results shown in parts per million. 8) RRO = residual-range organics. 9) SVOCs = semivolatile organic compounds. 10) VOCs = volatile organic compounds.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B12	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0.0 to 10.0 feet: SAND (SP); grayish brown; 90% sand, fine to coarse grained; 10% gravel, fine sized, subrounded to subangular; loose; moist.
1				GRAB	B12-S-081419-1.0	PID = 0.2			B12-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RRO, SVOCs, and VOCs.
2									
3									
4				GRAB	B12-S-081419-4.0				B12-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RRO, SVOCs, and VOCs.
5			100	CB					@ 4.5 feet: Gravel lens.
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) DRO = diesel-range organics. 4) PAHs = polycyclic aromatic hydrocarbons. 5) PCBs = polychlorinated biphenyls. 6) PID = photoionization detector. 7) PID screening results shown in parts per million. 8) RRO = residual-range organics. 9) SVOCs = semivolatile organic compounds. 10) VOCs = volatile organic compounds.

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Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B2**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			80	**CB**					0 to 2.0 feet: SILTY SAND (SM); yellowish brown; 20% fines; 80% sand, very fine to fine grained; loose; trace organics; dry to moist.
1				**GRAB**		**B2-S-081419-0.5**			B2-S-081419-0.5 analyzed for asbestos.
				GRAB		**B2-S-081419-1.0**			B2-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									2.0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 10% fines; 90% sand, fine to coarse grained; trace gravel, subangular; loose; dry to moist.
3									
4				**GRAB**		**B2-S-081419-4.0**			B2-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			**100**	**CB**					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PAHs = polycyclic aromatic hydrocarbons. 4) PCBs = polychlorinated biphenyls.

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Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B3	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 10% fines; 85% sand, fine to coarse grained; 5% gravel, subangular to subrounded; loose; dry to moist.
1				GRAB	B3-S-081419-0.5				B3-S-081419-0.5 analyzed for asbestos.
				GRAB	B3-S-081419-1.0				B3-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									
3									
4				GRAB	B3-S-081419-4.0				B3-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			100	CB					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PAHs = polycyclic aromatic hydrocarbons. 4) PCBs = polychlorinated biphenyls.

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Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B4	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 10% fines; 90% sand, fine to medium grained; trace gravel, subangular to subrounded; loose; dry.
1				GRAB	B4-S-081419-1.0				B4-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									
3				GRAB	B4-S-081419-4.0				
4									B4-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			100	CB					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PAHs = polycyclic aromatic hydrocarbons. 4) PCBs = polychlorinated biphenyls.

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Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B5**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0 to 10.0 feet: SAND (SP); yellowish brown; 100% sand, fine to medium grained; trace fines; trace gravel, subangular to subrounded; loose; dry.
1				**GRAB**		**B5-S-081419-0.5**			B5-S-081419-0.5 analyzed for asbestos.
				GRAB		**B5-S-081419-1.0**			B5-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									
3									
4				**GRAB**		**B5-S-081419-4.0**			B5-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			**100**	**CB**					
6									
7									@ 7.0 feet: Becomes moist to wet (potentially due to water line and fire hydrant repairs).
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PAHs = polycyclic aromatic hydrocarbons. 4) PCBs = polychlorinated biphenyls.

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Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B6**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 5% fines; 85% sand, fine to coarse grained; 10% gravel, fine to medium sized, subangular to subrounded; loose; dry to moist.
1				**GRAB**	**B6-S-081419-0.5**				B6-S-081419-0.5 analyzed for asbestos.
				GRAB	**B6-S-081419-1.0**				B6-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									@ 1.5 feet: 2.5-inch thick lens of fines; dark brown.
3									
4				**GRAB**	**B6-S-081419-4.0**				B6-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			**100**	**CB**					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PAHs = polycyclic aromatic hydrocarbons. 4) PCBs = polychlorinated biphenyls.

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Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B7**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 5% fines; 85% sand, fine to coarse grained; 10% gravel, fine to medium sized, subangular to subrounded; loose; dry to moist.
1				**GRAB**		**B7-S-081419-0.5**			B7-S-081419-0.5 analyzed for asbestos.
				GRAB		**PID = 180**			
						B7-S-081419-1.0			B7-S-081419-1.0 analzyed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RRO, GRO, and VOCs.
2									
3				**GRAB**		**PID = 0.1**			
						B7-S-081419-2.5			B7-S-081419-2.5 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RRO, GRO, and VOCs.
4									
				GRAB		**PID = 0.0**			
						B7-S-081419-4.0			B7-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RRO, GRO, and VOCs.
5			**100**	**CB**					
6									
7				**GRAB**		**PID = 120**			
						B7-S-081419-7.0			B7-S-081419-7.0 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RRO, GRO, and VOCs.
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) DRO = diesel-range organics. 4) GRO = gasoline-range organics. 5) PAHs = polycyclic aromatic hydrocarbons. 6) PCBs = polychlorinated biphenyls. 7) PID = photoionization detector. 8) PID screening results shown in parts per million. 9) RRO = residual-range organics. 10) SVOCs = semivolatile organic compounds. 11) VOCs = volatile organic compounds.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B8	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0 to 1.5 feet: Concrete and asphalt. (FILL)
1									
2									1.5 to 9.0 feet: SAND WITH SILT (SP); yellowish brown; 100% sand, fine to coarse grained; trace fines; trace gravel, fine to medium sized, subangular; loose; moist.
3				GRAB		PID = 0.1 B8-S-081419-2.5			B8-S-081419-2.5 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO, GRO, and VOCs.
4									
5			100	CB					
6									
7									
8									@ 8.0 feet: Becomes wet (potentially perched groundwater).
9									9.0 to 10.0 feet: SAND (SP); greenish gray; 100% sand, fine to medium grained; loose; no odor; moist.
10				GRAB		PID = 3.0 B8-S-081419-9.5			B8-S-081419-9.5 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO, GRO/RO, and VOCs.

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) DRO = diesel-range organics. 4) GRO = gasoline-range organics. 5) PAHs = polycyclic aromatic hydrocarbons. 6) PCBs = polychlorinated biphenyls. 7) PID = photoionization detector. 8) PID screening results shown in parts per million. 9) RRO = residual-range organics. 10) SVOCs = semivolatile organic compounds. 11) VOCs = volatile organic compounds.

Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B9**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0.0 to 10.0 feet: SAND (SP); yellowish brown; 100% sand, fine to coarse grained; trace fines; trace gravel, fine sized; moist.
1									
2				**GRAB**		**PID = 0.0**			@ 2.0 feet: 1-inch thick clay lens.
						B9-S-081419-2.0			B9-S-081419-2.0 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, and metals.
3									@ 2.5 feet: 1-inch thick clay lens.
4						**PID = 0.0**			
5			**100**	**CB**					
6						**PID = 0.0**			
7									
8						**PID = 0.0**			
9									
10						**PID = 0.0**			

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: *1) bgs = below ground surface. 2) CB = core barrel. 3) PAHs = polycyclic aromatic hydrocarbons. 4) PCBs = polychlorinated biphenyls. 5) PID = photoionization detector. 6) PID screening results shown in parts per million.*

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Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B1	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			80	CB					0 to 2.0 feet: SILTY SAND (SM); yellowish brown; 20% fines; 80% sand, very fine to fine grained; loose; dry to moist.
1				GRAB		B1-S-081419-0.5			B1-S-081419-0.5 analyzed for asbestos.
				GRAB		B1-S-081419-1.0			B1-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									2.0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 10% fines; 90% sand, fine to coarse grained; trace gravel, subangular; loose; dry to moist.
3									
4									
				GRAB		B1-S-081419-4.0			B1-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			80	CB					
6									
7									
8									@ 8 feet: very light brownish gray, coarse gravel.
9									
10									@ 10 feet: cobbles (quartz)

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) ppm = parts per million.

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Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B2	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			80	CB					0 to 2.0 feet: SILTY SAND (SM); yellowish brown; 20% fines; 80% sand, very fine to fine grained; loose; trace organics; dry to moist.
1				GRAB		B2-S-081419-0.5			B2-S-081419-0.5 analyzed for asbestos.
				GRAB		B2-S-081419-1.0			B2-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									2.0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 10% fines; 90% sand, fine to coarse grained; trace gravel, subangular; loose; dry to moist.
3									
4				GRAB		B2-S-081419-4.0			B2-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			100	CB					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.

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Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B3	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0 to 2.0 feet: SAND WITH SILT (SM); yellowish brown; 10% fines; 85% sand, fine to coarse grained; 5% gravel, subangular to subrounded; loose; dry to moist.
1				GRAB	B3-S-081419-0.5				B3-S-081419-0.5 analyzed for asbestos.
				GRAB	B3-S-081419-1.0				B3-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									
3									
4				GRAB	B3-S-081419-4.0				B3-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			100	CB					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.

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Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B4**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 10% fines; 90% sand, fine to medium grained; trace gravel, subangular to subrounded; loose; dry.
1				**GRAB**		**B4-S-081419-1.0**			B4-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									
3				**GRAB**		**B4-S-081419-4.0**			
4									B4-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			**100**	**CB**					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.

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Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B5**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0 to 10.0 feet: SAND (SP); yellowish brown; 100% sand, fine to medium grained; trace fines; trace gravel, subangular to subrounded; loose; dry.
1				**GRAB**		**B5-S-081419-0.5**			B5-S-081419-0.5 analyzed for asbestos.
				GRAB		**B5-S-081419-1.0**			B5-S-081419-1.0 analyzed cyanide, fluoride, PCBs, PAHs, and metals.
2									
3									
4				**GRAB**		**B5-S-081419-4.0**			B5-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
5			**100**	**CB**					
6									
7									@ 7.0 feet: Becomes moist to wet. Likely due to water line and hydrant repairs.
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: *1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.*

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Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B6**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 5% fines; 85% sand, fine coarse grained; 10% gravel, fine to medium sized, subangular to subrounded; loose; dry to moist.
1				**GRAB**	**B6-S-081419-0.5**				B6-S-081419-0.5 analyzed for asbestos.
				GRAB	**B6-S-081419-1.0**				B6-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, and metals.
2									@ 1.5 feet: fines, dark, 2.5" thick.
3									
4				**GRAB**	**B6-S-081419-4.0**				B6-S-081419-4.0 analyzed cyanide, fluoride, PCBs, PAHs, and metals.
5			**100**	**CB**					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.

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Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B7	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0 to 10.0 feet: SAND WITH SILT (SM); yellowish brown; 5% fines; 85% sand, fine to coarse grained; 10% gravel, fine to medium sized, subangular to subrounded; loose; dry to moist.
1				GRAB		B7-S-081419-0.5			B7-S-081419-0.5 analyzed for asbestos.
				GRAB		PID = 180 B7-S-081419-1.0			B7-S-081419-1.0 analzyed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RO, GRO, and VOCs.
2									
3				GRAB		PID = 0.1 ppm B7-S-081419-2.5			B7-S-081419-2.5 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RO, GRO, and VOCs.
4				GRAB		PID = 0.0 ppm B7-S-081419-4.0			B7-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RO, GRO, and VOCs.
5			100	CB					
6									
7				GRAB		PID = 120 ppm B7-S-081419-7.0			B7-S-081419-7.0 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RO, GRO, and VOCs.
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.

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Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B8	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0 to 1.5 feet: Concrete and Asphalt. (FILL)
1									
2									1.5 to 9.0 feet: SAND WITH SILT (SP); yellowish brown; 100% sand, fine to coarse grained; trace fines; trace gravel, fine to medium sized, subangular; loose; moist.
3				GRAB	PID = 0.1 ppm B8-S-081419-2.5				B8-S-081419-2.5 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO, GRO, and VOCs.
4									
5			100	CB					
6									
7									
8									@ 8.0 feet: Becomes wet. Possible perched layer.
9									9.0 to 10.0 feet: SAND (SP); greenish gray; 100% sand, fine to medium grained; loose; no odor; moist.
10				GRAB	PID = 3.0 ppm B8-S-081419-9.5				B8-S-081419-9.5 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO, GRO/RO, and VOCs.

Total Depth = 30.0 feet bgs.

Borehole Completion Details:
0 to 30.0 feet bgs: 4.0-inch borehole.
0 to 30.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.

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Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B9**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0.0 to 10.0 feet: SAND (SP); yellowish brown; 100% sand, fine to coarse grained; trace fines; trace gravel, fine sized; moist.
1									
2				**GRAB**		**PID = 0.0 ppm**			@2.0 feet: 1" clay lens
						B9-S-081419-2.0			B9-S-081419-2.0 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, and metals.
3									@2.5 feet: 1" clay lens
4						**PID = 0.0 ppm**			
5			**100**	**CB**					
6						**PID = 0.0 ppm**			
7									
8						**PID = 0.0 ppm**			
9									
10						**PID = 0.0 ppm**			

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: *1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.*

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Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B10	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0.0 to 10.0 feet: SAND (SP); brown; 100% sand, fine to coarse grained; trace fines; trace gravel, fine sized; moist.
1				GRAB	B10-S-081419-1.0	PID = 0.0 ppm			B10-S-081419-1.0 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, metals, and DRO/RO.
2									@ 2.0 feet: 1" clay lens.
3									
4				GRAB	B10-S-081419-3.5	PID = 0.0			B10-S-081419-3.4 analyzed for DRO/RO, PAH, and PCB. @ 3.5 feet: fines, very dark to nearly black, 2.5" thick.
				GRAB	B10-S-081419-4.0	PID = 0.0 ppm			B10-S-081419-3.4 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, metals, and DRO/RO.
5			100	CB					
6						PID = 0.0 ppm			
7									
8									
9						PID = 0.0 ppm			
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) ppm = parts per million.

INTERBAY GBLWC W:\GINT\GINTW\PROJECTS\1332.03\TRISTAR KAISER MEAD.GPJ 8/21/19

Geologic Borehole Log/Well Construction

Maul Foster & Alongi, Inc.

Project Number	Well Number	Sheet
1332.03.03	**B11**	**1 of 1**

Project Name	**Tristar (Kaiser) Aluminum Smelter Site**	TOC Elevation (feet)	
Project Location	**Mead, Washington**	Surface Elevation (feet)	
Start/End Date	**8/14/2019 to 8/14/2019**	Northing	
Driller/Equipment	**Holt Services, Inc./Direct Push**	Easting	
Geologist/Engineer	**L. Pritzl**	Hole Depth	**10.0-feet**
Sample Method	**Core barrel**	Outer Hole Diam	**4-inch**

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	**CB**					0.0 to 10.0 feet: SAND (SP); grayish brown; 90% sand, fine to coarse grained; 10% gravel, fine sized, subrounded to subangular; moist.
1				**GRAB**	**B11-S-081419-1.0**	**PID = 6.2 ppm**			B11-S-081419-1.0 analyzed for asbestos, cyanide, fluoride, PCBs, PAHs, metals, DRO/RO, SVOCs, and VOCs.
2									
3				**GRAB**	**B11-S-081419-3.0**				B11-S-081419-3.0 analyzed for Asbestos, Cyanide,Fluoride, PCBs, PAHs, metals, DRO/RO,SVOCs, VOCs.
4									
5			**100**	**CB**					
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.

INTERBAY GBLWC W:\GINT\GINTW\PROJECTS\1332.03\TRISTAR KAISER MEAD.GPJ 8/21/19

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number	Well Number	Sheet
1332.03.03	B12	1 of 1

Project Name	Tristar (Kaiser) Aluminum Smelter Site	TOC Elevation (feet)	
Project Location	Mead, Washington	Surface Elevation (feet)	
Start/End Date	8/14/2019 to 8/14/2019	Northing	
Driller/Equipment	Holt Services, Inc./Direct Push	Easting	
Geologist/Engineer	L. Pritzl	Hole Depth	10.0-feet
Sample Method	Core barrel	Outer Hole Diam	4-inch

Depth (feet, BGS)	Well Details	Sample Data: Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description
			100	CB					0.0 to 10.0 feet: SAND (SP); grayish brown; 90% sand, fine to coarse grained; 10% gravel, fine sized, subrounded to subangular; loose; moist.
1				GRAB	B12-S-081419-1.0 PID = 0.2 ppm				B12-S-081419-1.0 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RO, SVOCs, and VOCs.
2									
3									
4				GRAB	B12-S-081419-4.0				B12-S-081419-4.0 analyzed for cyanide, fluoride, PCBs, PAHs, metals, DRO/RO, SVOCs, and VOCs.
5			100	CB					@4.5 feet: Gravel lens.
6									
7									
8									
9									
10									

Total Depth = 10.0 feet bgs.

Borehole Completion Details:
0 to 10.0 feet bgs: 4.0-inch borehole.
0 to 10.0 feet bgs: Bentonite chips hydrated with potable water.

NOTES: 1) bgs = below ground surface. 2) CB = core barrel. 3) PID = photoionization detector. 4) PID screening results shown in parts per million.

INTERBAY GBLWC W:\GINT\GINTW\PROJECTS\1332.03\TRISTAR KAISER MEAD.GPJ 8/21/19

ATTACHMENT B

LABORATORY REPORTS

LabCor Portland Inc

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Client: Maul Foster & Alongi
109 E 13th SE
Vancouver, WA 98660

Report Number: 194745R01
Report Date: 08/23/2019

P.O. No: n/a

Job Number: **194745**
Project Name: Tristar (Mead)
Project Number: 1332.03.03-01C
Project Notes:

Client Sample ID: **DU1-S-081519** **Sample ID:** S1 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Composite **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fine powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

Client Sample ID: **DU2-S-081519** **Sample ID:** S2 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Composite **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fine powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

Client Sample ID: **DU3A-S-081519** **Sample ID:** S3 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Composite **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fine powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

Client Sample ID: **DU3B-S-081519** **Sample ID:** S4 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Composite **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fine rocky powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

NVLAP TESTING
NVLAP Lab Code: 200741-0

LabCor Portland Inc

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Client: Maul Foster & Alongi
109 E 13th SE
Vancouver, WA 98660

Report Number: 194745R01
Report Date: 08/23/2019

P.O. No: n/a

Job Number: **194745**
Project Name: Tristar (Mead)
Project Number: 1332.03.03-01C
Project Notes:

Client Sample ID: **DU4-S-081519** **Sample ID:** S5 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Composite **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		**Percent Asbestos:**
Homogeneous						
fine powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **DU5A-S-081519** **Sample ID:** S6 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Composite **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		**Percent Asbestos:**
Homogeneous						
fine rocky powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **DU5B-S-081519** **Sample ID:** S7 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Composite **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		**Percent Asbestos:**
Homogeneous						
fine rocky powder, gray	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **DU6-S-081519** **Sample ID:** S8 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Composite **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		**Percent Asbestos:**
Homogeneous						
fine powder, gray	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

NVLAP TESTING
NVLAP Lab Code: 200741-0

LabCor Portland Inc

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Client: Maul Foster & Alongi
109 E 13th SE
Vancouver, WA 98660

Report Number: 194745R01
Report Date: 08/23/2019

P.O. No: n/a

Job Number: **194745**
Project Name: Tristar (Mead)
Project Number: 1332.03.03-01C
Project Notes:

Client Sample ID: **B1-S-081419-0.5** **Sample ID:** S9 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Grab **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

Client Sample ID: **B2-S-081419-0.5** **Sample ID:** S10 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Grab **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fine powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	3 %	-	-	-	-	97 %

Client Sample ID: **B3-S-081419-0.5** **Sample ID:** S11 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Grab **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

Client Sample ID: **B5-S-081419-0.5** **Sample ID:** S12 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Grab **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

NVLAP TESTING
NVLAP Lab Code: 200741-0

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Client: Maul Foster & Alongi
109 E 13th SE
Vancouver, WA 98660

Report Number: 194745R01
Report Date: 08/23/2019

P.O. No: n/a

Job Number: **194745**
Project Name: Tristar (Mead)
Project Number: 1332.03.03-01C
Project Notes:

Client Sample ID: **B6-S-081419-0.5** **Sample ID:** S13 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Grab **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fine powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **B9-S-081419-0.5** **Sample ID:** S14 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Grab **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	2 %	-	-	-	-	98 %

Client Sample ID: **B10-S-081419-0.5** **Sample ID:** S15 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Grab **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular powder, brown	100 %	-	Trace	-		**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **B11-S-081419-0.5** **Sample ID:** S16 **Date Analyzed:** 08/23/2019
Client Sample Description: Surface Soil Collection Depth 0.5ft Grab **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular powder, brown	100 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	2 %	-	-	-	-	98 %

NVLAP TESTING
NVLAP Lab Code: 200741-0

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Client: Maul Foster & Alongi
109 E 13th SE
Vancouver, WA 98660

Report Number: 194745R01
Report Date: 08/23/2019

P.O. No: n/a

Job Number: **194745**
Project Name: Tristar (Mead)
Project Number: 1332.03.03-01C
Project Notes:

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per 40 CFR 763 Subpart E, Appendix E, PLM. This report and the data contained therein cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

- "NAD" is No Asbestos Detected.
- Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
- Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
- Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
- The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: >0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
- This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:

x

Tim Cammann
Analyst

NVLAP TESTING
NVLAP Lab Code: 200741-0

ANALYTICAL REPORT

August 26, 2019

Maul Foster & Alongi- Coeur d Alene, ID

Sample Delivery Group:	L1129818
Samples Received:	08/16/2019
Project Number:	1332.03.01-01
Description:	Keiser Meade
Site:	TRISTAR/KEISER
Report To:	Julianna Wetmore 601 East Front Avenue, Suite 202 Coeur d'Alene, ID 83814

Entire Report Reviewed By: Brian Ford

Brian Ford
Project Manager

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 Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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

B1-S-081419-1.0 L1129818-01 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 10:14 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332923	1	08/23/19 07:33	08/23/19 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331405	1	08/21/19 13:36	08/22/19 10:16	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 02:06	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 15:45	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1331829	1	08/20/19 16:46	08/23/19 17:04	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332605	1	08/21/19 21:41	08/22/19 02:20	DMG	Mt. Juliet, TN

B1-S-081419-4.0 L1129818-02 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 10:24 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332923	1	08/23/19 07:33	08/23/19 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331405	1	08/21/19 13:36	08/22/19 11:02	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 02:35	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 15:47	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1331829	1	08/20/19 16:46	08/23/19 17:19	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332605	1	08/21/19 21:41	08/22/19 02:41	DMG	Mt. Juliet, TN

B2-S-081419-1.0 L1129818-03 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 11:02 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332923	1	08/23/19 07:33	08/23/19 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331405	1	08/21/19 13:36	08/22/19 10:22	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 02:50	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 15:55	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1331829	1	08/20/19 16:46	08/23/19 17:34	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 13:47	DMG	Mt. Juliet, TN

B2-S-081419-4.0 L1129818-04 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 11:10 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332923	1	08/23/19 07:33	08/23/19 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331405	1	08/21/19 13:36	08/22/19 10:23	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 03:35	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 15:58	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 07:38	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 14:09	DMG	Mt. Juliet, TN

B3-S-081419-1.0 L1129818-05 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 11:36 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332923	1	08/23/19 07:33	08/23/19 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331405	1	08/21/19 13:36	08/22/19 10:24	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 03:50	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:00	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 07:50	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	5	08/21/19 17:24	08/23/19 20:12	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 12:41	DMG	Mt. Juliet, TN

B3-S-081419-4.0 L1129818-06 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 11:40 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332923	1	08/23/19 07:33	08/23/19 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331405	1	08/21/19 13:36	08/22/19 11:03	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 04:34	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 15:32	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 08:03	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 14:31	DMG	Mt. Juliet, TN

B4-S-081419-1.0 L1129818-07 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 11:55 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331405	1	08/21/19 13:36	08/22/19 10:27	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 04:49	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:03	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 08:15	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 14:53	LEA	Mt. Juliet, TN

B4-S-081419-4.0 L1129818-08 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 12:02 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:32	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 05:04	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:06	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 08:28	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 15:15	LEA	Mt. Juliet, TN

B5-S-081419-1.0 L1129818-09 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 12:10 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:44	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 05:19	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:08	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 08:40	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/23/19 18:32	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 15:37	LEA	Mt. Juliet, TN

B5-S-081419-4.0 L1129818-10 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 12:15 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:46	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 05:34	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:11	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 08:52	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 15:59	LEA	Mt. Juliet, TN

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

B6-S-081419-1.0 L1129818-11 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 12:50 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:47	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 05:49	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:13	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 09:05	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/23/19 19:15	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 16:21	LEA	Mt. Juliet, TN

B6-S-081419-4.0 L1129818-12 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 13:00 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:48	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 06:04	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:16	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 09:17	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 16:43	LEA	Mt. Juliet, TN

B7-S-081419-1.0 L1129818-13 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 13:30 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:49	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 06:19	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:19	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332522	25	08/14/19 13:30	08/22/19 05:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1	08/14/19 13:30	08/21/19 05:19	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1	08/14/19 13:30	08/22/19 02:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	200	08/21/19 17:25	08/23/19 15:37	FM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 09:30	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/23/19 19:29	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	20	08/22/19 06:24	08/22/19 17:48	LEA	Mt. Juliet, TN

B7-S-081419-2.5 L1129818-14 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 13:40 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:52	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 06:34	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:27	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332522	25	08/20/19 10:54	08/22/19 05:52	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1	08/20/19 10:54	08/21/19 05:40	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1	08/20/19 10:54	08/22/19 01:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	1	08/21/19 17:25	08/23/19 15:56	FM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 10:07	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/24/19 16:23	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 17:04	LEA	Mt. Juliet, TN

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

B7-S-081419-4.0 L1129818-15 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 13:50 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:53	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 06:49	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:29	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332522	26.5	08/14/19 13:50	08/22/19 06:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1.07	08/14/19 13:50	08/21/19 06:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1.06	08/14/19 13:50	08/22/19 01:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	1	08/21/19 17:25	08/22/19 19:58	KLM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 10:20	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332888	1	08/22/19 06:24	08/22/19 17:26	LEA	Mt. Juliet, TN

B7-S-081419-7.0 L1129818-16 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 14:00 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332924	1	08/23/19 07:21	08/23/19 07:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:54	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	.9231905	08/22/19 00:05	08/22/19 07:33	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:32	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332522	25	08/14/19 14:00	08/22/19 06:33	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1	08/14/19 14:00	08/21/19 06:24	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1	08/14/19 14:00	08/22/19 01:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	1	08/21/19 17:25	08/23/19 16:08	FM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 10:32	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 14:34	DMG	Mt. Juliet, TN

B8-S-081419-2.5 L1129818-17 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 14:20 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:55	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 07:48	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:34	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	1	08/21/19 17:25	08/22/19 20:23	KLM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 10:45	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 14:55	LEA	Mt. Juliet, TN

B8-S-081419-9.5 L1129818-18 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 14:30 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:56	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 08:03	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:37	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332522	25	08/14/19 14:30	08/22/19 07:19	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1	08/14/19 14:30	08/21/19 06:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1	08/14/19 14:30	08/22/19 00:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	1	08/21/19 17:25	08/22/19 20:10	KLM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 10:57	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 15:16	LEA	Mt. Juliet, TN

B9-S-081419-2.0 L1129818-19 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 15:00	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 13:57	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 08:18	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:40	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 11:09	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/24/19 14:36	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 13:32	DMG	Mt. Juliet, TN

B10-S-081419-1.0 L1129818-20 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 15:20	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 14:00	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330936	1	08/22/19 00:05	08/22/19 08:48	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331818	1	08/20/19 15:57	08/21/19 16:42	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	10	08/21/19 17:25	08/23/19 16:16	FM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 11:22	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/23/19 18:46	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 15:36	LEA	Mt. Juliet, TN

DU2-S-081519 L1129818-22 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/15/19 09:30	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 14:01	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 13:33	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:12	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 11:34	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/23/19 19:01	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/23/19 02:54	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	20	08/22/19 09:24	08/23/19 13:02	AO	Mt. Juliet, TN

DU3A-S-081519 L1129818-23 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/15/19 11:10	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 14:05	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 14:48	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:14	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332522	25	08/15/19 11:10	08/22/19 07:39	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1	08/15/19 11:10	08/21/19 07:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1	08/15/19 11:10	08/22/19 00:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	100	08/21/19 17:25	08/23/19 16:03	FM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 11:47	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/23/19 19:43	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	5	08/22/19 09:24	08/23/19 05:43	AO	Mt. Juliet, TN

DU4-S-081519 L1129818-24 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 10:10 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 14:06	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 15:26	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	5	08/20/19 16:04	08/21/19 21:02	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/22/19 11:59	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332641	1	08/21/19 17:24	08/23/19 19:58	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/22/19 23:22	AO	Mt. Juliet, TN

DU5A-S-081519 L1129818-25 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 10:15 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 14:07	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 16:04	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:25	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 14:21	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	5	08/21/19 17:33	08/23/19 20:03	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/23/19 04:39	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	20	08/22/19 09:24	08/23/19 13:45	AO	Mt. Juliet, TN

DU5B-S-081519 L1129818-26 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 10:45 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	5	08/20/19 08:00	08/21/19 15:43	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	5	08/21/19 09:00	08/22/19 08:52	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:28	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 13:12	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	2	08/21/19 17:33	08/23/19 20:17	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	20	08/22/19 09:24	08/23/19 14:07	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	5	08/22/19 09:24	08/23/19 05:00	AO	Mt. Juliet, TN

DU6-S-081519 L1129818-27 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 11:25 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 14:11	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	10	08/21/19 09:00	08/22/19 09:27	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:30	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	100	08/21/19 17:25	08/23/19 16:30	FM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 13:26	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	5	08/21/19 17:33	08/23/19 20:31	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	10	08/22/19 09:24	08/23/19 06:25	AO	Mt. Juliet, TN

DU3B-S-081519-A L1129818-28 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 13:15 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 14:12	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	.9391435	08/21/19 09:00	08/21/19 17:58	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 16:58	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 11:48	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/23/19 03:15	AO	Mt. Juliet, TN

DU3B-S-081519-B L1129818-29 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 13:25 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1331437	1	08/20/19 08:00	08/21/19 14:14	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 18:36	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:33	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 12:30	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/23/19 03:36	AO	Mt. Juliet, TN

DU3B-S-081519-C L1129818-30 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 13:35 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:34	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 19:14	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:36	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 12:02	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/23/19 01:50	AO	Mt. Juliet, TN

SS1-S-081519 L1129818-31 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 12:45 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:35	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 21:08	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:39	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	50	08/21/19 17:25	08/23/19 16:43	FM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 12:44	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/23/19 04:18	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	20	08/22/19 09:24	08/23/19 13:24	AO	Mt. Juliet, TN

SS2-S-081519 L1129818-32 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 13:00 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:36	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 21:46	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:41	EL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/23/19 03:57	AO	Mt. Juliet, TN

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

SS3-S-081519 L1129818-33 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/15/19 12:55	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:42	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	19.04037	08/21/19 09:00	08/22/19 10:03	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:44	EL	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	1	08/22/19 09:24	08/22/19 23:43	AO	Mt. Juliet, TN

B10-S-081419-3.5 L1129818-34 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 15:25	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332645	100	08/21/19 17:25	08/23/19 15:50	FM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 13:40	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 20:47	LEA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	20	08/22/19 07:10	08/22/19 21:42	LEA	Mt. Juliet, TN

B10-S-081419-4.0 L1129818-35 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 15:30	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:44	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 23:02	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:46	EL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332942	10	08/22/19 11:08	08/23/19 07:54	KLM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/25/19 14:42	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 15:57	LEA	Mt. Juliet, TN

B11-S-081419-1.0 L1129818-36 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 16:00	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:45	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/21/19 23:40	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:54	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332522	25	08/14/19 16:00	08/22/19 08:24	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1	08/14/19 16:00	08/21/19 07:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1	08/14/19 16:00	08/22/19 00:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332942	1	08/22/19 11:08	08/23/19 03:18	KLM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 10:53	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1332873	1	08/22/19 06:08	08/23/19 00:28	AAT	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 16:18	LEA	Mt. Juliet, TN

B11-S-081419-3.0 L1129818-37 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 16:10	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:46	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/22/19 00:18	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:57	EL	Mt. Juliet, TN

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

B11-S-081419-3.0 L1129818-37 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 16:10	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332707	35	08/14/19 16:10	08/22/19 22:42	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1.4	08/14/19 16:10	08/21/19 07:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1.4	08/14/19 16:10	08/21/19 23:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332942	1	08/22/19 11:08	08/23/19 03:32	KLM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 11:07	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1333354	1	08/22/19 16:31	08/23/19 03:33	AAT	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 16:38	LEA	Mt. Juliet, TN

B12-S-081419-1.0 L1129818-38 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 16:20	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332928	1	08/22/19 20:27	08/22/19 20:33	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:47	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	52	08/21/19 09:00	08/22/19 00:56	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 17:59	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332707	30.5	08/14/19 16:20	08/22/19 23:06	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1.22	08/14/19 16:20	08/21/19 08:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1.22	08/14/19 16:20	08/21/19 23:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332942	1	08/22/19 11:08	08/23/19 03:45	KLM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 11:21	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1333354	1	08/22/19 16:31	08/23/19 03:55	AAT	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 16:59	LEA	Mt. Juliet, TN

B12-S-081419-4.0 L1129818-39 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 16:30	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332928	1	08/22/19 20:27	08/22/19 20:33	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:48	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	1	08/21/19 09:00	08/22/19 01:33	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 18:02	EL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1332707	38	08/14/19 16:30	08/22/19 23:54	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332008	1.52	08/14/19 16:30	08/21/19 08:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332648	1.52	08/14/19 16:30	08/21/19 23:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1332942	1	08/22/19 11:08	08/23/19 03:58	KLM	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 11:34	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1333354	1	08/22/19 16:31	08/23/19 04:18	AAT	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332890	1	08/22/19 07:10	08/22/19 17:20	LEA	Mt. Juliet, TN

TRIP BLANK L1129818-40 GW

Collected by	Collected date/time	Received date/time
L. Pritzl	08/14/19 08:00	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1332861	1	08/22/19 01:09	08/22/19 01:09	JHH	Mt. Juliet, TN

DU1-S-081519 L1129818-41 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/15/19 08:45	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332928	1	08/22/19 20:27	08/22/19 20:33	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1333521	1	08/22/19 22:55	08/23/19 12:51	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1330937	10	08/21/19 09:00	08/22/19 10:39	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1331822	1	08/20/19 16:04	08/21/19 18:05	EL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	1	08/21/19 17:33	08/23/19 12:58	RAH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1332642	2	08/21/19 17:33	08/23/19 19:50	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1332946	5	08/22/19 09:24	08/23/19 05:22	AO	Mt. Juliet, TN

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

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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.

Brian Ford

Brian Ford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.6		1	08/23/2019 07:42	WG1332923

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0404	0.259	1	08/22/2019 10:16	WG1331405

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	29.3		0.270	1.03	1	08/22/2019 02:06	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	14.2		0.476	2.07	1	08/21/2019 15:45	WG1331818
Cadmium	U		0.0724	0.517	1	08/21/2019 15:45	WG1331818
Chromium	13.9		0.145	1.03	1	08/21/2019 15:45	WG1331818
Lead	24.9		0.197	0.517	1	08/21/2019 15:45	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00362	0.0176	1	08/23/2019 17:04	WG1331829
PCB 1221	U		0.00556	0.0176	1	08/23/2019 17:04	WG1331829
PCB 1232	U		0.00432	0.0176	1	08/23/2019 17:04	WG1331829
PCB 1242	U		0.00329	0.0176	1	08/23/2019 17:04	WG1331829
PCB 1248	0.0481		0.00326	0.0176	1	08/23/2019 17:04	WG1331829
PCB 1254	U		0.00488	0.0176	1	08/23/2019 17:04	WG1331829
PCB 1260	U		0.00511	0.0176	1	08/23/2019 17:04	WG1331829
PCB 1268	U		0.00188	0.0176	1	08/23/2019 17:04	WG1331829
(S) Decachlorobiphenyl	*89.6*			*10.0-135*		*08/23/2019 17:04*	WG1331829
(S) Tetrachloro-m-xylene	*81.4*			*10.0-139*		*08/23/2019 17:04*	WG1331829

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00526	J	0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Acenaphthene	0.00216	J	0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Acenaphthylene	U		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Benzo(a)anthracene	0.0224		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Benzo(a)pyrene	0.0360		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Benzo(b)fluoranthene	0.0559		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Benzo(g,h,i)perylene	0.0467		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Benzo(k)fluoranthene	0.0200		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Chrysene	0.0283		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Dibenz(a,h)anthracene	0.0106		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Fluoranthene	0.0339		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Fluorene	0.00149	J	0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Indeno(1,2,3-cd)pyrene	0.0338		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Naphthalene	0.00230	J	0.00207	0.0207	1	08/22/2019 02:20	WG1332605
Phenanthrene	0.0239		0.000621	0.00621	1	08/22/2019 02:20	WG1332605
Pyrene	0.0359		0.000621	0.00621	1	08/22/2019 02:20	WG1332605

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	0.00210	J	0.00207	0.0207	1	08/22/2019 02:20	WG1332605
2-Methylnaphthalene	0.00333	J	0.00207	0.0207	1	08/22/2019 02:20	WG1332605
2-Chloronaphthalene	U		0.00207	0.0207	1	08/22/2019 02:20	WG1332605
(S) Nitrobenzene-d5	*124*			*14.0-149*		*08/22/2019 02:20*	WG1332605
(S) 2-Fluorobiphenyl	*99.9*			*34.0-125*		*08/22/2019 02:20*	WG1332605
(S) p-Terphenyl-d14	*106*			*23.0-120*		*08/22/2019 02:20*	WG1332605

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	08/23/2019 07:42	WG1332923

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0402	0.258	1	08/22/2019 11:02	WG1331405

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	4.45		0.269	1.03	1	08/22/2019 02:35	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.77		0.474	2.06	1	08/21/2019 15:47	WG1331818
Cadmium	U		0.0722	0.516	1	08/21/2019 15:47	WG1331818
Chromium	9.20		0.144	1.03	1	08/21/2019 15:47	WG1331818
Lead	6.30		0.196	0.516	1	08/21/2019 15:47	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00361	0.0175	1	08/23/2019 17:19	WG1331829
PCB 1221	U		0.00554	0.0175	1	08/23/2019 17:19	WG1331829
PCB 1232	U		0.00430	0.0175	1	08/23/2019 17:19	WG1331829
PCB 1242	U		0.00328	0.0175	1	08/23/2019 17:19	WG1331829
PCB 1248	U		0.00325	0.0175	1	08/23/2019 17:19	WG1331829
PCB 1254	U		0.00487	0.0175	1	08/23/2019 17:19	WG1331829
PCB 1260	U		0.00509	0.0175	1	08/23/2019 17:19	WG1331829
PCB 1268	U		0.00188	0.0175	1	08/23/2019 17:19	WG1331829
(S) Decachlorobiphenyl	*95.1*			*10.0-135*		*08/23/2019 17:19*	WG1331829
(S) Tetrachloro-m-xylene	*82.0*			*10.0-139*		*08/23/2019 17:19*	WG1331829

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Acenaphthene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Acenaphthylene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Benzo(a)anthracene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Benzo(a)pyrene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Benzo(b)fluoranthene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Benzo(g,h,i)perylene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Benzo(k)fluoranthene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Chrysene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Dibenz(a,h)anthracene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Fluoranthene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Fluorene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Indeno(1,2,3-cd)pyrene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Naphthalene	U		0.00206	0.0206	1	08/22/2019 02:41	WG1332605
Phenanthrene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605
Pyrene	U		0.000619	0.00619	1	08/22/2019 02:41	WG1332605

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00206	0.0206	1	08/22/2019 02:41	WG1332605
2-Methylnaphthalene	U		0.00206	0.0206	1	08/22/2019 02:41	WG1332605
2-Chloronaphthalene	U		0.00206	0.0206	1	08/22/2019 02:41	WG1332605
(S) Nitrobenzene-d5	*127*			*14.0-149*		*08/22/2019 02:41*	WG1332605
(S) 2-Fluorobiphenyl	*106*			*34.0-125*		*08/22/2019 02:41*	WG1332605
(S) p-Terphenyl-d14	*117*			*23.0-120*		*08/22/2019 02:41*	WG1332605

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.0		1	08/23/2019 07:42	WG1332923

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0411	0.263	1	08/22/2019 10:22	WG1331405

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	20.8	J6	0.275	1.05	1	08/22/2019 02:50	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	16.5		0.484	2.11	1	08/21/2019 15:55	WG1331818
Cadmium	U		0.0737	0.526	1	08/21/2019 15:55	WG1331818
Chromium	14.3		0.147	1.05	1	08/21/2019 15:55	WG1331818
Lead	10.9		0.200	0.526	1	08/21/2019 15:55	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00369	0.0179	1	08/23/2019 17:34	WG1331829
PCB 1221	U		0.00565	0.0179	1	08/23/2019 17:34	WG1331829
PCB 1232	U		0.00439	0.0179	1	08/23/2019 17:34	WG1331829
PCB 1242	U		0.00335	0.0179	1	08/23/2019 17:34	WG1331829
PCB 1248	U		0.00332	0.0179	1	08/23/2019 17:34	WG1331829
PCB 1254	U		0.00497	0.0179	1	08/23/2019 17:34	WG1331829
PCB 1260	U		0.00520	0.0179	1	08/23/2019 17:34	WG1331829
PCB 1268	U		0.00192	0.0179	1	08/23/2019 17:34	WG1331829
(S) Decachlorobiphenyl	*94.8*			*10.0-135*		*08/23/2019 17:34*	WG1331829
(S) Tetrachloro-m-xylene	*81.6*			*10.0-139*		*08/23/2019 17:34*	WG1331829

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Acenaphthene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Acenaphthylene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Benzo(a)anthracene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Benzo(a)pyrene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Benzo(b)fluoranthene	0.000771	J	0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Benzo(g,h,i)perylene	0.000777	J	0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Benzo(k)fluoranthene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Chrysene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Dibenz(a,h)anthracene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Fluoranthene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Fluorene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Indeno(1,2,3-cd)pyrene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Naphthalene	0.00398	J	0.00211	0.0211	1	08/22/2019 13:47	WG1332888
Phenanthrene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888
Pyrene	U		0.000632	0.00632	1	08/22/2019 13:47	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00211	0.0211	1	08/22/2019 13:47	WG1332888
2-Methylnaphthalene	U		0.00211	0.0211	1	08/22/2019 13:47	WG1332888
2-Chloronaphthalene	U		0.00211	0.0211	1	08/22/2019 13:47	WG1332888
(S) Nitrobenzene-d5	*87.0*			*14.0-149*		*08/22/2019 13:47*	WG1332888
(S) 2-Fluorobiphenyl	*88.1*			*34.0-125*		*08/22/2019 13:47*	WG1332888
(S) p-Terphenyl-d14	*94.8*			*23.0-120*		*08/22/2019 13:47*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.5		1	08/23/2019 07:42	WG1332923

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0404	0.259	1	08/22/2019 10:23	WG1331405

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	6.31		0.270	1.04	1	08/22/2019 03:35	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.9		0.477	2.07	1	08/21/2019 15:58	WG1331818
Cadmium	U		0.0725	0.518	1	08/21/2019 15:58	WG1331818
Chromium	11.9		0.145	1.04	1	08/21/2019 15:58	WG1331818
Lead	7.47		0.197	0.518	1	08/21/2019 15:58	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00363	0.0176	1	08/22/2019 07:38	WG1332641
PCB 1221	U		0.00556	0.0176	1	08/22/2019 07:38	WG1332641
PCB 1232	U		0.00432	0.0176	1	08/22/2019 07:38	WG1332641
PCB 1242	U		0.00329	0.0176	1	08/22/2019 07:38	WG1332641
PCB 1248	U		0.00326	0.0176	1	08/22/2019 07:38	WG1332641
PCB 1254	U		0.00489	0.0176	1	08/22/2019 07:38	WG1332641
PCB 1260	U		0.00512	0.0176	1	08/22/2019 07:38	WG1332641
PCB 1268	U		0.00189	0.0176	1	08/22/2019 07:38	WG1332641
(S) Decachlorobiphenyl	*85.1*			*10.0-135*		*08/22/2019 07:38*	WG1332641
(S) Tetrachloro-m-xylene	*89.0*			*10.0-139*		*08/22/2019 07:38*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Acenaphthene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Acenaphthylene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Benzo(a)anthracene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Benzo(a)pyrene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Benzo(b)fluoranthene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Benzo(g,h,i)perylene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Benzo(k)fluoranthene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Chrysene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Dibenz(a,h)anthracene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Fluoranthene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Fluorene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Indeno(1,2,3-cd)pyrene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Naphthalene	U		0.00207	0.0207	1	08/22/2019 14:09	WG1332888
Phenanthrene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888
Pyrene	U		0.000622	0.00622	1	08/22/2019 14:09	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 14:09	WG1332888
2-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 14:09	WG1332888
2-Chloronaphthalene	U		0.00207	0.0207	1	08/22/2019 14:09	WG1332888
(S) Nitrobenzene-d5	*83.9*			*14.0-149*		*08/22/2019 14:09*	WG1332888
(S) 2-Fluorobiphenyl	*84.1*			*34.0-125*		*08/22/2019 14:09*	WG1332888
(S) p-Terphenyl-d14	*90.2*			*23.0-120*		*08/22/2019 14:09*	WG1332888

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

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	08/23/2019 07:42	WG1332923

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0402	0.258	1	08/22/2019 10:24	WG1331405

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	16.1		0.269	1.03	1	08/22/2019 03:50	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	13.1		0.474	2.06	1	08/21/2019 16:00	WG1331818
Cadmium	U		0.0721	0.515	1	08/21/2019 16:00	WG1331818
Chromium	11.6		0.144	1.03	1	08/21/2019 16:00	WG1331818
Lead	9.25		0.196	0.515	1	08/21/2019 16:00	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00361	0.0175	1	08/22/2019 07:50	WG1332641
PCB 1221	U		0.00553	0.0175	1	08/22/2019 07:50	WG1332641
PCB 1232	U		0.00430	0.0175	1	08/22/2019 07:50	WG1332641
PCB 1242	U		0.00328	0.0175	1	08/22/2019 07:50	WG1332641
PCB 1248	4.25		0.0162	0.0876	5	08/23/2019 20:12	WG1332641
PCB 1254	U		0.00486	0.0175	1	08/22/2019 07:50	WG1332641
PCB 1260	U		0.00509	0.0175	1	08/22/2019 07:50	WG1332641
PCB 1268	U		0.00188	0.0175	1	08/22/2019 07:50	WG1332641
(S) Decachlorobiphenyl	*88.9*			*10.0-135*		*08/22/2019 07:50*	WG1332641
(S) Decachlorobiphenyl	*111*			*10.0-135*		*08/23/2019 20:12*	WG1332641
(S) Tetrachloro-m-xylene	*92.1*			*10.0-139*		*08/23/2019 20:12*	WG1332641
(S) Tetrachloro-m-xylene	*91.9*			*10.0-139*		*08/22/2019 07:50*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00164	J	0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Acenaphthene	0.000758	J	0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Acenaphthylene	U		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Benzo(a)anthracene	0.0138		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Benzo(a)pyrene	0.0210		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Benzo(b)fluoranthene	0.0303		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Benzo(g,h,i)perylene	0.0264		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Benzo(k)fluoranthene	0.00899		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Chrysene	0.0154		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Dibenz(a,h)anthracene	0.00555	J	0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Fluoranthene	0.0201		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Fluorene	U		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Indeno(1,2,3-cd)pyrene	0.0175		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Naphthalene	U		0.00206	0.0206	1	08/22/2019 12:41	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	0.00823		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
Pyrene	0.0219		0.000618	0.00618	1	08/22/2019 12:41	WG1332888
1-Methylnaphthalene	U		0.00206	0.0206	1	08/22/2019 12:41	WG1332888
2-Methylnaphthalene	U		0.00206	0.0206	1	08/22/2019 12:41	WG1332888
2-Chloronaphthalene	U		0.00206	0.0206	1	08/22/2019 12:41	WG1332888
(S) Nitrobenzene-d5	*85.4*			*14.0-149*		*08/22/2019 12:41*	WG1332888
(S) 2-Fluorobiphenyl	*85.0*			*34.0-125*		*08/22/2019 12:41*	WG1332888
(S) p-Terphenyl-d14	*95.0*			*23.0-120*		*08/22/2019 12:41*	WG1332888

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

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	08/23/2019 07:42	WG1332923

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0403	0.258	1	08/22/2019 11:03	WG1331405

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	4.40		0.270	1.03	1	08/22/2019 04:34	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.0		0.475	2.07	1	08/21/2019 15:32	WG1331818
Cadmium	U		0.0723	0.517	1	08/21/2019 15:32	WG1331818
Chromium	10.4	O1	0.145	1.03	1	08/21/2019 15:32	WG1331818
Lead	7.36		0.196	0.517	1	08/21/2019 15:32	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00362	0.0176	1	08/22/2019 08:03	WG1332641
PCB 1221	U		0.00555	0.0176	1	08/22/2019 08:03	WG1332641
PCB 1232	U		0.00431	0.0176	1	08/22/2019 08:03	WG1332641
PCB 1242	U		0.00329	0.0176	1	08/22/2019 08:03	WG1332641
PCB 1248	U		0.00325	0.0176	1	08/22/2019 08:03	WG1332641
PCB 1254	U		0.00488	0.0176	1	08/22/2019 08:03	WG1332641
PCB 1260	U		0.00510	0.0176	1	08/22/2019 08:03	WG1332641
PCB 1268	U		0.00188	0.0176	1	08/22/2019 08:03	WG1332641
(S) Decachlorobiphenyl	*83.4*			*10.0-135*		*08/22/2019 08:03*	WG1332641
(S) Tetrachloro-m-xylene	*87.1*			*10.0-139*		*08/22/2019 08:03*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Acenaphthene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Acenaphthylene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Benzo(a)anthracene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Benzo(a)pyrene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Benzo(b)fluoranthene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Benzo(g,h,i)perylene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Benzo(k)fluoranthene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Chrysene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Dibenz(a,h)anthracene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Fluoranthene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Fluorene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Indeno(1,2,3-cd)pyrene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Naphthalene	U		0.00207	0.0207	1	08/22/2019 14:31	WG1332888
Phenanthrene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888
Pyrene	U		0.000620	0.00620	1	08/22/2019 14:31	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 14:31	WG1332888
2-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 14:31	WG1332888
2-Chloronaphthalene	U		0.00207	0.0207	1	08/22/2019 14:31	WG1332888
(S) Nitrobenzene-d5	*85.4*			*14.0-149*		*08/22/2019 14:31*	WG1332888
(S) 2-Fluorobiphenyl	*86.5*			*34.0-125*		*08/22/2019 14:31*	WG1332888
(S) p-Terphenyl-d14	*93.3*			*23.0-120*		*08/22/2019 14:31*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0412	0.264	1	08/22/2019 10:27	WG1331405

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	18.5		0.276	1.06	1	08/22/2019 04:49	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	19.0		0.486	2.11	1	08/21/2019 16:03	WG1331818
Cadmium	U		0.0739	0.528	1	08/21/2019 16:03	WG1331818
Chromium	12.4		0.148	1.06	1	08/21/2019 16:03	WG1331818
Lead	10.4		0.201	0.528	1	08/21/2019 16:03	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00370	0.0180	1	08/22/2019 08:15	WG1332641
PCB 1221	U		0.00567	0.0180	1	08/22/2019 08:15	WG1332641
PCB 1232	U		0.00440	0.0180	1	08/22/2019 08:15	WG1332641
PCB 1242	U		0.00336	0.0180	1	08/22/2019 08:15	WG1332641
PCB 1248	U		0.00333	0.0180	1	08/22/2019 08:15	WG1332641
PCB 1254	U		0.00498	0.0180	1	08/22/2019 08:15	WG1332641
PCB 1260	U		0.00522	0.0180	1	08/22/2019 08:15	WG1332641
PCB 1268	U		0.00192	0.0180	1	08/22/2019 08:15	WG1332641
(S) Decachlorobiphenyl	*88.4*			*10.0-135*		*08/22/2019 08:15*	WG1332641
(S) Tetrachloro-m-xylene	*89.3*			*10.0-139*		*08/22/2019 08:15*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Acenaphthene	U		0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Acenaphthylene	U		0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Benzo(a)anthracene	0.00396	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Benzo(a)pyrene	0.00500	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Benzo(b)fluoranthene	0.00742		0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Benzo(g,h,i)perylene	0.00448	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Benzo(k)fluoranthene	0.00215	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Chrysene	0.00476	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Dibenz(a,h)anthracene	0.00104	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Fluoranthene	0.00507	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Fluorene	U		0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Indeno(1,2,3-cd)pyrene	0.00350	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Naphthalene	U		0.00211	0.0211	1	08/22/2019 14:53	WG1332888
Phenanthrene	0.00241	B J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888
Pyrene	0.00592	J	0.000634	0.00634	1	08/22/2019 14:53	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00211	0.0211	1	08/22/2019 14:53	WG1332888
2-Methylnaphthalene	U		0.00211	0.0211	1	08/22/2019 14:53	WG1332888
2-Chloronaphthalene	U		0.00211	0.0211	1	08/22/2019 14:53	WG1332888
(S) Nitrobenzene-d5	*84.1*			*14.0-149*		*08/22/2019 14:53*	WG1332888
(S) 2-Fluorobiphenyl	*86.8*			*34.0-125*		*08/22/2019 14:53*	WG1332888
(S) p-Terphenyl-d14	*96.6*			*23.0-120*		*08/22/2019 14:53*	WG1332888

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

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0411	0.263	1	08/23/2019 12:32	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	12.4		0.275	1.05	1	08/22/2019 05:04	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.3		0.485	2.11	1	08/21/2019 16:06	WG1331818
Cadmium	U		0.0737	0.527	1	08/21/2019 16:06	WG1331818
Chromium	16.4		0.147	1.05	1	08/21/2019 16:06	WG1331818
Lead	7.79		0.200	0.527	1	08/21/2019 16:06	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00369	0.0179	1	08/22/2019 08:28	WG1332641
PCB 1221	U		0.00566	0.0179	1	08/22/2019 08:28	WG1332641
PCB 1232	U		0.00439	0.0179	1	08/22/2019 08:28	WG1332641
PCB 1242	U		0.00335	0.0179	1	08/22/2019 08:28	WG1332641
PCB 1248	U		0.00332	0.0179	1	08/22/2019 08:28	WG1332641
PCB 1254	U		0.00497	0.0179	1	08/22/2019 08:28	WG1332641
PCB 1260	U		0.00520	0.0179	1	08/22/2019 08:28	WG1332641
PCB 1268	U		0.00192	0.0179	1	08/22/2019 08:28	WG1332641
(S) Decachlorobiphenyl	*84.7*			*10.0-135*		*08/22/2019 08:28*	WG1332641
(S) Tetrachloro-m-xylene	*86.7*			*10.0-139*		*08/22/2019 08:28*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Acenaphthene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Acenaphthylene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Benzo(a)anthracene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Benzo(a)pyrene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Benzo(b)fluoranthene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Benzo(g,h,i)perylene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Benzo(k)fluoranthene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Chrysene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Dibenz(a,h)anthracene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Fluoranthene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Fluorene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Indeno(1,2,3-cd)pyrene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Naphthalene	U		0.00211	0.0211	1	08/22/2019 15:15	WG1332888
Phenanthrene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888
Pyrene	U		0.000632	0.00632	1	08/22/2019 15:15	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00211	0.0211	1	08/22/2019 15:15	WG1332888
2-Methylnaphthalene	U		0.00211	0.0211	1	08/22/2019 15:15	WG1332888
2-Chloronaphthalene	U		0.00211	0.0211	1	08/22/2019 15:15	WG1332888
(S) Nitrobenzene-d5	*88.9*			*14.0-149*		*08/22/2019 15:15*	WG1332888
(S) 2-Fluorobiphenyl	*90.8*			*34.0-125*		*08/22/2019 15:15*	WG1332888
(S) p-Terphenyl-d14	*98.3*			*23.0-120*		*08/22/2019 15:15*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.6		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0408	0.262	1	08/21/2019 13:44	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	9.49		0.273	1.05	1	08/22/2019 05:19	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.4		0.481	2.09	1	08/21/2019 16:08	WG1331818
Cadmium	U		0.0732	0.523	1	08/21/2019 16:08	WG1331818
Chromium	12.7		0.146	1.05	1	08/21/2019 16:08	WG1331818
Lead	8.67		0.199	0.523	1	08/21/2019 16:08	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00366	0.0178	1	08/22/2019 08:40	WG1332641
PCB 1221	U		0.00562	0.0178	1	08/22/2019 08:40	WG1332641
PCB 1232	U		0.00436	0.0178	1	08/22/2019 08:40	WG1332641
PCB 1242	U		0.00333	0.0178	1	08/22/2019 08:40	WG1332641
PCB 1248	U		0.00330	0.0178	1	08/22/2019 08:40	WG1332641
PCB 1254	U		0.00494	0.0178	1	08/22/2019 08:40	WG1332641
PCB 1260	U		0.00517	0.0178	1	08/22/2019 08:40	WG1332641
PCB 1268	0.00822	J	0.00190	0.0178	1	08/23/2019 18:32	WG1332641
(S) Decachlorobiphenyl	*85.4*			*10.0-135*		*08/22/2019 08:40*	WG1332641
(S) Decachlorobiphenyl	*104*			*10.0-135*		*08/23/2019 18:32*	WG1332641
(S) Tetrachloro-m-xylene	*87.2*			*10.0-139*		*08/22/2019 08:40*	WG1332641
(S) Tetrachloro-m-xylene	*87.4*			*10.0-139*		*08/23/2019 18:32*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00637		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Acenaphthene	0.00483	J	0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Acenaphthylene	U		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Benzo(a)anthracene	0.0685		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Benzo(a)pyrene	0.0831		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Benzo(b)fluoranthene	0.110		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Benzo(g,h,i)perylene	0.0722		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Benzo(k)fluoranthene	0.0396		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Chrysene	0.0784		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Dibenz(a,h)anthracene	0.0183		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Fluoranthene	0.0993		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Fluorene	0.00208	J	0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Indeno(1,2,3-cd)pyrene	0.0604		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Naphthalene	U		0.00209	0.0209	1	08/22/2019 15:37	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	0.0415		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
Pyrene	0.103		0.000628	0.00628	1	08/22/2019 15:37	WG1332888
1-Methylnaphthalene	U		0.00209	0.0209	1	08/22/2019 15:37	WG1332888
2-Methylnaphthalene	U		0.00209	0.0209	1	08/22/2019 15:37	WG1332888
2-Chloronaphthalene	U		0.00209	0.0209	1	08/22/2019 15:37	WG1332888
(S) Nitrobenzene-d5	*86.2*			*14.0-149*		*08/22/2019 15:37*	WG1332888
(S) 2-Fluorobiphenyl	*87.4*			*34.0-125*		*08/22/2019 15:37*	WG1332888
(S) p-Terphenyl-d14	*95.3*			*23.0-120*		*08/22/2019 15:37*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0417	0.267	1	08/21/2019 13:46	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	11.9		0.279	1.07	1	08/22/2019 05:34	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	11.6		0.492	2.14	1	08/21/2019 16:11	WG1331818
Cadmium	U		0.0749	0.535	1	08/21/2019 16:11	WG1331818
Chromium	13.3		0.150	1.07	1	08/21/2019 16:11	WG1331818
Lead	8.78		0.203	0.535	1	08/21/2019 16:11	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00374	0.0182	1	08/22/2019 08:52	WG1332641
PCB 1221	U		0.00574	0.0182	1	08/22/2019 08:52	WG1332641
PCB 1232	U		0.00446	0.0182	1	08/22/2019 08:52	WG1332641
PCB 1242	U		0.00340	0.0182	1	08/22/2019 08:52	WG1332641
PCB 1248	U		0.00337	0.0182	1	08/22/2019 08:52	WG1332641
PCB 1254	U		0.00505	0.0182	1	08/22/2019 08:52	WG1332641
PCB 1260	U		0.00528	0.0182	1	08/22/2019 08:52	WG1332641
PCB 1268	U		0.00195	0.0182	1	08/22/2019 08:52	WG1332641
(S) Decachlorobiphenyl	*78.1*			*10.0-135*		*08/22/2019 08:52*	WG1332641
(S) Tetrachloro-m-xylene	*80.9*			*10.0-139*		*08/22/2019 08:52*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Acenaphthene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Acenaphthylene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Benzo(a)anthracene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Benzo(a)pyrene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Benzo(b)fluoranthene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Benzo(g,h,i)perylene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Benzo(k)fluoranthene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Chrysene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Dibenz(a,h)anthracene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Fluoranthene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Fluorene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Indeno(1,2,3-cd)pyrene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Naphthalene	U		0.00214	0.0214	1	08/22/2019 15:59	WG1332888
Phenanthrene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888
Pyrene	U		0.000642	0.00642	1	08/22/2019 15:59	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00214	0.0214	1	08/22/2019 15:59	WG1332888
2-Methylnaphthalene	U		0.00214	0.0214	1	08/22/2019 15:59	WG1332888
2-Chloronaphthalene	U		0.00214	0.0214	1	08/22/2019 15:59	WG1332888
(S) Nitrobenzene-d5	*86.7*			*14.0-149*		*08/22/2019 15:59*	WG1332888
(S) 2-Fluorobiphenyl	*88.2*			*34.0-125*		*08/22/2019 15:59*	WG1332888
(S) p-Terphenyl-d14	*96.3*			*23.0-120*		*08/22/2019 15:59*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.231	J	0.0461	0.296	1	08/21/2019 13:47	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	64.2		0.309	1.18	1	08/22/2019 05:49	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.77		0.544	2.36	1	08/21/2019 16:13	WG1331818
Cadmium	U		0.0828	0.591	1	08/21/2019 16:13	WG1331818
Chromium	9.61		0.166	1.18	1	08/21/2019 16:13	WG1331818
Lead	6.67		0.225	0.591	1	08/21/2019 16:13	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00414	0.0201	1	08/22/2019 09:05	WG1332641
PCB 1221	U		0.00635	0.0201	1	08/22/2019 09:05	WG1332641
PCB 1232	U		0.00493	0.0201	1	08/22/2019 09:05	WG1332641
PCB 1242	U		0.00376	0.0201	1	08/22/2019 09:05	WG1332641
PCB 1248	0.0229		0.00372	0.0201	1	08/23/2019 19:15	WG1332641
PCB 1254	U		0.00558	0.0201	1	08/22/2019 09:05	WG1332641
PCB 1260	U		0.00584	0.0201	1	08/22/2019 09:05	WG1332641
PCB 1268	0.00303	J	0.00215	0.0201	1	08/23/2019 19:15	WG1332641
(S) Decachlorobiphenyl	*86.9*			*10.0-135*		*08/23/2019 19:15*	WG1332641
(S) Decachlorobiphenyl	*74.4*			*10.0-135*		*08/22/2019 09:05*	WG1332641
(S) Tetrachloro-m-xylene	*84.1*			*10.0-139*		*08/23/2019 19:15*	WG1332641
(S) Tetrachloro-m-xylene	*83.8*			*10.0-139*		*08/22/2019 09:05*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Acenaphthene	U		0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Acenaphthylene	U		0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Benzo(a)anthracene	0.00266	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Benzo(a)pyrene	0.00300	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Benzo(b)fluoranthene	0.00389	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Benzo(g,h,i)perylene	0.00283	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Benzo(k)fluoranthene	0.00138	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Chrysene	0.00273	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Dibenz(a,h)anthracene	U		0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Fluoranthene	0.00363	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Fluorene	U		0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Indeno(1,2,3-cd)pyrene	0.00201	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Naphthalene	U		0.00236	0.0236	1	08/22/2019 16:21	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	0.00190	B J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
Pyrene	0.00397	J	0.000709	0.00709	1	08/22/2019 16:21	WG1332888
1-Methylnaphthalene	U		0.00236	0.0236	1	08/22/2019 16:21	WG1332888
2-Methylnaphthalene	U		0.00236	0.0236	1	08/22/2019 16:21	WG1332888
2-Chloronaphthalene	U		0.00236	0.0236	1	08/22/2019 16:21	WG1332888
(S) Nitrobenzene-d5	*84.8*			*14.0-149*		*08/22/2019 16:21*	WG1332888
(S) 2-Fluorobiphenyl	*87.4*			*34.0-125*		*08/22/2019 16:21*	WG1332888
(S) p-Terphenyl-d14	*91.3*			*23.0-120*		*08/22/2019 16:21*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0403	0.258	1	08/21/2019 13:48	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	31.2		0.270	1.03	1	08/22/2019 06:04	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.66		0.475	2.07	1	08/21/2019 16:16	WG1331818
Cadmium	U		0.0723	0.517	1	08/21/2019 16:16	WG1331818
Chromium	18.3		0.145	1.03	1	08/21/2019 16:16	WG1331818
Lead	6.28		0.196	0.517	1	08/21/2019 16:16	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00362	0.0176	1	08/22/2019 09:17	WG1332641
PCB 1221	U		0.00555	0.0176	1	08/22/2019 09:17	WG1332641
PCB 1232	U		0.00431	0.0176	1	08/22/2019 09:17	WG1332641
PCB 1242	U		0.00328	0.0176	1	08/22/2019 09:17	WG1332641
PCB 1248	U		0.00325	0.0176	1	08/22/2019 09:17	WG1332641
PCB 1254	U		0.00488	0.0176	1	08/22/2019 09:17	WG1332641
PCB 1260	U		0.00510	0.0176	1	08/22/2019 09:17	WG1332641
PCB 1268	U		0.00188	0.0176	1	08/22/2019 09:17	WG1332641
(S) Decachlorobiphenyl	*85.4*			*10.0-135*		*08/22/2019 09:17*	WG1332641
(S) Tetrachloro-m-xylene	*86.9*			*10.0-139*		*08/22/2019 09:17*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Acenaphthene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Acenaphthylene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Benzo(a)anthracene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Benzo(a)pyrene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Benzo(b)fluoranthene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Benzo(g,h,i)perylene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Benzo(k)fluoranthene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Chrysene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Dibenz(a,h)anthracene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Fluoranthene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Fluorene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Indeno(1,2,3-cd)pyrene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Naphthalene	U		0.00207	0.0207	1	08/22/2019 16:43	WG1332888
Phenanthrene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888
Pyrene	U		0.000620	0.00620	1	08/22/2019 16:43	WG1332888

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 16:43	WG1332888
2-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 16:43	WG1332888
2-Chloronaphthalene	U		0.00207	0.0207	1	08/22/2019 16:43	WG1332888
(S) Nitrobenzene-d5	*84.7*			*14.0-149*		*08/22/2019 16:43*	WG1332888
(S) 2-Fluorobiphenyl	*85.8*			*34.0-125*		*08/22/2019 16:43*	WG1332888
(S) p-Terphenyl-d14	*92.9*			*23.0-120*		*08/22/2019 16:43*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.5		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.348		0.0413	0.264	1	08/21/2019 13:49	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	61.0		0.276	1.06	1	08/22/2019 06:19	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.6		0.487	2.12	1	08/21/2019 16:19	WG1331818
Cadmium	U		0.0740	0.529	1	08/21/2019 16:19	WG1331818
Chromium	17.5		0.148	1.06	1	08/21/2019 16:19	WG1331818
Lead	14.3		0.201	0.529	1	08/21/2019 16:19	WG1331818

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.08	J	0.897	2.64	25	08/22/2019 05:32	WG1332522
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*08/22/2019 05:32*	WG1332522

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0145	0.0264	1	08/21/2019 05:19	WG1332008
Acrylonitrile	U		0.00201	0.0132	1	08/21/2019 05:19	WG1332008
Benzene	0.00339	B	0.000423	0.00106	1	08/21/2019 05:19	WG1332008
Bromobenzene	U		0.00111	0.0132	1	08/21/2019 05:19	WG1332008
Bromodichloromethane	U		0.000834	0.00264	1	08/21/2019 05:19	WG1332008
Bromoform	U		0.00633	0.0264	1	08/21/2019 05:19	WG1332008
Bromomethane	U		0.00391	0.0132	1	08/21/2019 05:19	WG1332008
n-Butylbenzene	U		0.00406	0.0132	1	08/21/2019 05:19	WG1332008
sec-Butylbenzene	U		0.00268	0.0132	1	08/21/2019 05:19	WG1332008
tert-Butylbenzene	U		0.00164	0.00529	1	08/21/2019 05:19	WG1332008
Carbon tetrachloride	U		0.00114	0.00529	1	08/21/2019 05:19	WG1332008
Chlorobenzene	U		0.000606	0.00264	1	08/21/2019 05:19	WG1332008
Chlorodibromomethane	U		0.000476	0.00264	1	08/21/2019 05:19	WG1332008
Chloroethane	U		0.00114	0.00529	1	08/21/2019 05:19	WG1332008
Chloroform	0.000840	J	0.000439	0.00264	1	08/21/2019 05:19	WG1332008
Chloromethane	U		0.00147	0.0132	1	08/21/2019 05:19	WG1332008
2-Chlorotoluene	U		0.000973	0.00264	1	08/21/2019 05:19	WG1332008
4-Chlorotoluene	U		0.00120	0.00529	1	08/21/2019 05:19	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00539	0.0264	1	08/21/2019 05:19	WG1332008
1,2-Dibromoethane	U		0.000555	0.00264	1	08/21/2019 05:19	WG1332008
Dibromomethane	U		0.00106	0.00529	1	08/21/2019 05:19	WG1332008
1,2-Dichlorobenzene	U		0.00153	0.00529	1	08/21/2019 05:19	WG1332008
1,3-Dichlorobenzene	U		0.00180	0.00529	1	08/21/2019 05:19	WG1332008
1,4-Dichlorobenzene	U		0.00208	0.00529	1	08/21/2019 05:19	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.000865	0.00264	1	08/21/2019 05:19	WG1332008
1,1-Dichloroethane	U		0.000608	0.00264	1	08/21/2019 05:19	WG1332008
1,2-Dichloroethane	U		0.000502	0.00264	1	08/21/2019 05:19	WG1332008
1,1-Dichloroethene	U		0.000529	0.00264	1	08/21/2019 05:19	WG1332008
cis-1,2-Dichloroethene	U		0.000730	0.00264	1	08/22/2019 02:06	WG1332648
trans-1,2-Dichloroethene	U		0.00151	0.00529	1	08/21/2019 05:19	WG1332008
1,2-Dichloropropane	U		0.00134	0.00529	1	08/21/2019 05:19	WG1332008
1,1-Dichloropropene	U		0.000740	0.00264	1	08/21/2019 05:19	WG1332008
1,3-Dichloropropane	U		0.00185	0.00529	1	08/21/2019 05:19	WG1332008
cis-1,3-Dichloropropene	U		0.000717	0.00264	1	08/21/2019 05:19	WG1332008
trans-1,3-Dichloropropene	U		0.00162	0.00529	1	08/21/2019 05:19	WG1332008
2,2-Dichloropropane	U		0.000839	0.00264	1	08/21/2019 05:19	WG1332008
Di-isopropyl ether	U		0.000370	0.00106	1	08/21/2019 05:19	WG1332008
Ethylbenzene	0.00865		0.000561	0.00264	1	08/21/2019 05:19	WG1332008
Hexachloro-1,3-butadiene	U		0.0134	0.0264	1	08/21/2019 05:19	WG1332008
Isopropylbenzene	0.000914	J	0.000913	0.00264	1	08/21/2019 05:19	WG1332008
p-Isopropyltoluene	U		0.00246	0.00529	1	08/21/2019 05:19	WG1332008
2-Butanone (MEK)	0.0602	B J0	0.0132	0.0264	1	08/21/2019 05:19	WG1332008
Methylene Chloride	U		0.00702	0.0264	1	08/21/2019 05:19	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0264	1	08/21/2019 05:19	WG1332008
Methyl tert-butyl ether	U		0.000312	0.00106	1	08/21/2019 05:19	WG1332008
Naphthalene	0.237		0.00330	0.0132	1	08/21/2019 05:19	WG1332008
n-Propylbenzene	0.00138	J	0.00125	0.00529	1	08/21/2019 05:19	WG1332008
Styrene	U		0.00289	0.0132	1	08/21/2019 05:19	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000529	0.00264	1	08/21/2019 05:19	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000413	0.00264	1	08/21/2019 05:19	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000714	0.00264	1	08/21/2019 05:19	WG1332008
Tetrachloroethene	0.00103	B J J0	0.000740	0.00264	1	08/21/2019 05:19	WG1332008
Toluene	0.0167		0.00132	0.00529	1	08/21/2019 05:19	WG1332008
1,2,3-Trichlorobenzene	U		0.000661	0.00264	1	08/21/2019 05:19	WG1332008
1,2,4-Trichlorobenzene	U		0.00510	0.0132	1	08/21/2019 05:19	WG1332008
1,1,1-Trichloroethane	U		0.000291	0.00264	1	08/21/2019 05:19	WG1332008
1,1,2-Trichloroethane	U		0.000934	0.00264	1	08/21/2019 05:19	WG1332008
Trichloroethene	U		0.000423	0.00106	1	08/21/2019 05:19	WG1332008
Trichlorofluoromethane	U		0.000529	0.00264	1	08/21/2019 05:19	WG1332008
1,2,3-Trichloropropane	U		0.00539	0.0132	1	08/21/2019 05:19	WG1332008
1,2,4-Trimethylbenzene	0.00678		0.00123	0.00529	1	08/21/2019 05:19	WG1332008
1,2,3-Trimethylbenzene	0.00307	J	0.00122	0.00529	1	08/21/2019 05:19	WG1332008
Vinyl chloride	U		0.000722	0.00264	1	08/22/2019 02:06	WG1332648
1,3,5-Trimethylbenzene	0.00367	J	0.00114	0.00529	1	08/21/2019 05:19	WG1332008
Xylenes, Total	0.0443		0.00506	0.00688	1	08/21/2019 05:19	WG1332008
(S) Toluene-d8	*103*			*75.0-131*		*08/21/2019 05:19*	WG1332008
(S) Toluene-d8	*105*			*75.0-131*		*08/22/2019 02:06*	WG1332648
(S) 4-Bromofluorobenzene	*96.0*			*67.0-138*		*08/21/2019 05:19*	WG1332008
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*08/22/2019 02:06*	WG1332648
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/21/2019 05:19*	WG1332008
(S) 1,2-Dichloroethane-d4	*90.2*			*70.0-130*		*08/22/2019 02:06*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	474	J	281	846	200	08/23/2019 15:37	WG1332645
Residual Range Organics (RRO)	1510	J	704	2120	200	08/23/2019 15:37	WG1332645
(S) o-Terphenyl	*163*	J7		*18.0-148*		*08/23/2019 15:37*	WG1332645

Sample Narrative:

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch

L1129818-13 WG1332645: Surrogate failure due to matrix interference

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00370	0.0180	1	08/22/2019 09:30	WG1332641
PCB 1221	U		0.00568	0.0180	1	08/22/2019 09:30	WG1332641
PCB 1232	U		0.00441	0.0180	1	08/22/2019 09:30	WG1332641
PCB 1242	U		0.00336	0.0180	1	08/22/2019 09:30	WG1332641
PCB 1248	0.273		0.00333	0.0180	1	08/23/2019 19:29	WG1332641
PCB 1254	U		0.00499	0.0180	1	08/22/2019 09:30	WG1332641
PCB 1260	U		0.00523	0.0180	1	08/22/2019 09:30	WG1332641
PCB 1268	0.109		0.00193	0.0180	1	08/23/2019 19:29	WG1332641
(S) Decachlorobiphenyl	*70.0*			*10.0-135*		*08/22/2019 09:30*	WG1332641
(S) Decachlorobiphenyl	*81.3*			*10.0-135*		*08/23/2019 19:29*	WG1332641
(S) Tetrachloro-m-xylene	*72.3*			*10.0-139*		*08/23/2019 19:29*	WG1332641
(S) Tetrachloro-m-xylene	*74.1*			*10.0-139*		*08/22/2019 09:30*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	1.42		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Acenaphthene	1.10		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Acenaphthylene	U		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Benzo(a)anthracene	18.1		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Benzo(a)pyrene	25.2		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Benzo(b)fluoranthene	31.4		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Benzo(g,h,i)perylene	21.8		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Benzo(k)fluoranthene	9.38		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Chrysene	21.7		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Dibenz(a,h)anthracene	5.35		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Fluoranthene	23.7		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Fluorene	0.346		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Indeno(1,2,3-cd)pyrene	17.9		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Naphthalene	0.238	J	0.0423	0.423	20	08/22/2019 17:48	WG1332888
Phenanthrene	9.09		0.0127	0.127	20	08/22/2019 17:48	WG1332888
Pyrene	27.6		0.0127	0.127	20	08/22/2019 17:48	WG1332888
1-Methylnaphthalene	0.104	J	0.0423	0.423	20	08/22/2019 17:48	WG1332888
2-Methylnaphthalene	0.161	J	0.0423	0.423	20	08/22/2019 17:48	WG1332888
2-Chloronaphthalene	U		0.0423	0.423	20	08/22/2019 17:48	WG1332888
(S) Nitrobenzene-d5	*63.8*	J7		*14.0-149*		*08/22/2019 17:48*	WG1332888
(S) 2-Fluorobiphenyl	*76.2*	J7		*34.0-125*		*08/22/2019 17:48*	WG1332888
(S) p-Terphenyl-d14	*136*	J7		*23.0-120*		*08/22/2019 17:48*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0406	0.260	1	08/21/2019 13:52	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	42.8		0.272	1.04	1	08/22/2019 06:34	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.5		0.479	2.08	1	08/21/2019 16:27	WG1331818
Cadmium	U		0.0728	0.520	1	08/21/2019 16:27	WG1331818
Chromium	11.0		0.146	1.04	1	08/21/2019 16:27	WG1331818
Lead	9.73		0.198	0.520	1	08/21/2019 16:27	WG1331818

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.27	J	0.882	2.60	25	08/22/2019 05:52	WG1332522
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*08/22/2019 05:52*	WG1332522

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0143	0.0260	1	08/21/2019 05:40	WG1332008
Acrylonitrile	U		0.00198	0.0130	1	08/21/2019 05:40	WG1332008
Benzene	U		0.000416	0.00104	1	08/21/2019 05:40	WG1332008
Bromobenzene	U		0.00109	0.0130	1	08/21/2019 05:40	WG1332008
Bromodichloromethane	U		0.000820	0.00260	1	08/21/2019 05:40	WG1332008
Bromoform	U		0.00622	0.0260	1	08/21/2019 05:40	WG1332008
Bromomethane	U	J3	0.00385	0.0130	1	08/21/2019 05:40	WG1332008
n-Butylbenzene	U		0.00400	0.0130	1	08/21/2019 05:40	WG1332008
sec-Butylbenzene	U		0.00263	0.0130	1	08/21/2019 05:40	WG1332008
tert-Butylbenzene	U		0.00161	0.00520	1	08/21/2019 05:40	WG1332008
Carbon tetrachloride	U		0.00112	0.00520	1	08/21/2019 05:40	WG1332008
Chlorobenzene	U		0.000596	0.00260	1	08/21/2019 05:40	WG1332008
Chlorodibromomethane	U		0.000468	0.00260	1	08/21/2019 05:40	WG1332008
Chloroethane	U	J3	0.00112	0.00520	1	08/21/2019 05:40	WG1332008
Chloroform	U		0.000432	0.00260	1	08/21/2019 05:40	WG1332008
Chloromethane	U		0.00145	0.0130	1	08/21/2019 05:40	WG1332008
2-Chlorotoluene	U		0.000957	0.00260	1	08/21/2019 05:40	WG1332008
4-Chlorotoluene	U		0.00118	0.00520	1	08/21/2019 05:40	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00531	0.0260	1	08/21/2019 05:40	WG1332008
1,2-Dibromoethane	U		0.000546	0.00260	1	08/21/2019 05:40	WG1332008
Dibromomethane	U		0.00104	0.00520	1	08/21/2019 05:40	WG1332008
1,2-Dichlorobenzene	U		0.00151	0.00520	1	08/21/2019 05:40	WG1332008
1,3-Dichlorobenzene	U		0.00177	0.00520	1	08/21/2019 05:40	WG1332008
1,4-Dichlorobenzene	U		0.00205	0.00520	1	08/21/2019 05:40	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.000851	0.00260	1	08/21/2019 05:40	WG1332008
1,1-Dichloroethane	U		0.000598	0.00260	1	08/21/2019 05:40	WG1332008
1,2-Dichloroethane	U		0.000494	0.00260	1	08/21/2019 05:40	WG1332008
1,1-Dichloroethene	U		0.000520	0.00260	1	08/21/2019 05:40	WG1332008
cis-1,2-Dichloroethene	U		0.000718	0.00260	1	08/22/2019 01:48	WG1332648
trans-1,2-Dichloroethene	U		0.00149	0.00520	1	08/21/2019 05:40	WG1332008
1,2-Dichloropropane	U		0.00132	0.00520	1	08/21/2019 05:40	WG1332008
1,1-Dichloropropene	U		0.000728	0.00260	1	08/21/2019 05:40	WG1332008
1,3-Dichloropropane	U		0.00182	0.00520	1	08/21/2019 05:40	WG1332008
cis-1,3-Dichloropropene	U		0.000705	0.00260	1	08/21/2019 05:40	WG1332008
trans-1,3-Dichloropropene	U		0.00159	0.00520	1	08/21/2019 05:40	WG1332008
2,2-Dichloropropane	U		0.000825	0.00260	1	08/21/2019 05:40	WG1332008
Di-isopropyl ether	U		0.000364	0.00104	1	08/21/2019 05:40	WG1332008
Ethylbenzene	U		0.000551	0.00260	1	08/21/2019 05:40	WG1332008
Hexachloro-1,3-butadiene	U		0.0132	0.0260	1	08/21/2019 05:40	WG1332008
Isopropylbenzene	U		0.000898	0.00260	1	08/21/2019 05:40	WG1332008
p-Isopropyltoluene	U		0.00242	0.00520	1	08/21/2019 05:40	WG1332008
2-Butanone (MEK)	0.0251	B J J0	0.0130	0.0260	1	08/21/2019 05:40	WG1332008
Methylene Chloride	U		0.00691	0.0260	1	08/21/2019 05:40	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0104	0.0260	1	08/21/2019 05:40	WG1332008
Methyl tert-butyl ether	U		0.000307	0.00104	1	08/21/2019 05:40	WG1332008
Naphthalene	U		0.00325	0.0130	1	08/21/2019 05:40	WG1332008
n-Propylbenzene	U		0.00123	0.00520	1	08/21/2019 05:40	WG1332008
Styrene	U		0.00284	0.0130	1	08/21/2019 05:40	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000520	0.00260	1	08/21/2019 05:40	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000406	0.00260	1	08/21/2019 05:40	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000702	0.00260	1	08/21/2019 05:40	WG1332008
Tetrachloroethene	U		0.000728	0.00260	1	08/21/2019 05:40	WG1332008
Toluene	0.00143	B J	0.00130	0.00520	1	08/21/2019 05:40	WG1332008
1,2,3-Trichlorobenzene	U		0.000650	0.00260	1	08/21/2019 05:40	WG1332008
1,2,4-Trichlorobenzene	U		0.00501	0.0130	1	08/21/2019 05:40	WG1332008
1,1,1-Trichloroethane	U		0.000286	0.00260	1	08/21/2019 05:40	WG1332008
1,1,2-Trichloroethane	U		0.000919	0.00260	1	08/21/2019 05:40	WG1332008
Trichloroethene	U		0.000416	0.00104	1	08/21/2019 05:40	WG1332008
Trichlorofluoromethane	U		0.000520	0.00260	1	08/21/2019 05:40	WG1332008
1,2,3-Trichloropropane	U		0.00531	0.0130	1	08/21/2019 05:40	WG1332008
1,2,4-Trimethylbenzene	U		0.00121	0.00520	1	08/21/2019 05:40	WG1332008
1,2,3-Trimethylbenzene	U		0.00120	0.00520	1	08/21/2019 05:40	WG1332008
Vinyl chloride	U		0.000711	0.00260	1	08/22/2019 01:48	WG1332648
1,3,5-Trimethylbenzene	U		0.00112	0.00520	1	08/21/2019 05:40	WG1332008
Xylenes, Total	U		0.00497	0.00676	1	08/21/2019 05:40	WG1332008
(S) Toluene-d8	*106*			*75.0-131*		*08/21/2019 05:40*	WG1332008
(S) Toluene-d8	*102*			*75.0-131*		*08/22/2019 01:48*	WG1332648
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*08/21/2019 05:40*	WG1332008
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*08/22/2019 01:48*	WG1332648
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*08/21/2019 05:40*	WG1332008
(S) 1,2-Dichloroethane-d4	*94.0*			*70.0-130*		*08/22/2019 01:48*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	88.1		1.38	4.16	1	08/23/2019 15:56	WG1332645
Residual Range Organics (RRO)	126		3.46	10.4	1	08/23/2019 15:56	WG1332645
(S) o-Terphenyl	*85.1*			*18.0-148*		*08/23/2019 15:56*	WG1332645

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00364	0.0177	1	08/22/2019 10:07	WG1332641
PCB 1221	U		0.00559	0.0177	1	08/22/2019 10:07	WG1332641
PCB 1232	U		0.00434	0.0177	1	08/22/2019 10:07	WG1332641
PCB 1242	U		0.00331	0.0177	1	08/22/2019 10:07	WG1332641
PCB 1248	U		0.00328	0.0177	1	08/22/2019 10:07	WG1332641
PCB 1254	U		0.00491	0.0177	1	08/22/2019 10:07	WG1332641
PCB 1260	0.0212		0.00514	0.0177	1	08/24/2019 16:23	WG1332641
PCB 1268	U		0.00189	0.0177	1	08/22/2019 10:07	WG1332641
(S) Decachlorobiphenyl	*90.3*			*10.0-135*		*08/24/2019 16:23*	WG1332641
(S) Decachlorobiphenyl	*76.4*			*10.0-135*		*08/22/2019 10:07*	WG1332641
(S) Tetrachloro-m-xylene	*87.5*			*10.0-139*		*08/22/2019 10:07*	WG1332641
(S) Tetrachloro-m-xylene	*84.8*			*10.0-139*		*08/24/2019 16:23*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Acenaphthene	0.000677	J	0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Acenaphthylene	U		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Benzo(a)anthracene	0.0128		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Benzo(a)pyrene	0.0182		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Benzo(b)fluoranthene	0.0265		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Benzo(g,h,i)perylene	0.0290		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Benzo(k)fluoranthene	0.00631		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Chrysene	0.0162		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Dibenz(a,h)anthracene	0.00407	J	0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Fluoranthene	0.0181		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Fluorene	U		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Indeno(1,2,3-cd)pyrene	0.0146		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Naphthalene	U		0.00208	0.0208	1	08/22/2019 17:04	WG1332888
Phenanthrene	0.00565	B J	0.000624	0.00624	1	08/22/2019 17:04	WG1332888
Pyrene	0.0205		0.000624	0.00624	1	08/22/2019 17:04	WG1332888
1-Methylnaphthalene	U		0.00208	0.0208	1	08/22/2019 17:04	WG1332888
2-Methylnaphthalene	U		0.00208	0.0208	1	08/22/2019 17:04	WG1332888
2-Chloronaphthalene	U		0.00208	0.0208	1	08/22/2019 17:04	WG1332888
(S) Nitrobenzene-d5	*84.8*			*14.0-149*		*08/22/2019 17:04*	WG1332888
(S) 2-Fluorobiphenyl	*85.6*			*34.0-125*		*08/22/2019 17:04*	WG1332888
(S) p-Terphenyl-d14	*92.3*			*23.0-120*		*08/22/2019 17:04*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0417	0.267	1	08/21/2019 13:53	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	32.4		0.279	1.07	1	08/22/2019 06:49	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	13.0		0.492	2.14	1	08/21/2019 16:29	WG1331818
Cadmium	U		0.0748	0.535	1	08/21/2019 16:29	WG1331818
Chromium	12.8		0.150	1.07	1	08/21/2019 16:29	WG1331818
Lead	7.76		0.203	0.535	1	08/21/2019 16:29	WG1331818

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.04	J	0.960	2.83	26.5	08/22/2019 06:13	WG1332522
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*77.0-120*		*08/22/2019 06:13*	WG1332522

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0264	J	0.0156	0.0286	1.07	08/21/2019 06:02	WG1332008
Acrylonitrile	U		0.00217	0.0143	1.07	08/21/2019 06:02	WG1332008
Benzene	0.000576	B J	0.000458	0.00114	1.07	08/21/2019 06:02	WG1332008
Bromobenzene	U		0.00120	0.0143	1.07	08/21/2019 06:02	WG1332008
Bromodichloromethane	U		0.000901	0.00286	1.07	08/21/2019 06:02	WG1332008
Bromoform	U		0.00684	0.0286	1.07	08/21/2019 06:02	WG1332008
Bromomethane	U		0.00423	0.0143	1.07	08/21/2019 06:02	WG1332008
n-Butylbenzene	U		0.00439	0.0143	1.07	08/21/2019 06:02	WG1332008
sec-Butylbenzene	U		0.00290	0.0143	1.07	08/21/2019 06:02	WG1332008
tert-Butylbenzene	U		0.00177	0.00572	1.07	08/21/2019 06:02	WG1332008
Carbon tetrachloride	U		0.00124	0.00572	1.07	08/21/2019 06:02	WG1332008
Chlorobenzene	U		0.000655	0.00286	1.07	08/21/2019 06:02	WG1332008
Chlorodibromomethane	U		0.000515	0.00286	1.07	08/21/2019 06:02	WG1332008
Chloroethane	U		0.00124	0.00572	1.07	08/21/2019 06:02	WG1332008
Chloroform	U		0.000475	0.00286	1.07	08/21/2019 06:02	WG1332008
Chloromethane	U		0.00159	0.0143	1.07	08/21/2019 06:02	WG1332008
2-Chlorotoluene	U		0.00105	0.00286	1.07	08/21/2019 06:02	WG1332008
4-Chlorotoluene	U		0.00129	0.00572	1.07	08/21/2019 06:02	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1.07	08/21/2019 06:02	WG1332008
1,2-Dibromoethane	U		0.000601	0.00286	1.07	08/21/2019 06:02	WG1332008
Dibromomethane	U		0.00114	0.00572	1.07	08/21/2019 06:02	WG1332008
1,2-Dichlorobenzene	U		0.00166	0.00572	1.07	08/21/2019 06:02	WG1332008
1,3-Dichlorobenzene	U		0.00195	0.00572	1.07	08/21/2019 06:02	WG1332008
1,4-Dichlorobenzene	U		0.00226	0.00572	1.07	08/21/2019 06:02	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.000935	0.00286	1.07	08/21/2019 06:02	WG1332008
1,1-Dichloroethane	U		0.000657	0.00286	1.07	08/21/2019 06:02	WG1332008
1,2-Dichloroethane	U		0.000543	0.00286	1.07	08/21/2019 06:02	WG1332008
1,1-Dichloroethene	U		0.000572	0.00286	1.07	08/21/2019 06:02	WG1332008
cis-1,2-Dichloroethene	U		0.000781	0.00283	1.06	08/22/2019 01:29	WG1332648
trans-1,2-Dichloroethene	U		0.00164	0.00572	1.07	08/21/2019 06:02	WG1332008
1,2-Dichloropropane	U		0.00145	0.00572	1.07	08/21/2019 06:02	WG1332008
1,1-Dichloropropene	U		0.000801	0.00286	1.07	08/21/2019 06:02	WG1332008
1,3-Dichloropropane	U		0.00200	0.00572	1.07	08/21/2019 06:02	WG1332008
cis-1,3-Dichloropropene	U		0.000775	0.00286	1.07	08/21/2019 06:02	WG1332008
trans-1,3-Dichloropropene	U		0.00175	0.00572	1.07	08/21/2019 06:02	WG1332008
2,2-Dichloropropane	U		0.000907	0.00286	1.07	08/21/2019 06:02	WG1332008
Di-isopropyl ether	U		0.000400	0.00114	1.07	08/21/2019 06:02	WG1332008
Ethylbenzene	U		0.000606	0.00286	1.07	08/21/2019 06:02	WG1332008
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1.07	08/21/2019 06:02	WG1332008
Isopropylbenzene	U		0.000987	0.00286	1.07	08/21/2019 06:02	WG1332008
p-Isopropyltoluene	U		0.00266	0.00572	1.07	08/21/2019 06:02	WG1332008
2-Butanone (MEK)	0.0346	B J0	0.0143	0.0286	1.07	08/21/2019 06:02	WG1332008
Methylene Chloride	U		0.00759	0.0286	1.07	08/21/2019 06:02	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1.07	08/21/2019 06:02	WG1332008
Methyl tert-butyl ether	U		0.000338	0.00114	1.07	08/21/2019 06:02	WG1332008
Naphthalene	U		0.00357	0.0143	1.07	08/21/2019 06:02	WG1332008
n-Propylbenzene	U		0.00135	0.00572	1.07	08/21/2019 06:02	WG1332008
Styrene	U		0.00312	0.0143	1.07	08/21/2019 06:02	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1.07	08/21/2019 06:02	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1.07	08/21/2019 06:02	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000772	0.00286	1.07	08/21/2019 06:02	WG1332008
Tetrachloroethene	U		0.000801	0.00286	1.07	08/21/2019 06:02	WG1332008
Toluene	0.00211	B J	0.00143	0.00572	1.07	08/21/2019 06:02	WG1332008
1,2,3-Trichlorobenzene	U		0.000715	0.00286	1.07	08/21/2019 06:02	WG1332008
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1.07	08/21/2019 06:02	WG1332008
1,1,1-Trichloroethane	U		0.000314	0.00286	1.07	08/21/2019 06:02	WG1332008
1,1,2-Trichloroethane	U		0.00101	0.00286	1.07	08/21/2019 06:02	WG1332008
Trichloroethene	U		0.000458	0.00114	1.07	08/21/2019 06:02	WG1332008
Trichlorofluoromethane	U		0.000572	0.00286	1.07	08/21/2019 06:02	WG1332008
1,2,3-Trichloropropane	U		0.00584	0.0143	1.07	08/21/2019 06:02	WG1332008
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1.07	08/21/2019 06:02	WG1332008
1,2,3-Trimethylbenzene	U		0.00131	0.00572	1.07	08/21/2019 06:02	WG1332008
Vinyl chloride	U		0.000774	0.00283	1.06	08/22/2019 01:29	WG1332648
1,3,5-Trimethylbenzene	U		0.00124	0.00572	1.07	08/21/2019 06:02	WG1332008
Xylenes, Total	U		0.00546	0.00744	1.07	08/21/2019 06:02	WG1332008
(S) Toluene-d8	*106*			*75.0-131*		*08/21/2019 06:02*	WG1332008
(S) Toluene-d8	*103*			*75.0-131*		*08/22/2019 01:29*	WG1332648
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*		*08/21/2019 06:02*	WG1332008
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*08/22/2019 01:29*	WG1332648
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/21/2019 06:02*	WG1332008
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*08/22/2019 01:29*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.42	4.28	1	08/22/2019 19:58	WG1332645
Residual Range Organics (RRO)	U		3.56	10.7	1	08/22/2019 19:58	WG1332645
(S) o-Terphenyl	*111*			*18.0-148*		*08/22/2019 19:58*	WG1332645

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00374	0.0182	1	08/22/2019 10:20	WG1332641
PCB 1221	U		0.00574	0.0182	1	08/22/2019 10:20	WG1332641
PCB 1232	U		0.00446	0.0182	1	08/22/2019 10:20	WG1332641
PCB 1242	U		0.00340	0.0182	1	08/22/2019 10:20	WG1332641
PCB 1248	U		0.00337	0.0182	1	08/22/2019 10:20	WG1332641
PCB 1254	U		0.00505	0.0182	1	08/22/2019 10:20	WG1332641
PCB 1260	U		0.00528	0.0182	1	08/22/2019 10:20	WG1332641
PCB 1268	U		0.00195	0.0182	1	08/22/2019 10:20	WG1332641
(S) Decachlorobiphenyl	*70.9*			*10.0-135*		*08/22/2019 10:20*	WG1332641
(S) Tetrachloro-m-xylene	*84.5*			*10.0-139*		*08/22/2019 10:20*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Acenaphthene	U		0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Acenaphthylene	U		0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Benzo(a)anthracene	0.00282	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Benzo(a)pyrene	0.00406	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Benzo(b)fluoranthene	0.00518	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Benzo(g,h,i)perylene	0.00372	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Benzo(k)fluoranthene	0.00183	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Chrysene	0.00342	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Dibenz(a,h)anthracene	U		0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Fluoranthene	0.00367	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Fluorene	U		0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Indeno(1,2,3-cd)pyrene	0.00287	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Naphthalene	U		0.00214	0.0214	1	08/22/2019 17:26	WG1332888
Phenanthrene	0.00128	B J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
Pyrene	0.00476	J	0.000641	0.00641	1	08/22/2019 17:26	WG1332888
1-Methylnaphthalene	U		0.00214	0.0214	1	08/22/2019 17:26	WG1332888
2-Methylnaphthalene	U		0.00214	0.0214	1	08/22/2019 17:26	WG1332888
2-Chloronaphthalene	U		0.00214	0.0214	1	08/22/2019 17:26	WG1332888
(S) Nitrobenzene-d5	*79.7*			*14.0-149*		*08/22/2019 17:26*	WG1332888
(S) 2-Fluorobiphenyl	*85.0*			*34.0-125*		*08/22/2019 17:26*	WG1332888
(S) p-Terphenyl-d14	*96.1*			*23.0-120*		*08/22/2019 17:26*	WG1332888

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	08/23/2019 07:32	WG1332924

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0422	0.271	1	08/21/2019 13:54	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	1.76		0.261	1.00	.9231905	08/22/2019 07:33	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.1		0.498	2.17	1	08/21/2019 16:32	WG1331818
Cadmium	U		0.0758	0.541	1	08/21/2019 16:32	WG1331818
Chromium	12.5		0.152	1.08	1	08/21/2019 16:32	WG1331818
Lead	9.65		0.206	0.541	1	08/21/2019 16:32	WG1331818

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.19	J	0.918	2.71	25	08/22/2019 06:33	WG1332522
(S) a,a,a-Trifluorotoluene(FID)	*94.9*			*77.0-120*		*08/22/2019 06:33*	WG1332522

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0387		0.0148	0.0271	1	08/21/2019 06:24	WG1332008
Acrylonitrile	U		0.00206	0.0135	1	08/21/2019 06:24	WG1332008
Benzene	0.000468	B J	0.000433	0.00108	1	08/21/2019 06:24	WG1332008
Bromobenzene	U		0.00114	0.0135	1	08/21/2019 06:24	WG1332008
Bromodichloromethane	U		0.000853	0.00271	1	08/21/2019 06:24	WG1332008
Bromoform	U		0.00647	0.0271	1	08/21/2019 06:24	WG1332008
Bromomethane	U		0.00401	0.0135	1	08/21/2019 06:24	WG1332008
n-Butylbenzene	U		0.00416	0.0135	1	08/21/2019 06:24	WG1332008
sec-Butylbenzene	U		0.00274	0.0135	1	08/21/2019 06:24	WG1332008
tert-Butylbenzene	U		0.00168	0.00541	1	08/21/2019 06:24	WG1332008
Carbon tetrachloride	U		0.00117	0.00541	1	08/21/2019 06:24	WG1332008
Chlorobenzene	U		0.000620	0.00271	1	08/21/2019 06:24	WG1332008
Chlorodibromomethane	U		0.000487	0.00271	1	08/21/2019 06:24	WG1332008
Chloroethane	U		0.00117	0.00541	1	08/21/2019 06:24	WG1332008
Chloroform	0.000575	J	0.000449	0.00271	1	08/21/2019 06:24	WG1332008
Chloromethane	0.00326	J	0.00151	0.0135	1	08/21/2019 06:24	WG1332008
2-Chlorotoluene	U		0.000996	0.00271	1	08/21/2019 06:24	WG1332008
4-Chlorotoluene	U		0.00122	0.00541	1	08/21/2019 06:24	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00552	0.0271	1	08/21/2019 06:24	WG1332008
1,2-Dibromoethane	U		0.000568	0.00271	1	08/21/2019 06:24	WG1332008
Dibromomethane	U		0.00108	0.00541	1	08/21/2019 06:24	WG1332008
1,2-Dichlorobenzene	U		0.00157	0.00541	1	08/21/2019 06:24	WG1332008
1,3-Dichlorobenzene	U		0.00184	0.00541	1	08/21/2019 06:24	WG1332008
1,4-Dichlorobenzene	U		0.00213	0.00541	1	08/21/2019 06:24	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.000886	0.00271	1	08/21/2019 06:24	WG1332008
1,1-Dichloroethane	U		0.000623	0.00271	1	08/21/2019 06:24	WG1332008
1,2-Dichloroethane	U		0.000514	0.00271	1	08/21/2019 06:24	WG1332008
1,1-Dichloroethene	U		0.000541	0.00271	1	08/21/2019 06:24	WG1332008
cis-1,2-Dichloroethene	U		0.000747	0.00271	1	08/22/2019 01:11	WG1332648
trans-1,2-Dichloroethene	U		0.00155	0.00541	1	08/21/2019 06:24	WG1332008
1,2-Dichloropropane	U		0.00138	0.00541	1	08/21/2019 06:24	WG1332008
1,1-Dichloropropene	U		0.000758	0.00271	1	08/21/2019 06:24	WG1332008
1,3-Dichloropropane	U		0.00189	0.00541	1	08/21/2019 06:24	WG1332008
cis-1,3-Dichloropropene	U		0.000734	0.00271	1	08/21/2019 06:24	WG1332008
trans-1,3-Dichloropropene	U		0.00166	0.00541	1	08/21/2019 06:24	WG1332008
2,2-Dichloropropane	U		0.000859	0.00271	1	08/21/2019 06:24	WG1332008
Di-isopropyl ether	U		0.000379	0.00108	1	08/21/2019 06:24	WG1332008
Ethylbenzene	U		0.000574	0.00271	1	08/21/2019 06:24	WG1332008
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	08/21/2019 06:24	WG1332008
Isopropylbenzene	U		0.000934	0.00271	1	08/21/2019 06:24	WG1332008
p-Isopropyltoluene	0.0204		0.00252	0.00541	1	08/21/2019 06:24	WG1332008
2-Butanone (MEK)	0.0557	B J0	0.0135	0.0271	1	08/21/2019 06:24	WG1332008
Methylene Chloride	U		0.00719	0.0271	1	08/21/2019 06:24	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0271	1	08/21/2019 06:24	WG1332008
Methyl tert-butyl ether	U		0.000319	0.00108	1	08/21/2019 06:24	WG1332008
Naphthalene	U		0.00338	0.0135	1	08/21/2019 06:24	WG1332008
n-Propylbenzene	U		0.00128	0.00541	1	08/21/2019 06:24	WG1332008
Styrene	U		0.00296	0.0135	1	08/21/2019 06:24	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000541	0.00271	1	08/21/2019 06:24	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000422	0.00271	1	08/21/2019 06:24	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000731	0.00271	1	08/21/2019 06:24	WG1332008
Tetrachloroethene	U		0.000758	0.00271	1	08/21/2019 06:24	WG1332008
Toluene	0.00229	B J	0.00135	0.00541	1	08/21/2019 06:24	WG1332008
1,2,3-Trichlorobenzene	U		0.000677	0.00271	1	08/21/2019 06:24	WG1332008
1,2,4-Trichlorobenzene	U		0.00522	0.0135	1	08/21/2019 06:24	WG1332008
1,1,1-Trichloroethane	U		0.000298	0.00271	1	08/21/2019 06:24	WG1332008
1,1,2-Trichloroethane	U		0.000956	0.00271	1	08/21/2019 06:24	WG1332008
Trichloroethene	U		0.000433	0.00108	1	08/21/2019 06:24	WG1332008
Trichlorofluoromethane	U		0.000541	0.00271	1	08/21/2019 06:24	WG1332008
1,2,3-Trichloropropane	U		0.00552	0.0135	1	08/21/2019 06:24	WG1332008
1,2,4-Trimethylbenzene	U		0.00126	0.00541	1	08/21/2019 06:24	WG1332008
1,2,3-Trimethylbenzene	U		0.00125	0.00541	1	08/21/2019 06:24	WG1332008
Vinyl chloride	U		0.000740	0.00271	1	08/22/2019 01:11	WG1332648
1,3,5-Trimethylbenzene	U		0.00117	0.00541	1	08/21/2019 06:24	WG1332008
Xylenes, Total	U		0.00518	0.00704	1	08/21/2019 06:24	WG1332008
(S) Toluene-d8	*104*			*75.0-131*		*08/21/2019 06:24*	WG1332008
(S) Toluene-d8	*101*			*75.0-131*		*08/22/2019 01:11*	WG1332648
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*08/21/2019 06:24*	WG1332008
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*08/22/2019 01:11*	WG1332648
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*08/21/2019 06:24*	WG1332008
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*08/22/2019 01:11*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.41		1.44	4.33	1	08/23/2019 16:08	WG1332645
Residual Range Organics (RRO)	15.8		3.61	10.8	1	08/23/2019 16:08	WG1332645
(S) o-Terphenyl	*72.1*			*18.0-148*		*08/23/2019 16:08*	WG1332645

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00379	0.0184	1	08/22/2019 10:32	WG1332641
PCB 1221	U		0.00581	0.0184	1	08/22/2019 10:32	WG1332641
PCB 1232	U		0.00452	0.0184	1	08/22/2019 10:32	WG1332641
PCB 1242	U		0.00344	0.0184	1	08/22/2019 10:32	WG1332641
PCB 1248	U		0.00341	0.0184	1	08/22/2019 10:32	WG1332641
PCB 1254	U		0.00511	0.0184	1	08/22/2019 10:32	WG1332641
PCB 1260	U		0.00535	0.0184	1	08/22/2019 10:32	WG1332641
PCB 1268	U		0.00197	0.0184	1	08/22/2019 10:32	WG1332641
(S) Decachlorobiphenyl	*68.9*			*10.0-135*		*08/22/2019 10:32*	WG1332641
(S) Tetrachloro-m-xylene	*80.5*			*10.0-139*		*08/22/2019 10:32*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00375	J	0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Acenaphthene	0.00284	J	0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Acenaphthylene	U		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Benzo(a)anthracene	0.0511		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Benzo(a)pyrene	0.0790		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Benzo(b)fluoranthene	0.0991		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Benzo(g,h,i)perylene	0.0679		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Benzo(k)fluoranthene	0.0320		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Chrysene	0.0552		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Dibenz(a,h)anthracene	0.0152		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Fluoranthene	0.0742		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Fluorene	0.000974	J	0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Indeno(1,2,3-cd)pyrene	0.0525		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Naphthalene	U		0.00217	0.0217	1	08/22/2019 14:34	WG1332890
Phenanthrene	0.0230		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
Pyrene	0.0892		0.000650	0.00650	1	08/22/2019 14:34	WG1332890
1-Methylnaphthalene	U		0.00217	0.0217	1	08/22/2019 14:34	WG1332890
2-Methylnaphthalene	U		0.00217	0.0217	1	08/22/2019 14:34	WG1332890
2-Chloronaphthalene	U		0.00217	0.0217	1	08/22/2019 14:34	WG1332890
(S) Nitrobenzene-d5	*120*			*14.0-149*		*08/22/2019 14:34*	WG1332890
(S) 2-Fluorobiphenyl	*96.2*			*34.0-125*		*08/22/2019 14:34*	WG1332890
(S) p-Terphenyl-d14	*102*			*23.0-120*		*08/22/2019 14:34*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0410	0.263	1	08/21/2019 13:55	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	24.9		0.274	1.05	1	08/22/2019 07:48	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.2		0.483	2.10	1	08/21/2019 16:34	WG1331818
Cadmium	U		0.0735	0.525	1	08/21/2019 16:34	WG1331818
Chromium	13.3		0.147	1.05	1	08/21/2019 16:34	WG1331818
Lead	7.31		0.200	0.525	1	08/21/2019 16:34	WG1331818

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2.14	J	1.40	4.20	1	08/22/2019 20:23	WG1332645
Residual Range Organics (RRO)	4.03	J	3.50	10.5	1	08/22/2019 20:23	WG1332645
(S) o-Terphenyl	*85.2*			*18.0-148*		*08/22/2019 20:23*	WG1332645

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00368	0.0179	1	08/22/2019 10:45	WG1332641
PCB 1221	U		0.00564	0.0179	1	08/22/2019 10:45	WG1332641
PCB 1232	U		0.00438	0.0179	1	08/22/2019 10:45	WG1332641
PCB 1242	U		0.00334	0.0179	1	08/22/2019 10:45	WG1332641
PCB 1248	U		0.00331	0.0179	1	08/22/2019 10:45	WG1332641
PCB 1254	U		0.00496	0.0179	1	08/22/2019 10:45	WG1332641
PCB 1260	U		0.00519	0.0179	1	08/22/2019 10:45	WG1332641
PCB 1268	U		0.00191	0.0179	1	08/22/2019 10:45	WG1332641
(S) Decachlorobiphenyl	*68.2*			*10.0-135*		*08/22/2019 10:45*	WG1332641
(S) Tetrachloro-m-xylene	*74.7*			*10.0-139*		*08/22/2019 10:45*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00350	J	0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Acenaphthene	0.00409	J	0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Acenaphthylene	U		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Benzo(a)anthracene	0.0269		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Benzo(a)pyrene	0.0359		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Benzo(b)fluoranthene	0.0454		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Benzo(g,h,i)perylene	0.0297		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Benzo(k)fluoranthene	0.0139		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Chrysene	0.0319		0.000630	0.00630	1	08/22/2019 14:55	WG1332890

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	0.00624	J	0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Fluoranthene	0.0424		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Fluorene	0.00114	J	0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Indeno(1,2,3-cd)pyrene	0.0223		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Naphthalene	U		0.00210	0.0210	1	08/22/2019 14:55	WG1332890
Phenanthrene	0.0201		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
Pyrene	0.0477		0.000630	0.00630	1	08/22/2019 14:55	WG1332890
1-Methylnaphthalene	U		0.00210	0.0210	1	08/22/2019 14:55	WG1332890
2-Methylnaphthalene	U		0.00210	0.0210	1	08/22/2019 14:55	WG1332890
2-Chloronaphthalene	U		0.00210	0.0210	1	08/22/2019 14:55	WG1332890
(S) Nitrobenzene-d5	*112*			*14.0-149*		*08/22/2019 14:55*	WG1332890
(S) 2-Fluorobiphenyl	*89.0*			*34.0-125*		*08/22/2019 14:55*	WG1332890
(S) p-Terphenyl-d14	*93.8*			*23.0-120*		*08/22/2019 14:55*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	1.74		0.0420	0.269	1	08/21/2019 13:56	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	29.8		0.281	1.08	1	08/22/2019 08:03	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	15.7		0.495	2.15	1	08/21/2019 16:37	WG1331818
Cadmium	U		0.0753	0.538	1	08/21/2019 16:37	WG1331818
Chromium	14.1		0.151	1.08	1	08/21/2019 16:37	WG1331818
Lead	10.8		0.204	0.538	1	08/21/2019 16:37	WG1331818

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.97	J	0.912	2.69	25	08/22/2019 07:19	WG1332522
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*		*08/22/2019 07:19*	WG1332522

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0543		0.0147	0.0269	1	08/21/2019 06:45	WG1332008
Acrylonitrile	U		0.00204	0.0134	1	08/21/2019 06:45	WG1332008
Benzene	0.000621	B J	0.000430	0.00108	1	08/21/2019 06:45	WG1332008
Bromobenzene	U		0.00113	0.0134	1	08/21/2019 06:45	WG1332008
Bromodichloromethane	U		0.000848	0.00269	1	08/21/2019 06:45	WG1332008
Bromoform	U		0.00643	0.0269	1	08/21/2019 06:45	WG1332008
Bromomethane	U		0.00398	0.0134	1	08/21/2019 06:45	WG1332008
n-Butylbenzene	U		0.00413	0.0134	1	08/21/2019 06:45	WG1332008
sec-Butylbenzene	U		0.00272	0.0134	1	08/21/2019 06:45	WG1332008
tert-Butylbenzene	U		0.00167	0.00538	1	08/21/2019 06:45	WG1332008
Carbon tetrachloride	U		0.00116	0.00538	1	08/21/2019 06:45	WG1332008
Chlorobenzene	U		0.000617	0.00269	1	08/21/2019 06:45	WG1332008
Chlorodibromomethane	U		0.000484	0.00269	1	08/21/2019 06:45	WG1332008
Chloroethane	U		0.00116	0.00538	1	08/21/2019 06:45	WG1332008
Chloroform	0.00108	J	0.000447	0.00269	1	08/21/2019 06:45	WG1332008
Chloromethane	U		0.00150	0.0134	1	08/21/2019 06:45	WG1332008
2-Chlorotoluene	U		0.000990	0.00269	1	08/21/2019 06:45	WG1332008
4-Chlorotoluene	U		0.00122	0.00538	1	08/21/2019 06:45	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	08/21/2019 06:45	WG1332008
1,2-Dibromoethane	U		0.000565	0.00269	1	08/21/2019 06:45	WG1332008
Dibromomethane	U		0.00108	0.00538	1	08/21/2019 06:45	WG1332008
1,2-Dichlorobenzene	U		0.00156	0.00538	1	08/21/2019 06:45	WG1332008
1,3-Dichlorobenzene	U		0.00183	0.00538	1	08/21/2019 06:45	WG1332008
1,4-Dichlorobenzene	U		0.00212	0.00538	1	08/21/2019 06:45	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.000880	0.00269	1	08/21/2019 06:45	WG1332008
1,1-Dichloroethane	U		0.000619	0.00269	1	08/21/2019 06:45	WG1332008
1,2-Dichloroethane	U		0.000511	0.00269	1	08/21/2019 06:45	WG1332008
1,1-Dichloroethene	U		0.000538	0.00269	1	08/21/2019 06:45	WG1332008
cis-1,2-Dichloroethene	U		0.000742	0.00269	1	08/22/2019 00:52	WG1332648
trans-1,2-Dichloroethene	U		0.00154	0.00538	1	08/21/2019 06:45	WG1332008
1,2-Dichloropropane	U		0.00137	0.00538	1	08/21/2019 06:45	WG1332008
1,1-Dichloropropene	U		0.000753	0.00269	1	08/21/2019 06:45	WG1332008
1,3-Dichloropropane	U		0.00188	0.00538	1	08/21/2019 06:45	WG1332008
cis-1,3-Dichloropropene	U		0.000729	0.00269	1	08/21/2019 06:45	WG1332008
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	08/21/2019 06:45	WG1332008
2,2-Dichloropropane	U		0.000853	0.00269	1	08/21/2019 06:45	WG1332008
Di-isopropyl ether	U		0.000377	0.00108	1	08/21/2019 06:45	WG1332008
Ethylbenzene	U		0.000570	0.00269	1	08/21/2019 06:45	WG1332008
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	08/21/2019 06:45	WG1332008
Isopropylbenzene	U		0.000929	0.00269	1	08/21/2019 06:45	WG1332008
p-Isopropyltoluene	0.00365	J	0.00251	0.00538	1	08/21/2019 06:45	WG1332008
2-Butanone (MEK)	0.0437	B J0	0.0134	0.0269	1	08/21/2019 06:45	WG1332008
Methylene Chloride	U		0.00714	0.0269	1	08/21/2019 06:45	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	08/21/2019 06:45	WG1332008
Methyl tert-butyl ether	U		0.000317	0.00108	1	08/21/2019 06:45	WG1332008
Naphthalene	U		0.00336	0.0134	1	08/21/2019 06:45	WG1332008
n-Propylbenzene	U		0.00127	0.00538	1	08/21/2019 06:45	WG1332008
Styrene	U		0.00294	0.0134	1	08/21/2019 06:45	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	08/21/2019 06:45	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	08/21/2019 06:45	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000726	0.00269	1	08/21/2019 06:45	WG1332008
Tetrachloroethene	0.000825	B J J0	0.000753	0.00269	1	08/21/2019 06:45	WG1332008
Toluene	0.00618	B	0.00134	0.00538	1	08/21/2019 06:45	WG1332008
1,2,3-Trichlorobenzene	U		0.000672	0.00269	1	08/21/2019 06:45	WG1332008
1,2,4-Trichlorobenzene	U		0.00519	0.0134	1	08/21/2019 06:45	WG1332008
1,1,1-Trichloroethane	U		0.000296	0.00269	1	08/21/2019 06:45	WG1332008
1,1,2-Trichloroethane	U		0.000950	0.00269	1	08/21/2019 06:45	WG1332008
Trichloroethene	U		0.000430	0.00108	1	08/21/2019 06:45	WG1332008
Trichlorofluoromethane	U		0.000538	0.00269	1	08/21/2019 06:45	WG1332008
1,2,3-Trichloropropane	U		0.00549	0.0134	1	08/21/2019 06:45	WG1332008
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	08/21/2019 06:45	WG1332008
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	08/21/2019 06:45	WG1332008
Vinyl chloride	U		0.000735	0.00269	1	08/22/2019 00:52	WG1332648
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	08/21/2019 06:45	WG1332008
Xylenes, Total	U		0.00514	0.00699	1	08/21/2019 06:45	WG1332008
(S) Toluene-d8	*103*			*75.0-131*		*08/21/2019 06:45*	WG1332008
(S) Toluene-d8	*103*			*75.0-131*		*08/22/2019 00:52*	WG1332648
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*08/21/2019 06:45*	WG1332008
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*08/22/2019 00:52*	WG1332648
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/21/2019 06:45*	WG1332008
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*08/22/2019 00:52*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1.80	J	1.43	4.30	1	08/22/2019 20:10	WG1332645
Residual Range Organics (RRO)	U		3.58	10.8	1	08/22/2019 20:10	WG1332645
(S) o-Terphenyl	*74.3*			*18.0-148*		*08/22/2019 20:10*	WG1332645

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00377	0.0183	1	08/22/2019 10:57	WG1332641
PCB 1221	U		0.00578	0.0183	1	08/22/2019 10:57	WG1332641
PCB 1232	U		0.00449	0.0183	1	08/22/2019 10:57	WG1332641
PCB 1242	U		0.00342	0.0183	1	08/22/2019 10:57	WG1332641
PCB 1248	U		0.00339	0.0183	1	08/22/2019 10:57	WG1332641
PCB 1254	U		0.00508	0.0183	1	08/22/2019 10:57	WG1332641
PCB 1260	U		0.00532	0.0183	1	08/22/2019 10:57	WG1332641
PCB 1268	U		0.00196	0.0183	1	08/22/2019 10:57	WG1332641
(S) Decachlorobiphenyl	*69.1*			*10.0-135*		*08/22/2019 10:57*	WG1332641
(S) Tetrachloro-m-xylene	*77.1*			*10.0-139*		*08/22/2019 10:57*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Acenaphthene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Acenaphthylene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Benzo(a)anthracene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Benzo(a)pyrene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Benzo(b)fluoranthene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Benzo(g,h,i)perylene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Benzo(k)fluoranthene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Chrysene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Dibenz(a,h)anthracene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Fluoranthene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Fluorene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Indeno(1,2,3-cd)pyrene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Naphthalene	U		0.00215	0.0215	1	08/22/2019 15:16	WG1332890
Phenanthrene	U		0.000646	0.00646	1	08/22/2019 15:16	WG1332890
Pyrene	0.000683	J	0.000646	0.00646	1	08/22/2019 15:16	WG1332890
1-Methylnaphthalene	U		0.00215	0.0215	1	08/22/2019 15:16	WG1332890
2-Methylnaphthalene	U		0.00215	0.0215	1	08/22/2019 15:16	WG1332890
2-Chloronaphthalene	U		0.00215	0.0215	1	08/22/2019 15:16	WG1332890
(S) Nitrobenzene-d5	*118*			*14.0-149*		*08/22/2019 15:16*	WG1332890
(S) 2-Fluorobiphenyl	*93.7*			*34.0-125*		*08/22/2019 15:16*	WG1332890
(S) p-Terphenyl-d14	*100*			*23.0-120*		*08/22/2019 15:16*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.7		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0399	0.256	1	08/21/2019 13:57	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	2.31		0.267	1.02	1	08/22/2019 08:18	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.2		0.471	2.05	1	08/21/2019 16:40	WG1331818
Cadmium	U		0.0716	0.512	1	08/21/2019 16:40	WG1331818
Chromium	12.7		0.143	1.02	1	08/21/2019 16:40	WG1331818
Lead	10.2		0.194	0.512	1	08/21/2019 16:40	WG1331818

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00358	0.0174	1	08/22/2019 11:09	WG1332641
PCB 1221	U		0.00550	0.0174	1	08/22/2019 11:09	WG1332641
PCB 1232	U		0.00427	0.0174	1	08/22/2019 11:09	WG1332641
PCB 1242	U		0.00325	0.0174	1	08/22/2019 11:09	WG1332641
PCB 1248	0.0198		0.00322	0.0174	1	08/24/2019 14:36	WG1332641
PCB 1254	U		0.00483	0.0174	1	08/22/2019 11:09	WG1332641
PCB 1260	U		0.00506	0.0174	1	08/22/2019 11:09	WG1332641
PCB 1268	U		0.00186	0.0174	1	08/22/2019 11:09	WG1332641
(S) Decachlorobiphenyl	*79.4*			*10.0-135*		*08/22/2019 11:09*	WG1332641
(S) Decachlorobiphenyl	*89.7*			*10.0-135*		*08/24/2019 14:36*	WG1332641
(S) Tetrachloro-m-xylene	*84.5*			*10.0-139*		*08/22/2019 11:09*	WG1332641
(S) Tetrachloro-m-xylene	*83.2*			*10.0-139*		*08/24/2019 14:36*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00271	J	0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Acenaphthene	0.00223	J	0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Acenaphthylene	U		0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Benzo(a)anthracene	0.0346		0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Benzo(a)pyrene	0.0485	J5	0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Benzo(b)fluoranthene	0.0631	J5	0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Benzo(g,h,i)perylene	0.0378		0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Benzo(k)fluoranthene	0.0272		0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Chrysene	0.0457		0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Dibenz(a,h)anthracene	0.00884		0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Fluoranthene	0.0600	J5	0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Fluorene	0.000850	J	0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Indeno(1,2,3-cd)pyrene	0.0302		0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Naphthalene	U		0.00205	0.0205	1	08/22/2019 13:32	WG1332890

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	0.0218		0.000614	0.00614	1	08/22/2019 13:32	WG1332890
Pyrene	0.0651	J5	0.000614	0.00614	1	08/22/2019 13:32	WG1332890
1-Methylnaphthalene	U		0.00205	0.0205	1	08/22/2019 13:32	WG1332890
2-Methylnaphthalene	U		0.00205	0.0205	1	08/22/2019 13:32	WG1332890
2-Chloronaphthalene	U		0.00205	0.0205	1	08/22/2019 13:32	WG1332890
(S) Nitrobenzene-d5	*124*			*14.0-149*		*08/22/2019 13:32*	WG1332890
(S) 2-Fluorobiphenyl	*98.6*			*34.0-125*		*08/22/2019 13:32*	WG1332890
(S) p-Terphenyl-d14	*101*			*23.0-120*		*08/22/2019 13:32*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.0471	J	0.0402	0.258	1	08/21/2019 14:00	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	4.98		0.269	1.03	1	08/22/2019 08:48	WG1330936

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.11		0.475	2.06	1	08/21/2019 16:42	WG1331818
Cadmium	U		0.0722	0.516	1	08/21/2019 16:42	WG1331818
Chromium	9.64		0.144	1.03	1	08/21/2019 16:42	WG1331818
Lead	44.4		0.196	0.516	1	08/21/2019 16:42	WG1331818

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	148		13.7	41.3	10	08/23/2019 16:16	WG1332645
Residual Range Organics (RRO)	83.3	J	34.4	103	10	08/23/2019 16:16	WG1332645
(S) o-Terphenyl	*76.1*			*18.0-148*		*08/23/2019 16:16*	WG1332645

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00361	0.0175	1	08/22/2019 11:22	WG1332641
PCB 1221	U		0.00554	0.0175	1	08/22/2019 11:22	WG1332641
PCB 1232	U		0.00430	0.0175	1	08/22/2019 11:22	WG1332641
PCB 1242	U		0.00328	0.0175	1	08/22/2019 11:22	WG1332641
PCB 1248	U		0.00325	0.0175	1	08/22/2019 11:22	WG1332641
PCB 1254	U		0.00487	0.0175	1	08/22/2019 11:22	WG1332641
PCB 1260	0.00972	J	0.00510	0.0175	1	08/23/2019 18:46	WG1332641
PCB 1268	U		0.00188	0.0175	1	08/22/2019 11:22	WG1332641
(S) Decachlorobiphenyl	*89.3*			*10.0-135*		*08/23/2019 18:46*	WG1332641
(S) Decachlorobiphenyl	*77.4*			*10.0-135*		*08/22/2019 11:22*	WG1332641
(S) Tetrachloro-m-xylene	*85.5*			*10.0-139*		*08/22/2019 11:22*	WG1332641
(S) Tetrachloro-m-xylene	*84.6*			*10.0-139*		*08/23/2019 18:46*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0157		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Acenaphthene	0.00475	J	0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Acenaphthylene	U		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Benzo(a)anthracene	0.0685		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Benzo(a)pyrene	0.0960		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Benzo(b)fluoranthene	0.128		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Benzo(g,h,i)perylene	0.135		0.000619	0.00619	1	08/22/2019 15:36	WG1332890

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(k)fluoranthene	0.0446		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Chrysene	0.0959		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Dibenz(a,h)anthracene	0.0229		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Fluoranthene	0.121		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Fluorene	U		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Indeno(1,2,3-cd)pyrene	0.0767		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Naphthalene	U		0.00206	0.0206	1	08/22/2019 15:36	WG1332890
Phenanthrene	0.0447		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
Pyrene	0.140		0.000619	0.00619	1	08/22/2019 15:36	WG1332890
1-Methylnaphthalene	0.00207	J	0.00206	0.0206	1	08/22/2019 15:36	WG1332890
2-Methylnaphthalene	0.00295	J	0.00206	0.0206	1	08/22/2019 15:36	WG1332890
2-Chloronaphthalene	U		0.00206	0.0206	1	08/22/2019 15:36	WG1332890
(S) Nitrobenzene-d5	*124*			*14.0-149*		*08/22/2019 15:36*	WG1332890
(S) 2-Fluorobiphenyl	*95.9*			*34.0-125*		*08/22/2019 15:36*	WG1332890
(S) p-Terphenyl-d14	*102*			*23.0-120*		*08/22/2019 15:36*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	1.03		0.0401	0.257	1	08/21/2019 14:01	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	97.7		0.268	1.03	1	08/21/2019 13:33	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.21		0.473	2.06	1	08/21/2019 17:12	WG1331822
Cadmium	1.29		0.0719	0.514	1	08/21/2019 17:12	WG1331822
Chromium	84.6		0.144	1.03	1	08/21/2019 17:12	WG1331822
Lead	147		0.195	0.514	1	08/21/2019 17:12	WG1331822

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00360	0.0175	1	08/22/2019 11:34	WG1332641
PCB 1221	U		0.00552	0.0175	1	08/22/2019 11:34	WG1332641
PCB 1232	U		0.00429	0.0175	1	08/22/2019 11:34	WG1332641
PCB 1242	U		0.00327	0.0175	1	08/22/2019 11:34	WG1332641
PCB 1248	0.115		0.00324	0.0175	1	08/23/2019 19:01	WG1332641
PCB 1254	U		0.00485	0.0175	1	08/22/2019 11:34	WG1332641
PCB 1260	U		0.00508	0.0175	1	08/22/2019 11:34	WG1332641
PCB 1268	0.0752		0.00187	0.0175	1	08/23/2019 19:01	WG1332641
(S) Decachlorobiphenyl	*89.2*			*10.0-135*		*08/23/2019 19:01*	WG1332641
(S) Decachlorobiphenyl	*73.3*			*10.0-135*		*08/22/2019 11:34*	WG1332641
(S) Tetrachloro-m-xylene	*83.2*			*10.0-139*		*08/22/2019 11:34*	WG1332641
(S) Tetrachloro-m-xylene	*81.6*			*10.0-139*		*08/23/2019 19:01*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0765		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Acenaphthene	0.0160		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Acenaphthylene	U		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Benzo(a)anthracene	2.70		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Benzo(a)pyrene	1.52		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Benzo(b)fluoranthene	12.1		0.0123	0.123	20	08/23/2019 13:02	WG1332946
Benzo(g,h,i)perylene	2.65		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Benzo(k)fluoranthene	1.73		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Chrysene	3.58		0.0123	0.123	20	08/23/2019 13:02	WG1332946
Dibenz(a,h)anthracene	1.07		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Fluoranthene	1.71		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Fluorene	0.00893		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Indeno(1,2,3-cd)pyrene	2.44		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Naphthalene	0.00484	J	0.00206	0.0206	1	08/23/2019 02:54	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	0.281		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
Pyrene	1.40		0.000617	0.00617	1	08/23/2019 02:54	WG1332946
1-Methylnaphthalene	0.00247	J	0.00206	0.0206	1	08/23/2019 02:54	WG1332946
2-Methylnaphthalene	0.00382	J	0.00206	0.0206	1	08/23/2019 02:54	WG1332946
2-Chloronaphthalene	U		0.00206	0.0206	1	08/23/2019 02:54	WG1332946
(S) Nitrobenzene-d5	*80.4*			*14.0-149*		*08/23/2019 02:54*	WG1332946
(S) Nitrobenzene-d5	*76.1*	J7		*14.0-149*		*08/23/2019 13:02*	WG1332946
(S) 2-Fluorobiphenyl	*87.0*			*34.0-125*		*08/23/2019 02:54*	WG1332946
(S) 2-Fluorobiphenyl	*74.8*	J7		*34.0-125*		*08/23/2019 13:02*	WG1332946
(S) p-Terphenyl-d14	*89.6*			*23.0-120*		*08/23/2019 02:54*	WG1332946
(S) p-Terphenyl-d14	*86.7*	J7		*23.0-120*		*08/23/2019 13:02*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.2		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.885		0.0405	0.260	1	08/21/2019 14:05	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	90.0		0.271	1.04	1	08/21/2019 14:48	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.8		0.478	2.08	1	08/21/2019 17:14	WG1331822
Cadmium	0.480	J	0.0727	0.520	1	08/21/2019 17:14	WG1331822
Chromium	27.4		0.145	1.04	1	08/21/2019 17:14	WG1331822
Lead	48.3		0.197	0.520	1	08/21/2019 17:14	WG1331822

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.15	J	0.881	2.60	25	08/22/2019 07:39	WG1332522
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*08/22/2019 07:39*	WG1332522

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0197	J	0.0142	0.0260	1	08/21/2019 07:06	WG1332008
Acrylonitrile	U		0.00197	0.0130	1	08/21/2019 07:06	WG1332008
Benzene	0.000576	B J	0.000416	0.00104	1	08/21/2019 07:06	WG1332008
Bromobenzene	U		0.00109	0.0130	1	08/21/2019 07:06	WG1332008
Bromodichloromethane	U		0.000819	0.00260	1	08/21/2019 07:06	WG1332008
Bromoform	U		0.00621	0.0260	1	08/21/2019 07:06	WG1332008
Bromomethane	U		0.00384	0.0130	1	08/21/2019 07:06	WG1332008
n-Butylbenzene	U		0.00399	0.0130	1	08/21/2019 07:06	WG1332008
sec-Butylbenzene	U		0.00263	0.0130	1	08/21/2019 07:06	WG1332008
tert-Butylbenzene	U		0.00161	0.00520	1	08/21/2019 07:06	WG1332008
Carbon tetrachloride	U		0.00112	0.00520	1	08/21/2019 07:06	WG1332008
Chlorobenzene	U		0.000595	0.00260	1	08/21/2019 07:06	WG1332008
Chlorodibromomethane	U		0.000468	0.00260	1	08/21/2019 07:06	WG1332008
Chloroethane	U		0.00112	0.00520	1	08/21/2019 07:06	WG1332008
Chloroform	U		0.000431	0.00260	1	08/21/2019 07:06	WG1332008
Chloromethane	U		0.00144	0.0130	1	08/21/2019 07:06	WG1332008
2-Chlorotoluene	U		0.000956	0.00260	1	08/21/2019 07:06	WG1332008
4-Chlorotoluene	U		0.00117	0.00520	1	08/21/2019 07:06	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00530	0.0260	1	08/21/2019 07:06	WG1332008
1,2-Dibromoethane	U		0.000545	0.00260	1	08/21/2019 07:06	WG1332008
Dibromomethane	U		0.00104	0.00520	1	08/21/2019 07:06	WG1332008
1,2-Dichlorobenzene	U		0.00151	0.00520	1	08/21/2019 07:06	WG1332008
1,3-Dichlorobenzene	U		0.00177	0.00520	1	08/21/2019 07:06	WG1332008
1,4-Dichlorobenzene	U		0.00205	0.00520	1	08/21/2019 07:06	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.000850	0.00260	1	08/21/2019 07:06	WG1332008
1,1-Dichloroethane	U		0.000597	0.00260	1	08/21/2019 07:06	WG1332008
1,2-Dichloroethane	U		0.000494	0.00260	1	08/21/2019 07:06	WG1332008
1,1-Dichloroethene	U		0.000520	0.00260	1	08/21/2019 07:06	WG1332008
cis-1,2-Dichloroethene	U		0.000717	0.00260	1	08/22/2019 00:34	WG1332648
trans-1,2-Dichloroethene	U		0.00149	0.00520	1	08/21/2019 07:06	WG1332008
1,2-Dichloropropane	U		0.00132	0.00520	1	08/21/2019 07:06	WG1332008
1,1-Dichloropropene	U		0.000727	0.00260	1	08/21/2019 07:06	WG1332008
1,3-Dichloropropane	U		0.00182	0.00520	1	08/21/2019 07:06	WG1332008
cis-1,3-Dichloropropene	U		0.000704	0.00260	1	08/21/2019 07:06	WG1332008
trans-1,3-Dichloropropene	U		0.00159	0.00520	1	08/21/2019 07:06	WG1332008
2,2-Dichloropropane	U		0.000824	0.00260	1	08/21/2019 07:06	WG1332008
Di-isopropyl ether	U		0.000364	0.00104	1	08/21/2019 07:06	WG1332008
Ethylbenzene	0.000704	J	0.000551	0.00260	1	08/21/2019 07:06	WG1332008
Hexachloro-1,3-butadiene	U		0.0132	0.0260	1	08/21/2019 07:06	WG1332008
Isopropylbenzene	U		0.000897	0.00260	1	08/21/2019 07:06	WG1332008
p-Isopropyltoluene	U		0.00242	0.00520	1	08/21/2019 07:06	WG1332008
2-Butanone (MEK)	0.0288	B J0	0.0130	0.0260	1	08/21/2019 07:06	WG1332008
Methylene Chloride	U		0.00690	0.0260	1	08/21/2019 07:06	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0104	0.0260	1	08/21/2019 07:06	WG1332008
Methyl tert-butyl ether	U		0.000307	0.00104	1	08/21/2019 07:06	WG1332008
Naphthalene	0.0651		0.00324	0.0130	1	08/21/2019 07:06	WG1332008
n-Propylbenzene	U		0.00123	0.00520	1	08/21/2019 07:06	WG1332008
Styrene	U		0.00284	0.0130	1	08/21/2019 07:06	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000520	0.00260	1	08/21/2019 07:06	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000405	0.00260	1	08/21/2019 07:06	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000701	0.00260	1	08/21/2019 07:06	WG1332008
Tetrachloroethene	0.000818	B J J0	0.000727	0.00260	1	08/21/2019 07:06	WG1332008
Toluene	0.00294	B J	0.00130	0.00520	1	08/21/2019 07:06	WG1332008
1,2,3-Trichlorobenzene	U		0.000649	0.00260	1	08/21/2019 07:06	WG1332008
1,2,4-Trichlorobenzene	U		0.00501	0.0130	1	08/21/2019 07:06	WG1332008
1,1,1-Trichloroethane	U		0.000286	0.00260	1	08/21/2019 07:06	WG1332008
1,1,2-Trichloroethane	U		0.000917	0.00260	1	08/21/2019 07:06	WG1332008
Trichloroethene	U		0.000416	0.00104	1	08/21/2019 07:06	WG1332008
Trichlorofluoromethane	U		0.000520	0.00260	1	08/21/2019 07:06	WG1332008
1,2,3-Trichloropropane	U		0.00530	0.0130	1	08/21/2019 07:06	WG1332008
1,2,4-Trimethylbenzene	0.00144	J	0.00121	0.00520	1	08/21/2019 07:06	WG1332008
1,2,3-Trimethylbenzene	U		0.00119	0.00520	1	08/21/2019 07:06	WG1332008
Vinyl chloride	U		0.000710	0.00260	1	08/22/2019 00:34	WG1332648
1,3,5-Trimethylbenzene	U		0.00112	0.00520	1	08/21/2019 07:06	WG1332008
Xylenes, Total	U		0.00497	0.00675	1	08/21/2019 07:06	WG1332008
(S) Toluene-d8	*106*			*75.0-131*		*08/21/2019 07:06*	WG1332008
(S) Toluene-d8	*103*			*75.0-131*		*08/22/2019 00:34*	WG1332648
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*		*08/21/2019 07:06*	WG1332008
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*		*08/22/2019 00:34*	WG1332648
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*08/21/2019 07:06*	WG1332008
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*08/22/2019 00:34*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	882		138	416	100	08/23/2019 16:03	WG1332645
Residual Range Organics (RRO)	590	J	346	1040	100	08/23/2019 16:03	WG1332645
(S) o-Terphenyl	*267*	J7		*18.0-148*		*08/23/2019 16:03*	WG1332645

Sample Narrative:

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch

L1129818-23 WG1332645: Surrogate failure due to matrix interference

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00364	0.0177	1	08/22/2019 11:47	WG1332641
PCB 1221	U		0.00558	0.0177	1	08/22/2019 11:47	WG1332641
PCB 1232	U		0.00433	0.0177	1	08/22/2019 11:47	WG1332641
PCB 1242	U		0.00330	0.0177	1	08/22/2019 11:47	WG1332641
PCB 1248	1.19		0.00327	0.0177	1	08/23/2019 19:43	WG1332641
PCB 1254	U		0.00490	0.0177	1	08/22/2019 11:47	WG1332641
PCB 1260	U		0.00513	0.0177	1	08/22/2019 11:47	WG1332641
PCB 1268	0.132		0.00189	0.0177	1	08/23/2019 19:43	WG1332641
(S) Decachlorobiphenyl	*80.8*			*10.0-135*		*08/22/2019 11:47*	WG1332641
(S) Decachlorobiphenyl	*94.1*			*10.0-135*		*08/23/2019 19:43*	WG1332641
(S) Tetrachloro-m-xylene	*74.3*			*10.0-139*		*08/22/2019 11:47*	WG1332641
(S) Tetrachloro-m-xylene	*69.6*			*10.0-139*		*08/23/2019 19:43*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	2.01		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Acenaphthene	0.874		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Acenaphthylene	U		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Benzo(a)anthracene	9.11		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Benzo(a)pyrene	9.36		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Benzo(b)fluoranthene	11.5		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Benzo(g,h,i)perylene	5.38		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Benzo(k)fluoranthene	3.21		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Chrysene	10.4		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Dibenz(a,h)anthracene	1.51		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Fluoranthene	14.2		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Fluorene	0.689		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Indeno(1,2,3-cd)pyrene	4.80		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Naphthalene	0.335		0.0104	0.104	5	08/23/2019 05:43	WG1332946
Phenanthrene	10.5		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
Pyrene	14.5		0.00312	0.0312	5	08/23/2019 05:43	WG1332946
1-Methylnaphthalene	0.220		0.0104	0.104	5	08/23/2019 05:43	WG1332946
2-Methylnaphthalene	0.288		0.0104	0.104	5	08/23/2019 05:43	WG1332946
2-Chloronaphthalene	U		0.0104	0.104	5	08/23/2019 05:43	WG1332946
(S) Nitrobenzene-d5	*70.7*			*14.0-149*		*08/23/2019 05:43*	WG1332946
(S) 2-Fluorobiphenyl	*73.3*			*34.0-125*		*08/23/2019 05:43*	WG1332946
(S) p-Terphenyl-d14	*89.1*			*23.0-120*		*08/23/2019 05:43*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.6		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0404	0.259	1	08/21/2019 14:06	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	0.620	J	0.270	1.04	1	08/21/2019 15:26	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.79	J	2.38	10.4	5	08/21/2019 21:02	WG1331822
Cadmium	U		0.362	2.59	5	08/21/2019 21:02	WG1331822
Chromium	5.88		0.725	5.18	5	08/21/2019 21:02	WG1331822
Lead	20.9		0.984	2.59	5	08/21/2019 21:02	WG1331822

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00362	0.0176	1	08/22/2019 11:59	WG1332641
PCB 1221	U		0.00556	0.0176	1	08/22/2019 11:59	WG1332641
PCB 1232	U		0.00432	0.0176	1	08/22/2019 11:59	WG1332641
PCB 1242	U		0.00329	0.0176	1	08/22/2019 11:59	WG1332641
PCB 1248	0.0493		0.00326	0.0176	1	08/23/2019 19:58	WG1332641
PCB 1254	U		0.00489	0.0176	1	08/22/2019 11:59	WG1332641
PCB 1260	U		0.00511	0.0176	1	08/22/2019 11:59	WG1332641
PCB 1268	U		0.00188	0.0176	1	08/22/2019 11:59	WG1332641
(S) Decachlorobiphenyl	*81.5*			*10.0-135*		*08/23/2019 19:58*	WG1332641
(S) Decachlorobiphenyl	*78.3*			*10.0-135*		*08/22/2019 11:59*	WG1332641
(S) Tetrachloro-m-xylene	*79.1*			*10.0-139*		*08/23/2019 19:58*	WG1332641
(S) Tetrachloro-m-xylene	*79.7*			*10.0-139*		*08/22/2019 11:59*	WG1332641

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00670		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Acenaphthene	0.00386	J	0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Acenaphthylene	U		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Benzo(a)anthracene	0.0506		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Benzo(a)pyrene	0.0655		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Benzo(b)fluoranthene	0.0931		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Benzo(g,h,i)perylene	0.0555		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Benzo(k)fluoranthene	0.0322		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Chrysene	0.0648		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Dibenz(a,h)anthracene	0.0134		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Fluoranthene	0.0895		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Fluorene	0.00175	J	0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Indeno(1,2,3-cd)pyrene	0.0428		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Naphthalene	U		0.00207	0.0207	1	08/22/2019 23:22	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	0.0327		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
Pyrene	0.0759		0.000621	0.00621	1	08/22/2019 23:22	WG1332946
1-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 23:22	WG1332946
2-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 23:22	WG1332946
2-Chloronaphthalene	U		0.00207	0.0207	1	08/22/2019 23:22	WG1332946
(S) Nitrobenzene-d5	*69.4*			*14.0-149*		*08/22/2019 23:22*	WG1332946
(S) 2-Fluorobiphenyl	*75.8*			*34.0-125*		*08/22/2019 23:22*	WG1332946
(S) p-Terphenyl-d14	*75.4*			*23.0-120*		*08/22/2019 23:22*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.9		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.183	J	0.0398	0.255	1	08/21/2019 14:07	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	94.7		0.267	1.02	1	08/21/2019 16:04	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.3		0.470	2.04	1	08/21/2019 17:25	WG1331822
Cadmium	U		0.0715	0.511	1	08/21/2019 17:25	WG1331822
Chromium	21.2		0.143	1.02	1	08/21/2019 17:25	WG1331822
Lead	23.0		0.194	0.511	1	08/21/2019 17:25	WG1331822

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00357	0.0174	1	08/23/2019 14:21	WG1332642
PCB 1221	U		0.00548	0.0174	1	08/23/2019 14:21	WG1332642
PCB 1232	U		0.00426	0.0174	1	08/23/2019 14:21	WG1332642
PCB 1242	U		0.00325	0.0174	1	08/23/2019 14:21	WG1332642
PCB 1248	2.72		0.0160	0.0868	5	08/23/2019 20:03	WG1332642
PCB 1254	U		0.00482	0.0174	1	08/23/2019 14:21	WG1332642
PCB 1260	U		0.00504	0.0174	1	08/23/2019 14:21	WG1332642
PCB 1268	0.358		0.00186	0.0174	1	08/23/2019 14:21	WG1332642
(S) Decachlorobiphenyl	*79.9*			*10.0-135*		*08/23/2019 14:21*	WG1332642
(S) Decachlorobiphenyl	*96.1*			*10.0-135*		*08/23/2019 20:03*	WG1332642
(S) Tetrachloro-m-xylene	*66.8*			*10.0-139*		*08/23/2019 14:21*	WG1332642
(S) Tetrachloro-m-xylene	*71.7*			*10.0-139*		*08/23/2019 20:03*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.807		0.000613	0.00613	1	08/23/2019 04:39	WG1332946
Acenaphthene	0.612		0.000613	0.00613	1	08/23/2019 04:39	WG1332946
Acenaphthylene	0.00348	J	0.000613	0.00613	1	08/23/2019 04:39	WG1332946
Benzo(a)anthracene	5.41		0.0123	0.123	20	08/23/2019 13:45	WG1332946
Benzo(a)pyrene	6.41		0.0123	0.123	20	08/23/2019 13:45	WG1332946
Benzo(b)fluoranthene	8.28		0.0123	0.123	20	08/23/2019 13:45	WG1332946
Benzo(g,h,i)perylene	3.47		0.000613	0.00613	1	08/23/2019 04:39	WG1332946
Benzo(k)fluoranthene	1.81		0.000613	0.00613	1	08/23/2019 04:39	WG1332946
Chrysene	5.51		0.0123	0.123	20	08/23/2019 13:45	WG1332946
Dibenz(a,h)anthracene	1.02		0.000613	0.00613	1	08/23/2019 04:39	WG1332946
Fluoranthene	7.56		0.0123	0.123	20	08/23/2019 13:45	WG1332946
Fluorene	0.253		0.000613	0.00613	1	08/23/2019 04:39	WG1332946
Indeno(1,2,3-cd)pyrene	3.00		0.000613	0.00613	1	08/23/2019 04:39	WG1332946
Naphthalene	0.176		0.00204	0.0204	1	08/23/2019 04:39	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	3.95		0.0123	0.123	20	08/23/2019 13:45	WG1332946
Pyrene	9.51		0.0123	0.123	20	08/23/2019 13:45	WG1332946
1-Methylnaphthalene	0.0874		0.00204	0.0204	1	08/23/2019 04:39	WG1332946
2-Methylnaphthalene	0.112		0.00204	0.0204	1	08/23/2019 04:39	WG1332946
2-Chloronaphthalene	U		0.00204	0.0204	1	08/23/2019 04:39	WG1332946
(S) Nitrobenzene-d5	*78.6*			*14.0-149*		*08/23/2019 04:39*	WG1332946
(S) Nitrobenzene-d5	*67.1*	J7		*14.0-149*		*08/23/2019 13:45*	WG1332946
(S) 2-Fluorobiphenyl	*72.7*	J7		*34.0-125*		*08/23/2019 13:45*	WG1332946
(S) 2-Fluorobiphenyl	*85.3*			*34.0-125*		*08/23/2019 04:39*	WG1332946
(S) p-Terphenyl-d14	*89.8*	J7		*23.0-120*		*08/23/2019 13:45*	WG1332946
(S) p-Terphenyl-d14	*82.5*			*23.0-120*		*08/23/2019 04:39*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.2		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	3.40		0.199	1.27	5	08/21/2019 15:43	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	137		1.32	5.09	5	08/22/2019 08:52	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.88		0.468	2.04	1	08/21/2019 17:28	WG1331822
Cadmium	U		0.0713	0.509	1	08/21/2019 17:28	WG1331822
Chromium	13.7		0.143	1.02	1	08/21/2019 17:28	WG1331822
Lead	16.3		0.193	0.509	1	08/21/2019 17:28	WG1331822

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00356	0.0173	1	08/23/2019 13:12	WG1332642
PCB 1221	U		0.00547	0.0173	1	08/23/2019 13:12	WG1332642
PCB 1232	U		0.00425	0.0173	1	08/23/2019 13:12	WG1332642
PCB 1242	U		0.00324	0.0173	1	08/23/2019 13:12	WG1332642
PCB 1248	0.935		0.00321	0.0173	1	08/23/2019 13:12	WG1332642
PCB 1254	U		0.00481	0.0173	1	08/23/2019 13:12	WG1332642
PCB 1260	U		0.00503	0.0173	1	08/23/2019 13:12	WG1332642
PCB 1268	0.987		0.00371	0.0346	2	08/23/2019 20:17	WG1332642
(S) Decachlorobiphenyl	*138*	J1		*10.0-135*		*08/23/2019 13:12*	WG1332642
(S) Decachlorobiphenyl	*113*			*10.0-135*		*08/23/2019 20:17*	WG1332642
(S) Tetrachloro-m-xylene	*83.3*			*10.0-139*		*08/23/2019 20:17*	WG1332642
(S) Tetrachloro-m-xylene	*85.4*			*10.0-139*		*08/23/2019 13:12*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	1.89		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Acenaphthene	1.49		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Acenaphthylene	0.00800	J	0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Benzo(a)anthracene	14.4		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Benzo(a)pyrene	15.4		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Benzo(b)fluoranthene	19.0		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Benzo(g,h,i)perylene	10.1		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Benzo(k)fluoranthene	5.80		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Chrysene	16.6		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Dibenz(a,h)anthracene	2.74		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Fluoranthene	20.0		0.0122	0.122	20	08/23/2019 14:07	WG1332946
Fluorene	0.542		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Indeno(1,2,3-cd)pyrene	8.66		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Naphthalene	0.270		0.0102	0.102	5	08/23/2019 05:00	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	10.3		0.00305	0.0305	5	08/23/2019 05:00	WG1332946
Pyrene	25.9		0.0122	0.122	20	08/23/2019 14:07	WG1332946
1-Methylnaphthalene	0.145		0.0102	0.102	5	08/23/2019 05:00	WG1332946
2-Methylnaphthalene	0.189		0.0102	0.102	5	08/23/2019 05:00	WG1332946
2-Chloronaphthalene	U		0.0102	0.102	5	08/23/2019 05:00	WG1332946
(S) Nitrobenzene-d5	*72.3*			*14.0-149*		*08/23/2019 05:00*	WG1332946
(S) Nitrobenzene-d5	*66.1*	J7		*14.0-149*		*08/23/2019 14:07*	WG1332946
(S) 2-Fluorobiphenyl	*77.4*			*34.0-125*		*08/23/2019 05:00*	WG1332946
(S) 2-Fluorobiphenyl	*74.1*	J7		*34.0-125*		*08/23/2019 14:07*	WG1332946
(S) p-Terphenyl-d14	*96.7*	J7		*23.0-120*		*08/23/2019 14:07*	WG1332946
(S) p-Terphenyl-d14	*90.7*			*23.0-120*		*08/23/2019 05:00*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.120	J	0.0431	0.276	1	08/21/2019 14:11	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	701		2.88	11.0	10	08/22/2019 09:27	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	13.7		0.508	2.21	1	08/21/2019 17:30	WG1331822
Cadmium	1.95		0.0773	0.552	1	08/21/2019 17:30	WG1331822
Chromium	16.7		0.155	1.10	1	08/21/2019 17:30	WG1331822
Lead	154		0.210	0.552	1	08/21/2019 17:30	WG1331822

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	344	J	147	442	100	08/23/2019 16:30	WG1332645
Residual Range Organics (RRO)	1340		368	1100	100	08/23/2019 16:30	WG1332645
(S) o-Terphenyl	*942*	J7		*18.0-148*		*08/23/2019 16:30*	WG1332645

Sample Narrative:

L1129818-27 WG1332645: Surrogate failure due to matrix interference

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00387	0.0188	1	08/23/2019 13:26	WG1332642
PCB 1221	U		0.00593	0.0188	1	08/23/2019 13:26	WG1332642
PCB 1232	U		0.00461	0.0188	1	08/23/2019 13:26	WG1332642
PCB 1242	U		0.00351	0.0188	1	08/23/2019 13:26	WG1332642
PCB 1248	U		0.00348	0.0188	1	08/23/2019 13:26	WG1332642
PCB 1254	U		0.00522	0.0188	1	08/23/2019 13:26	WG1332642
PCB 1260	U		0.00546	0.0188	1	08/23/2019 13:26	WG1332642
PCB 1268	1.98		0.0101	0.0939	5	08/23/2019 20:31	WG1332642
(S) Decachlorobiphenyl	*127*			*10.0-135*		*08/23/2019 20:31*	WG1332642
(S) Decachlorobiphenyl	*134*			*10.0-135*		*08/23/2019 13:26*	WG1332642
(S) Tetrachloro-m-xylene	*63.3*			*10.0-139*		*08/23/2019 13:26*	WG1332642
(S) Tetrachloro-m-xylene	*62.1*			*10.0-139*		*08/23/2019 20:31*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	2.95		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Acenaphthene	1.62		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Acenaphthylene	U		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Benzo(a)anthracene	20.2		0.00663	0.0663	10	08/23/2019 06:25	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(a)pyrene	21.4		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Benzo(b)fluoranthene	29.4		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Benzo(g,h,i)perylene	12.8		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Benzo(k)fluoranthene	7.13		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Chrysene	22.9		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Dibenz(a,h)anthracene	3.28		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Fluoranthene	30.7		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Fluorene	0.847		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Indeno(1,2,3-cd)pyrene	11.4		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Naphthalene	0.235		0.0221	0.221	10	08/23/2019 06:25	WG1332946
Phenanthrene	13.7		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
Pyrene	28.1		0.00663	0.0663	10	08/23/2019 06:25	WG1332946
1-Methylnaphthalene	0.119	J	0.0221	0.221	10	08/23/2019 06:25	WG1332946
2-Methylnaphthalene	0.191	J	0.0221	0.221	10	08/23/2019 06:25	WG1332946
2-Chloronaphthalene	U		0.0221	0.221	10	08/23/2019 06:25	WG1332946
(S) Nitrobenzene-d5	*49.1*			*14.0-149*		*08/23/2019 06:25*	WG1332946
(S) 2-Fluorobiphenyl	*53.1*			*34.0-125*		*08/23/2019 06:25*	WG1332946
(S) p-Terphenyl-d14	*74.3*			*23.0-120*		*08/23/2019 06:25*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.0		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.0433	J	0.0394	0.252	1	08/21/2019 14:12	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	4.42		0.247	0.948	.9391435	08/21/2019 17:58	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.10		0.465	2.02	1	08/21/2019 16:58	WG1331822
Cadmium	0.240	J	0.0707	0.505	1	08/21/2019 16:58	WG1331822
Chromium	44.1	J6 O1	0.141	1.01	1	08/21/2019 16:58	WG1331822
Lead	14.7	O1	0.192	0.505	1	08/21/2019 16:58	WG1331822

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00353	0.0172	1	08/23/2019 11:48	WG1332642
PCB 1221	U		0.00542	0.0172	1	08/23/2019 11:48	WG1332642
PCB 1232	U		0.00421	0.0172	1	08/23/2019 11:48	WG1332642
PCB 1242	U		0.00321	0.0172	1	08/23/2019 11:48	WG1332642
PCB 1248	0.264		0.00318	0.0172	1	08/23/2019 11:48	WG1332642
PCB 1254	U		0.00477	0.0172	1	08/23/2019 11:48	WG1332642
PCB 1260	U		0.00499	0.0172	1	08/23/2019 11:48	WG1332642
PCB 1268	0.0371		0.00184	0.0172	1	08/23/2019 11:48	WG1332642
(S) Decachlorobiphenyl	*99.1*			*10.0-135*		*08/23/2019 11:48*	WG1332642
(S) Tetrachloro-m-xylene	*96.2*			*10.0-139*		*08/23/2019 11:48*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0120		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Acenaphthene	0.00509	J	0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Acenaphthylene	U		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Benzo(a)anthracene	0.166		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Benzo(a)pyrene	0.204		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Benzo(b)fluoranthene	0.294		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Benzo(g,h,i)perylene	0.147		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Benzo(k)fluoranthene	0.0674		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Chrysene	0.145		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Dibenz(a,h)anthracene	0.0477		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Fluoranthene	0.190		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Fluorene	0.00252	J	0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Indeno(1,2,3-cd)pyrene	0.0943		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Naphthalene	U		0.00202	0.0202	1	08/23/2019 03:15	WG1332946
Phenanthrene	0.0622		0.000606	0.00606	1	08/23/2019 03:15	WG1332946
Pyrene	0.449		0.000606	0.00606	1	08/23/2019 03:15	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00202	0.0202	1	08/23/2019 03:15	WG1332946
2-Methylnaphthalene	U		0.00202	0.0202	1	08/23/2019 03:15	WG1332946
2-Chloronaphthalene	U		0.00202	0.0202	1	08/23/2019 03:15	WG1332946
(S) Nitrobenzene-d5	*83.6*			*14.0-149*		*08/23/2019 03:15*	WG1332946
(S) 2-Fluorobiphenyl	*90.3*			*34.0-125*		*08/23/2019 03:15*	WG1332946
(S) p-Terphenyl-d14	*88.5*			*23.0-120*		*08/23/2019 03:15*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.3		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.0633	J	0.0393	0.252	1	08/21/2019 14:14	WG1331437

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	31.2		0.263	1.01	1	08/21/2019 18:36	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.44		0.463	2.01	1	08/21/2019 17:33	WG1331822
Cadmium	0.120	J	0.0705	0.504	1	08/21/2019 17:33	WG1331822
Chromium	42.3		0.141	1.01	1	08/21/2019 17:33	WG1331822
Lead	20.7		0.191	0.504	1	08/21/2019 17:33	WG1331822

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00353	0.0171	1	08/23/2019 12:30	WG1332642
PCB 1221	U		0.00541	0.0171	1	08/23/2019 12:30	WG1332642
PCB 1232	U		0.00420	0.0171	1	08/23/2019 12:30	WG1332642
PCB 1242	U		0.00320	0.0171	1	08/23/2019 12:30	WG1332642
PCB 1248	0.809		0.00317	0.0171	1	08/23/2019 12:30	WG1332642
PCB 1254	U		0.00476	0.0171	1	08/23/2019 12:30	WG1332642
PCB 1260	U		0.00498	0.0171	1	08/23/2019 12:30	WG1332642
PCB 1268	0.165		0.00183	0.0171	1	08/23/2019 12:30	WG1332642
(S) Decachlorobiphenyl	*110*			*10.0-135*		*08/23/2019 12:30*	WG1332642
(S) Tetrachloro-m-xylene	*84.0*			*10.0-139*		*08/23/2019 12:30*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0401		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Acenaphthene	0.0202		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Acenaphthylene	U		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Benzo(a)anthracene	0.359		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Benzo(a)pyrene	0.352		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Benzo(b)fluoranthene	0.541		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Benzo(g,h,i)perylene	0.258		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Benzo(k)fluoranthene	0.132		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Chrysene	0.438		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Dibenz(a,h)anthracene	0.0741		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Fluoranthene	0.600		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Fluorene	0.00983		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Indeno(1,2,3-cd)pyrene	0.186		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Naphthalene	0.00214	J	0.00201	0.0201	1	08/23/2019 03:36	WG1332946
Phenanthrene	0.244		0.000604	0.00604	1	08/23/2019 03:36	WG1332946
Pyrene	0.753		0.000604	0.00604	1	08/23/2019 03:36	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00201	0.0201	1	08/23/2019 03:36	WG1332946
2-Methylnaphthalene	0.00225	J	0.00201	0.0201	1	08/23/2019 03:36	WG1332946
2-Chloronaphthalene	U		0.00201	0.0201	1	08/23/2019 03:36	WG1332946
(S) Nitrobenzene-d5	*73.6*			*14.0-149*		*08/23/2019 03:36*	WG1332946
(S) 2-Fluorobiphenyl	*79.4*			*34.0-125*		*08/23/2019 03:36*	WG1332946
(S) p-Terphenyl-d14	*82.6*			*23.0-120*		*08/23/2019 03:36*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.2		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0393	0.252	1	08/23/2019 12:34	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	17.6		0.263	1.01	1	08/21/2019 19:14	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.84		0.464	2.02	1	08/21/2019 17:36	WG1331822
Cadmium	0.140	J	0.0706	0.504	1	08/21/2019 17:36	WG1331822
Chromium	37.8		0.141	1.01	1	08/21/2019 17:36	WG1331822
Lead	16.3		0.192	0.504	1	08/21/2019 17:36	WG1331822

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00353	0.0171	1	08/23/2019 12:02	WG1332642
PCB 1221	U		0.00541	0.0171	1	08/23/2019 12:02	WG1332642
PCB 1232	U		0.00420	0.0171	1	08/23/2019 12:02	WG1332642
PCB 1242	U		0.00321	0.0171	1	08/23/2019 12:02	WG1332642
PCB 1248	0.663		0.00318	0.0171	1	08/23/2019 12:02	WG1332642
PCB 1254	U		0.00476	0.0171	1	08/23/2019 12:02	WG1332642
PCB 1260	U		0.00498	0.0171	1	08/23/2019 12:02	WG1332642
PCB 1268	0.0435		0.00183	0.0171	1	08/23/2019 12:02	WG1332642
(S) Decachlorobiphenyl	*104*			*10.0-135*		*08/23/2019 12:02*	WG1332642
(S) Tetrachloro-m-xylene	*84.7*			*10.0-139*		*08/23/2019 12:02*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0376		0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Acenaphthene	0.0149		0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Acenaphthylene	U		0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Benzo(a)anthracene	0.308	J5	0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Benzo(a)pyrene	0.364	V	0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Benzo(b)fluoranthene	0.528	J3 V	0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Benzo(g,h,i)perylene	0.322	J5	0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Benzo(k)fluoranthene	0.153		0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Chrysene	0.304	J5	0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Dibenz(a,h)anthracene	0.0812		0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Fluoranthene	0.488	V	0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Fluorene	0.00915		0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Indeno(1,2,3-cd)pyrene	0.233	J5	0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Naphthalene	0.00204	J	0.00202	0.0202	1	08/23/2019 01:50	WG1332946
Phenanthrene	0.190	J5	0.000605	0.00605	1	08/23/2019 01:50	WG1332946
Pyrene	0.546	V	0.000605	0.00605	1	08/23/2019 01:50	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00202	0.0202	1	08/23/2019 01:50	WG1332946
2-Methylnaphthalene	0.00211	J	0.00202	0.0202	1	08/23/2019 01:50	WG1332946
2-Chloronaphthalene	U		0.00202	0.0202	1	08/23/2019 01:50	WG1332946
(S) Nitrobenzene-d5	*75.4*			*14.0-149*		*08/23/2019 01:50*	WG1332946
(S) 2-Fluorobiphenyl	*82.9*			*34.0-125*		*08/23/2019 01:50*	WG1332946
(S) p-Terphenyl-d14	*89.0*			*23.0-120*		*08/23/2019 01:50*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.9		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0415	0.266	1	08/23/2019 12:35	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	1.00	J	0.278	1.07	1	08/21/2019 21:08	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	U		0.490	2.13	1	08/21/2019 17:39	WG1331822
Cadmium	0.151	J	0.0746	0.533	1	08/21/2019 17:39	WG1331822
Chromium	3.11		0.149	1.07	1	08/21/2019 17:39	WG1331822
Lead	4.71		0.202	0.533	1	08/21/2019 17:39	WG1331822

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		70.8	213	50	08/23/2019 16:43	WG1332645
Residual Range Organics (RRO)	227	J	177	533	50	08/23/2019 16:43	WG1332645
(S) o-Terphenyl	*86.3*	J7		*18.0-148*		*08/23/2019 16:43*	WG1332645

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00373	0.0181	1	08/23/2019 12:44	WG1332642
PCB 1221	U		0.00572	0.0181	1	08/23/2019 12:44	WG1332642
PCB 1232	U		0.00444	0.0181	1	08/23/2019 12:44	WG1332642
PCB 1242	U		0.00339	0.0181	1	08/23/2019 12:44	WG1332642
PCB 1248	U		0.00335	0.0181	1	08/23/2019 12:44	WG1332642
PCB 1254	U		0.00503	0.0181	1	08/23/2019 12:44	WG1332642
PCB 1260	U		0.00526	0.0181	1	08/23/2019 12:44	WG1332642
PCB 1268	0.758		0.00194	0.0181	1	08/23/2019 12:44	WG1332642
(S) Decachlorobiphenyl	*115*			*10.0-135*		*08/23/2019 12:44*	WG1332642
(S) Tetrachloro-m-xylene	*72.9*			*10.0-139*		*08/23/2019 12:44*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	1.09		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Acenaphthene	0.818		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Acenaphthylene	0.0142		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Benzo(a)anthracene	5.69		0.0128	0.128	20	08/23/2019 13:24	WG1332946
Benzo(a)pyrene	4.08		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Benzo(b)fluoranthene	7.81		0.0128	0.128	20	08/23/2019 13:24	WG1332946
Benzo(g,h,i)perylene	2.51		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Benzo(k)fluoranthene	1.27		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Chrysene	6.11		0.0128	0.128	20	08/23/2019 13:24	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	0.809		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Fluoranthene	10.8		0.0128	0.128	20	08/23/2019 13:24	WG1332946
Fluorene	0.358		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Indeno(1,2,3-cd)pyrene	2.30		0.000639	0.00639	1	08/23/2019 04:18	WG1332946
Naphthalene	0.210		0.00213	0.0213	1	08/23/2019 04:18	WG1332946
Phenanthrene	7.90		0.0128	0.128	20	08/23/2019 13:24	WG1332946
Pyrene	12.1		0.0128	0.128	20	08/23/2019 13:24	WG1332946
1-Methylnaphthalene	0.0977		0.00213	0.0213	1	08/23/2019 04:18	WG1332946
2-Methylnaphthalene	0.113		0.00213	0.0213	1	08/23/2019 04:18	WG1332946
2-Chloronaphthalene	U		0.00213	0.0213	1	08/23/2019 04:18	WG1332946
(S) Nitrobenzene-d5	*67.4*	J7		*14.0-149*		*08/23/2019 13:24*	WG1332946
(S) Nitrobenzene-d5	*69.6*			*14.0-149*		*08/23/2019 04:18*	WG1332946
(S) 2-Fluorobiphenyl	*69.5*	J7		*34.0-125*		*08/23/2019 13:24*	WG1332946
(S) 2-Fluorobiphenyl	*74.4*			*34.0-125*		*08/23/2019 04:18*	WG1332946
(S) p-Terphenyl-d14	*92.4*	J7		*23.0-120*		*08/23/2019 13:24*	WG1332946
(S) p-Terphenyl-d14	*78.2*			*23.0-120*		*08/23/2019 04:18*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.7		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U	J3 J6	0.0391	0.251	1	08/23/2019 12:36	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	56.7		0.262	1.00	1	08/21/2019 21:46	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.93		0.461	2.01	1	08/21/2019 17:41	WG1331822
Cadmium	1.08		0.0702	0.501	1	08/21/2019 17:41	WG1331822
Chromium	16.6		0.140	1.00	1	08/21/2019 17:41	WG1331822
Lead	76.2		0.191	0.501	1	08/21/2019 17:41	WG1331822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.107		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Acenaphthene	0.0807		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Acenaphthylene	0.00103	J	0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Benzo(a)anthracene	0.710		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Benzo(a)pyrene	0.802		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Benzo(b)fluoranthene	1.17		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Benzo(g,h,i)perylene	0.622		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Benzo(k)fluoranthene	0.412		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Chrysene	0.779		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Dibenz(a,h)anthracene	0.160		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Fluoranthene	1.44		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Fluorene	0.0423		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Indeno(1,2,3-cd)pyrene	0.541		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Naphthalene	0.0206		0.00201	0.0201	1	08/23/2019 03:57	WG1332946
Phenanthrene	0.792		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
Pyrene	1.24		0.000602	0.00602	1	08/23/2019 03:57	WG1332946
1-Methylnaphthalene	0.00858	J	0.00201	0.0201	1	08/23/2019 03:57	WG1332946
2-Methylnaphthalene	0.0102	J	0.00201	0.0201	1	08/23/2019 03:57	WG1332946
2-Chloronaphthalene	U		0.00201	0.0201	1	08/23/2019 03:57	WG1332946
(S) Nitrobenzene-d5	*72.0*			*14.0-149*		*08/23/2019 03:57*	WG1332946
(S) 2-Fluorobiphenyl	*78.2*			*34.0-125*		*08/23/2019 03:57*	WG1332946
(S) p-Terphenyl-d14	*79.9*			*23.0-120*		*08/23/2019 03:57*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.0849	J	0.0396	0.254	1	08/23/2019 12:42	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	1220		5.05	19.3	19.04037	08/22/2019 10:03	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.75		0.467	2.03	1	08/21/2019 17:44	WG1331822
Cadmium	1.05		0.0711	0.508	1	08/21/2019 17:44	WG1331822
Chromium	1.81		0.142	1.02	1	08/21/2019 17:44	WG1331822
Lead	12.8		0.193	0.508	1	08/21/2019 17:44	WG1331822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0899		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Acenaphthene	U		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Acenaphthylene	U		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Benzo(a)anthracene	0.172		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Benzo(a)pyrene	0.124		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Benzo(b)fluoranthene	0.536		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Benzo(g,h,i)perylene	0.242		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Benzo(k)fluoranthene	0.0943		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Chrysene	0.349		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Dibenz(a,h)anthracene	0.0541		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Fluoranthene	0.384		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Fluorene	U		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Indeno(1,2,3-cd)pyrene	0.142		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Naphthalene	U		0.00203	0.0203	1	08/22/2019 23:43	WG1332946
Phenanthrene	0.0905		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
Pyrene	0.298		0.000610	0.00610	1	08/22/2019 23:43	WG1332946
1-Methylnaphthalene	U		0.00203	0.0203	1	08/22/2019 23:43	WG1332946
2-Methylnaphthalene	U		0.00203	0.0203	1	08/22/2019 23:43	WG1332946
2-Chloronaphthalene	U		0.00203	0.0203	1	08/22/2019 23:43	WG1332946
(S) Nitrobenzene-d5	*42.5*			*14.0-149*		*08/22/2019 23:43*	WG1332946
(S) 2-Fluorobiphenyl	*46.0*			*34.0-125*		*08/22/2019 23:43*	WG1332946
(S) p-Terphenyl-d14	*47.7*			*23.0-120*		*08/22/2019 23:43*	WG1332946

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	08/22/2019 20:40	WG1332926

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2060		140	420	100	08/23/2019 15:50	WG1332645
Residual Range Organics (RRO)	2080		350	1050	100	08/23/2019 15:50	WG1332645
(S) o-Terphenyl	*442*	J7		*18.0-148*		*08/23/2019 15:50*	WG1332645

Sample Narrative:

L1129818-34 WG1332645: Surrogate failure due to matrix interference

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00368	0.0179	1	08/23/2019 13:40	WG1332642
PCB 1221	U		0.00564	0.0179	1	08/23/2019 13:40	WG1332642
PCB 1232	U		0.00438	0.0179	1	08/23/2019 13:40	WG1332642
PCB 1242	U		0.00334	0.0179	1	08/23/2019 13:40	WG1332642
PCB 1248	U		0.00331	0.0179	1	08/23/2019 13:40	WG1332642
PCB 1254	U		0.00496	0.0179	1	08/23/2019 13:40	WG1332642
PCB 1260	U		0.00519	0.0179	1	08/23/2019 13:40	WG1332642
PCB 1268	U		0.00191	0.0179	1	08/23/2019 13:40	WG1332642
(S) Decachlorobiphenyl	*119*			*10.0-135*		*08/23/2019 13:40*	WG1332642
(S) Tetrachloro-m-xylene	*78.1*			*10.0-139*		*08/23/2019 13:40*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
Acenaphthene	0.595		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
Acenaphthylene	U		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
Benzo(a)anthracene	U		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
Benzo(a)pyrene	0.393		0.0126	0.126	20	08/22/2019 21:42	WG1332890
Benzo(b)fluoranthene	U		0.0126	0.126	20	08/22/2019 21:42	WG1332890
Benzo(g,h,i)perylene	0.361		0.0126	0.126	20	08/22/2019 21:42	WG1332890
Benzo(k)fluoranthene	U		0.0126	0.126	20	08/22/2019 21:42	WG1332890
Chrysene	U		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
Dibenz(a,h)anthracene	U		0.0126	0.126	20	08/22/2019 21:42	WG1332890
Fluoranthene	U		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
Fluorene	U		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
Indeno(1,2,3-cd)pyrene	0.129		0.0126	0.126	20	08/22/2019 21:42	WG1332890
Naphthalene	U		0.00210	0.0210	1	08/22/2019 20:47	WG1332890
Phenanthrene	0.405		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
Pyrene	U		0.000630	0.00630	1	08/22/2019 20:47	WG1332890
1-Methylnaphthalene	U		0.00210	0.0210	1	08/22/2019 20:47	WG1332890
2-Methylnaphthalene	U		0.00210	0.0210	1	08/22/2019 20:47	WG1332890
2-Chloronaphthalene	U		0.00210	0.0210	1	08/22/2019 20:47	WG1332890
(S) Nitrobenzene-d5	*120*			*14.0-149*		*08/22/2019 20:47*	WG1332890
(S) Nitrobenzene-d5	*114*	J7		*14.0-149*		*08/22/2019 21:42*	WG1332890
(S) 2-Fluorobiphenyl	*120*	J7		*34.0-125*		*08/22/2019 21:42*	WG1332890
(S) 2-Fluorobiphenyl	*121*			*34.0-125*		*08/22/2019 20:47*	WG1332890
(S) p-Terphenyl-d14	*131*	J1		*23.0-120*		*08/22/2019 20:47*	WG1332890
(S) p-Terphenyl-d14	*132*	J7		*23.0-120*		*08/22/2019 21:42*	WG1332890

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch

Sample Narrative:

L1129818-34 WG1332890: IS/SURR failed on lower dilution.

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.2		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0405	0.260	1	08/23/2019 12:44	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	3.73		0.271	1.04	1	08/21/2019 23:02	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.97		0.478	2.08	1	08/21/2019 17:46	WG1331822
Cadmium	U		0.0727	0.520	1	08/21/2019 17:46	WG1331822
Chromium	11.7		0.145	1.04	1	08/21/2019 17:46	WG1331822
Lead	7.73		0.197	0.520	1	08/21/2019 17:46	WG1331822

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	31.0	J	13.8	41.6	10	08/23/2019 07:54	WG1332942
Residual Range Organics (RRO)	45.0	J	34.6	104	10	08/23/2019 07:54	WG1332942
(S) o-Terphenyl	*71.8*			*18.0-148*		*08/23/2019 07:54*	WG1332942

Sample Narrative:

L1129818-35 WG1332942: Diluted due to sample extract viscosity, lower dilution not viable.

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00364	0.0177	1	08/25/2019 14:42	WG1332642
PCB 1221	U		0.00558	0.0177	1	08/25/2019 14:42	WG1332642
PCB 1232	U		0.00433	0.0177	1	08/25/2019 14:42	WG1332642
PCB 1242	U		0.00330	0.0177	1	08/25/2019 14:42	WG1332642
PCB 1248	U		0.00327	0.0177	1	08/25/2019 14:42	WG1332642
PCB 1254	0.0338		0.00491	0.0177	1	08/25/2019 14:42	WG1332642
PCB 1260	U		0.00513	0.0177	1	08/25/2019 14:42	WG1332642
PCB 1268	U		0.00189	0.0177	1	08/25/2019 14:42	WG1332642
(S) Decachlorobiphenyl	*116*			*10.0-135*		*08/25/2019 14:42*	WG1332642
(S) Tetrachloro-m-xylene	*93.5*			*10.0-139*		*08/25/2019 14:42*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00303	J	0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Acenaphthene	U		0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Acenaphthylene	U		0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Benzo(a)anthracene	0.00220	J	0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Benzo(a)pyrene	0.00270	J	0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Benzo(b)fluoranthene	0.00293	J	0.000624	0.00624	1	08/22/2019 15:57	WG1332890

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	0.0286		0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Benzo(k)fluoranthene	U		0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Chrysene	0.00189	J	0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Dibenz(a,h)anthracene	U		0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Fluoranthene	0.00335	J	0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Fluorene	U		0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Indeno(1,2,3-cd)pyrene	0.00168	J	0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Naphthalene	0.0303		0.00208	0.0208	1	08/22/2019 15:57	WG1332890
Phenanthrene	0.00208	J	0.000624	0.00624	1	08/22/2019 15:57	WG1332890
Pyrene	0.00864		0.000624	0.00624	1	08/22/2019 15:57	WG1332890
1-Methylnaphthalene	0.0132	J	0.00208	0.0208	1	08/22/2019 15:57	WG1332890
2-Methylnaphthalene	0.0364		0.00208	0.0208	1	08/22/2019 15:57	WG1332890
2-Chloronaphthalene	U		0.00208	0.0208	1	08/22/2019 15:57	WG1332890
(S) Nitrobenzene-d5	*127*			*14.0-149*		*08/22/2019 15:57*	WG1332890
(S) 2-Fluorobiphenyl	*97.4*			*34.0-125*		*08/22/2019 15:57*	WG1332890
(S) p-Terphenyl-d14	*106*			*23.0-120*		*08/22/2019 15:57*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.7		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0403	0.259	1	08/23/2019 12:45	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	9.53		0.270	1.03	1	08/21/2019 23:40	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.83		0.476	2.07	1	08/21/2019 17:54	WG1331822
Cadmium	U		0.0724	0.517	1	08/21/2019 17:54	WG1331822
Chromium	8.87		0.145	1.03	1	08/21/2019 17:54	WG1331822
Lead	10.6		0.196	0.517	1	08/21/2019 17:54	WG1331822

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.66	J	0.877	2.59	25	08/22/2019 08:24	WG1332522
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*77.0-120*		*08/22/2019 08:24*	WG1332522

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0142	0.0259	1	08/21/2019 07:28	WG1332008
Acrylonitrile	U		0.00196	0.0129	1	08/21/2019 07:28	WG1332008
Benzene	0.000488	B J	0.000414	0.00103	1	08/21/2019 07:28	WG1332008
Bromobenzene	U		0.00109	0.0129	1	08/21/2019 07:28	WG1332008
Bromodichloromethane	U		0.000815	0.00259	1	08/21/2019 07:28	WG1332008
Bromoform	U		0.00618	0.0259	1	08/21/2019 07:28	WG1332008
Bromomethane	U		0.00383	0.0129	1	08/21/2019 07:28	WG1332008
n-Butylbenzene	U		0.00397	0.0129	1	08/21/2019 07:28	WG1332008
sec-Butylbenzene	U		0.00262	0.0129	1	08/21/2019 07:28	WG1332008
tert-Butylbenzene	U		0.00160	0.00517	1	08/21/2019 07:28	WG1332008
Carbon tetrachloride	U		0.00112	0.00517	1	08/21/2019 07:28	WG1332008
Chlorobenzene	U		0.000593	0.00259	1	08/21/2019 07:28	WG1332008
Chlorodibromomethane	U		0.000465	0.00259	1	08/21/2019 07:28	WG1332008
Chloroethane	U		0.00112	0.00517	1	08/21/2019 07:28	WG1332008
Chloroform	U		0.000429	0.00259	1	08/21/2019 07:28	WG1332008
Chloromethane	0.00475	J	0.00144	0.0129	1	08/21/2019 07:28	WG1332008
2-Chlorotoluene	U		0.000951	0.00259	1	08/21/2019 07:28	WG1332008
4-Chlorotoluene	U		0.00117	0.00517	1	08/21/2019 07:28	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00527	0.0259	1	08/21/2019 07:28	WG1332008
1,2-Dibromoethane	U		0.000543	0.00259	1	08/21/2019 07:28	WG1332008
Dibromomethane	U		0.00103	0.00517	1	08/21/2019 07:28	WG1332008
1,2-Dichlorobenzene	U		0.00150	0.00517	1	08/21/2019 07:28	WG1332008
1,3-Dichlorobenzene	U		0.00176	0.00517	1	08/21/2019 07:28	WG1332008
1,4-Dichlorobenzene	U		0.00204	0.00517	1	08/21/2019 07:28	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.000846	0.00259	1	08/21/2019 07:28	WG1332008
1,1-Dichloroethane	U		0.000595	0.00259	1	08/21/2019 07:28	WG1332008
1,2-Dichloroethane	U		0.000491	0.00259	1	08/21/2019 07:28	WG1332008
1,1-Dichloroethene	U		0.000517	0.00259	1	08/21/2019 07:28	WG1332008
cis-1,2-Dichloroethene	U		0.000714	0.00259	1	08/22/2019 00:15	WG1332648
trans-1,2-Dichloroethene	U		0.00148	0.00517	1	08/21/2019 07:28	WG1332008
1,2-Dichloropropane	U		0.00131	0.00517	1	08/21/2019 07:28	WG1332008
1,1-Dichloropropene	U		0.000724	0.00259	1	08/21/2019 07:28	WG1332008
1,3-Dichloropropane	U		0.00181	0.00517	1	08/21/2019 07:28	WG1332008
cis-1,3-Dichloropropene	U		0.000701	0.00259	1	08/21/2019 07:28	WG1332008
trans-1,3-Dichloropropene	U		0.00158	0.00517	1	08/21/2019 07:28	WG1332008
2,2-Dichloropropane	U		0.000820	0.00259	1	08/21/2019 07:28	WG1332008
Di-isopropyl ether	U		0.000362	0.00103	1	08/21/2019 07:28	WG1332008
Ethylbenzene	U		0.000548	0.00259	1	08/21/2019 07:28	WG1332008
Hexachloro-1,3-butadiene	U		0.0131	0.0259	1	08/21/2019 07:28	WG1332008
Isopropylbenzene	U		0.000892	0.00259	1	08/21/2019 07:28	WG1332008
p-Isopropyltoluene	U		0.00241	0.00517	1	08/21/2019 07:28	WG1332008
2-Butanone (MEK)	U		0.0129	0.0259	1	08/21/2019 07:28	WG1332008
Methylene Chloride	U		0.00687	0.0259	1	08/21/2019 07:28	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0103	0.0259	1	08/21/2019 07:28	WG1332008
Methyl tert-butyl ether	U		0.000305	0.00103	1	08/21/2019 07:28	WG1332008
Naphthalene	U		0.00323	0.0129	1	08/21/2019 07:28	WG1332008
n-Propylbenzene	U		0.00122	0.00517	1	08/21/2019 07:28	WG1332008
Styrene	U		0.00282	0.0129	1	08/21/2019 07:28	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000517	0.00259	1	08/21/2019 07:28	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000403	0.00259	1	08/21/2019 07:28	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000698	0.00259	1	08/21/2019 07:28	WG1332008
Tetrachloroethene	U		0.000724	0.00259	1	08/21/2019 07:28	WG1332008
Toluene	0.00616	B	0.00129	0.00517	1	08/21/2019 07:28	WG1332008
1,2,3-Trichlorobenzene	U		0.000646	0.00259	1	08/21/2019 07:28	WG1332008
1,2,4-Trichlorobenzene	U		0.00498	0.0129	1	08/21/2019 07:28	WG1332008
1,1,1-Trichloroethane	U		0.000284	0.00259	1	08/21/2019 07:28	WG1332008
1,1,2-Trichloroethane	U		0.000913	0.00259	1	08/21/2019 07:28	WG1332008
Trichloroethene	U		0.000414	0.00103	1	08/21/2019 07:28	WG1332008
Trichlorofluoromethane	U		0.000517	0.00259	1	08/21/2019 07:28	WG1332008
1,2,3-Trichloropropane	U		0.00527	0.0129	1	08/21/2019 07:28	WG1332008
1,2,4-Trimethylbenzene	U		0.00120	0.00517	1	08/21/2019 07:28	WG1332008
1,2,3-Trimethylbenzene	U		0.00119	0.00517	1	08/21/2019 07:28	WG1332008
Vinyl chloride	U		0.000706	0.00259	1	08/22/2019 00:15	WG1332648
1,3,5-Trimethylbenzene	U		0.00112	0.00517	1	08/21/2019 07:28	WG1332008
Xylenes, Total	U		0.00494	0.00672	1	08/21/2019 07:28	WG1332008
(S) Toluene-d8	*109*			*75.0-131*		*08/21/2019 07:28*	WG1332008
(S) Toluene-d8	*106*			*75.0-131*		*08/22/2019 00:15*	WG1332648
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*08/21/2019 07:28*	WG1332008
(S) 4-Bromofluorobenzene	*92.9*			*67.0-138*		*08/22/2019 00:15*	WG1332648
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*08/21/2019 07:28*	WG1332008
(S) 1,2-Dichloroethane-d4	*93.5*			*70.0-130*		*08/22/2019 00:15*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.38	4.14	1	08/23/2019 03:18	WG1332942
Residual Range Organics (RRO)	U		3.44	10.3	1	08/23/2019 03:18	WG1332942
(S) o-Terphenyl	*36.4*			*18.0-148*		*08/23/2019 03:18*	WG1332942

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00362	0.0176	1	08/23/2019 10:53	WG1332642
PCB 1221	U		0.00555	0.0176	1	08/23/2019 10:53	WG1332642
PCB 1232	U		0.00431	0.0176	1	08/23/2019 10:53	WG1332642
PCB 1242	U		0.00329	0.0176	1	08/23/2019 10:53	WG1332642
PCB 1248	U		0.00326	0.0176	1	08/23/2019 10:53	WG1332642
PCB 1254	U		0.00488	0.0176	1	08/23/2019 10:53	WG1332642
PCB 1260	U		0.00511	0.0176	1	08/23/2019 10:53	WG1332642
PCB 1268	U		0.00188	0.0176	1	08/23/2019 10:53	WG1332642
(S) Decachlorobiphenyl	*113*			*10.0-135*		*08/23/2019 10:53*	WG1332642
(S) Tetrachloro-m-xylene	*95.0*			*10.0-139*		*08/23/2019 10:53*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00664	0.0344	1	08/23/2019 00:28	WG1332873
Acenaphthylene	U		0.00694	0.0344	1	08/23/2019 00:28	WG1332873
Anthracene	U		0.00654	0.0344	1	08/23/2019 00:28	WG1332873
Benzo(a)anthracene	U		0.00443	0.0344	1	08/23/2019 00:28	WG1332873
Benzo(b)fluoranthene	U		0.00719	0.0344	1	08/23/2019 00:28	WG1332873
Benzo(k)fluoranthene	U		0.00602	0.0344	1	08/23/2019 00:28	WG1332873
Benzo(g,h,i)perylene	U		0.00746	0.0344	1	08/23/2019 00:28	WG1332873
Benzo(a)pyrene	U		0.00567	0.0344	1	08/23/2019 00:28	WG1332873
Bis(2-chlorethoxy)methane	U		0.00796	0.344	1	08/23/2019 00:28	WG1332873
Bis(2-chloroethyl)ether	U		0.00927	0.344	1	08/23/2019 00:28	WG1332873
Bis(2-chloroisopropyl)ether	U		0.00786	0.344	1	08/23/2019 00:28	WG1332873
4-Bromophenyl-phenylether	U		0.0118	0.344	1	08/23/2019 00:28	WG1332873
2-Chloronaphthalene	U		0.00661	0.0344	1	08/23/2019 00:28	WG1332873
4-Chlorophenyl-phenylether	U		0.00648	0.344	1	08/23/2019 00:28	WG1332873
Chrysene	U		0.00574	0.0344	1	08/23/2019 00:28	WG1332873
Dibenz(a,h)anthracene	U		0.00849	0.0344	1	08/23/2019 00:28	WG1332873
3,3-Dichlorobenzidine	U		0.0821	0.344	1	08/23/2019 00:28	WG1332873
2,4-Dinitrotoluene	U		0.00628	0.344	1	08/23/2019 00:28	WG1332873
2,6-Dinitrotoluene	U		0.00762	0.344	1	08/23/2019 00:28	WG1332873
Fluoranthene	U		0.00513	0.0344	1	08/23/2019 00:28	WG1332873
Fluorene	U		0.00705	0.0344	1	08/23/2019 00:28	WG1332873
Hexachlorobenzene	U		0.00885	0.344	1	08/23/2019 00:28	WG1332873
Hexachloro-1,3-butadiene	U		0.0103	0.344	1	08/23/2019 00:28	WG1332873
Hexachlorocyclopentadiene	U		0.0607	0.344	1	08/23/2019 00:28	WG1332873
Hexachloroethane	U		0.0139	0.344	1	08/23/2019 00:28	WG1332873
Indeno(1,2,3-cd)pyrene	U		0.00798	0.0344	1	08/23/2019 00:28	WG1332873
Isophorone	U		0.00540	0.344	1	08/23/2019 00:28	WG1332873
Naphthalene	U		0.00919	0.0344	1	08/23/2019 00:28	WG1332873
Nitrobenzene	U		0.00719	0.344	1	08/23/2019 00:28	WG1332873
n-Nitrosodimethylamine	U		0.0669	0.344	1	08/23/2019 00:28	WG1332873
n-Nitrosodiphenylamine	U		0.0931	0.344	1	08/23/2019 00:28	WG1332873
n-Nitrosodi-n-propylamine	U		0.00937	0.344	1	08/23/2019 00:28	WG1332873
Phenanthrene	U		0.00546	0.0344	1	08/23/2019 00:28	WG1332873
Pyridine	U		0.0649	0.344	1	08/23/2019 00:28	WG1332873
Benzylbutyl phthalate	U		0.0107	0.344	1	08/23/2019 00:28	WG1332873
Bis(2-ethylhexyl)phthalate	U		0.0124	0.344	1	08/23/2019 00:28	WG1332873
Di-n-butyl phthalate	U		0.0113	0.344	1	08/23/2019 00:28	WG1332873
Diethyl phthalate	U		0.00715	0.344	1	08/23/2019 00:28	WG1332873
Dimethyl phthalate	U		0.00558	0.344	1	08/23/2019 00:28	WG1332873
Di-n-octyl phthalate	U		0.00938	0.344	1	08/23/2019 00:28	WG1332873
Pyrene	U		0.0127	0.0344	1	08/23/2019 00:28	WG1332873
1,2,4-Trichlorobenzene	U		0.00906	0.344	1	08/23/2019 00:28	WG1332873

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chloro-3-methylphenol	U		0.00493	0.344	1	08/23/2019 00:28	WG1332873
2-Chlorophenol	U		0.00859	0.344	1	08/23/2019 00:28	WG1332873
2,4-Dichlorophenol	U		0.00771	0.344	1	08/23/2019 00:28	WG1332873
2,4-Dimethylphenol	U		0.0487	0.344	1	08/23/2019 00:28	WG1332873
4,6-Dinitro-2-methylphenol	U		0.128	0.344	1	08/23/2019 00:28	WG1332873
2,4-Dinitrophenol	U		0.101	0.344	1	08/23/2019 00:28	WG1332873
2-Methylphenol	U		0.0102	0.344	1	08/23/2019 00:28	WG1332873
3&4-Methyl Phenol	U		0.00810	0.344	1	08/23/2019 00:28	WG1332873
2-Nitrophenol	U		0.0134	0.344	1	08/23/2019 00:28	WG1332873
4-Nitrophenol	U		0.0543	0.344	1	08/23/2019 00:28	WG1332873
Pentachlorophenol	U		0.0496	0.344	1	08/23/2019 00:28	WG1332873
Phenol	U		0.00719	0.344	1	08/23/2019 00:28	WG1332873
2,4,6-Trichlorophenol	U		0.00806	0.344	1	08/23/2019 00:28	WG1332873
2,4,5-Trichlorophenol	U		0.0108	0.344	1	08/23/2019 00:28	WG1332873
(S) 2-Fluorophenol	*59.4*			*12.0-120*		*08/23/2019 00:28*	WG1332873
(S) Phenol-d5	*52.5*			*10.0-120*		*08/23/2019 00:28*	WG1332873
(S) Nitrobenzene-d5	*55.2*			*10.0-122*		*08/23/2019 00:28*	WG1332873
(S) 2-Fluorobiphenyl	*55.6*			*15.0-120*		*08/23/2019 00:28*	WG1332873
(S) 2,4,6-Tribromophenol	*59.9*			*10.0-127*		*08/23/2019 00:28*	WG1332873
(S) p-Terphenyl-d14	*55.9*			*10.0-120*		*08/23/2019 00:28*	WG1332873

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Acenaphthene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Acenaphthylene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Benzo(a)anthracene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Benzo(a)pyrene	0.000694	J	0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Benzo(b)fluoranthene	0.000771	J	0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Benzo(g,h,i)perylene	0.00125	J	0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Benzo(k)fluoranthene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Chrysene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Dibenz(a,h)anthracene	0.000623	J	0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Fluoranthene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Fluorene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Indeno(1,2,3-cd)pyrene	0.000673	J	0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Naphthalene	U		0.00207	0.0207	1	08/22/2019 16:18	WG1332890
Phenanthrene	U		0.000620	0.00620	1	08/22/2019 16:18	WG1332890
Pyrene	0.000639	J	0.000620	0.00620	1	08/22/2019 16:18	WG1332890
1-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 16:18	WG1332890
2-Methylnaphthalene	U		0.00207	0.0207	1	08/22/2019 16:18	WG1332890
2-Chloronaphthalene	U		0.00207	0.0207	1	08/22/2019 16:18	WG1332890
(S) Nitrobenzene-d5	*124*			*14.0-149*		*08/22/2019 16:18*	WG1332890
(S) 2-Fluorobiphenyl	*99.0*			*34.0-125*		*08/22/2019 16:18*	WG1332890
(S) p-Terphenyl-d14	*112*			*23.0-120*		*08/22/2019 16:18*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0403	0.258	1	08/23/2019 12:46	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	3.01		0.269	1.03	1	08/22/2019 00:18	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.05		0.475	2.06	1	08/21/2019 17:57	WG1331822
Cadmium	U		0.0723	0.516	1	08/21/2019 17:57	WG1331822
Chromium	10.7		0.145	1.03	1	08/21/2019 17:57	WG1331822
Lead	5.03		0.196	0.516	1	08/21/2019 17:57	WG1331822

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		1.23	3.61	35	08/22/2019 22:42	WG1332707
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*08/22/2019 22:42*	WG1332707

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0836		0.0198	0.0361	1.4	08/21/2019 07:49	WG1332008
Acrylonitrile	U		0.00275	0.0181	1.4	08/21/2019 07:49	WG1332008
Benzene	0.00104	B J	0.000578	0.00145	1.4	08/21/2019 07:49	WG1332008
Bromobenzene	U		0.00152	0.0181	1.4	08/21/2019 07:49	WG1332008
Bromodichloromethane	U		0.00114	0.00361	1.4	08/21/2019 07:49	WG1332008
Bromoform	U		0.00864	0.0361	1.4	08/21/2019 07:49	WG1332008
Bromomethane	U		0.00535	0.0181	1.4	08/21/2019 07:49	WG1332008
n-Butylbenzene	U		0.00555	0.0181	1.4	08/21/2019 07:49	WG1332008
sec-Butylbenzene	U		0.00365	0.0181	1.4	08/21/2019 07:49	WG1332008
tert-Butylbenzene	U		0.00224	0.00723	1.4	08/21/2019 07:49	WG1332008
Carbon tetrachloride	U		0.00156	0.00723	1.4	08/21/2019 07:49	WG1332008
Chlorobenzene	U		0.000828	0.00361	1.4	08/21/2019 07:49	WG1332008
Chlorodibromomethane	U		0.000650	0.00361	1.4	08/21/2019 07:49	WG1332008
Chloroethane	U		0.00156	0.00723	1.4	08/21/2019 07:49	WG1332008
Chloroform	0.00210	J	0.000600	0.00361	1.4	08/21/2019 07:49	WG1332008
Chloromethane	0.00421	J	0.00201	0.0181	1.4	08/21/2019 07:49	WG1332008
2-Chlorotoluene	U		0.00133	0.00361	1.4	08/21/2019 07:49	WG1332008
4-Chlorotoluene	U		0.00163	0.00723	1.4	08/21/2019 07:49	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00737	0.0361	1.4	08/21/2019 07:49	WG1332008
1,2-Dibromoethane	U		0.000759	0.00361	1.4	08/21/2019 07:49	WG1332008
Dibromomethane	U		0.00145	0.00723	1.4	08/21/2019 07:49	WG1332008
1,2-Dichlorobenzene	U		0.00210	0.00723	1.4	08/21/2019 07:49	WG1332008
1,3-Dichlorobenzene	U		0.00246	0.00723	1.4	08/21/2019 07:49	WG1332008
1,4-Dichlorobenzene	U		0.00285	0.00723	1.4	08/21/2019 07:49	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.00118	0.00361	1.4	08/21/2019 07:49	WG1332008
1,1-Dichloroethane	U		0.000831	0.00361	1.4	08/21/2019 07:49	WG1332008
1,2-Dichloroethane	U		0.000687	0.00361	1.4	08/21/2019 07:49	WG1332008
1,1-Dichloroethene	U		0.000723	0.00361	1.4	08/21/2019 07:49	WG1332008
cis-1,2-Dichloroethene	U		0.000997	0.00361	1.4	08/21/2019 23:57	WG1332648
trans-1,2-Dichloroethene	U		0.00206	0.00723	1.4	08/21/2019 07:49	WG1332008
1,2-Dichloropropane	U		0.00184	0.00723	1.4	08/21/2019 07:49	WG1332008
1,1-Dichloropropene	U		0.00101	0.00361	1.4	08/21/2019 07:49	WG1332008
1,3-Dichloropropane	U		0.00253	0.00723	1.4	08/21/2019 07:49	WG1332008
cis-1,3-Dichloropropene	U		0.000980	0.00361	1.4	08/21/2019 07:49	WG1332008
trans-1,3-Dichloropropene	U		0.00221	0.00723	1.4	08/21/2019 07:49	WG1332008
2,2-Dichloropropane	U		0.00115	0.00361	1.4	08/21/2019 07:49	WG1332008
Di-isopropyl ether	U		0.000506	0.00145	1.4	08/21/2019 07:49	WG1332008
Ethylbenzene	0.00130	J	0.000766	0.00361	1.4	08/21/2019 07:49	WG1332008
Hexachloro-1,3-butadiene	U		0.0184	0.0361	1.4	08/21/2019 07:49	WG1332008
Isopropylbenzene	U		0.00125	0.00361	1.4	08/21/2019 07:49	WG1332008
p-Isopropyltoluene	U		0.00337	0.00723	1.4	08/21/2019 07:49	WG1332008
2-Butanone (MEK)	0.0803	B J0	0.0181	0.0361	1.4	08/21/2019 07:49	WG1332008
Methylene Chloride	U		0.00960	0.0361	1.4	08/21/2019 07:49	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0145	0.0361	1.4	08/21/2019 07:49	WG1332008
Methyl tert-butyl ether	U		0.000426	0.00145	1.4	08/21/2019 07:49	WG1332008
Naphthalene	U		0.00451	0.0181	1.4	08/21/2019 07:49	WG1332008
n-Propylbenzene	U		0.00170	0.00723	1.4	08/21/2019 07:49	WG1332008
Styrene	U		0.00394	0.0181	1.4	08/21/2019 07:49	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000723	0.00361	1.4	08/21/2019 07:49	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000564	0.00361	1.4	08/21/2019 07:49	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000976	0.00361	1.4	08/21/2019 07:49	WG1332008
Tetrachloroethene	U		0.00101	0.00361	1.4	08/21/2019 07:49	WG1332008
Toluene	0.0157	B	0.00181	0.00723	1.4	08/21/2019 07:49	WG1332008
1,2,3-Trichlorobenzene	U		0.000903	0.00361	1.4	08/21/2019 07:49	WG1332008
1,2,4-Trichlorobenzene	U		0.00697	0.0181	1.4	08/21/2019 07:49	WG1332008
1,1,1-Trichloroethane	U		0.000397	0.00361	1.4	08/21/2019 07:49	WG1332008
1,1,2-Trichloroethane	U		0.00128	0.00361	1.4	08/21/2019 07:49	WG1332008
Trichloroethene	U		0.000578	0.00145	1.4	08/21/2019 07:49	WG1332008
Trichlorofluoromethane	U		0.000723	0.00361	1.4	08/21/2019 07:49	WG1332008
1,2,3-Trichloropropane	U		0.00737	0.0181	1.4	08/21/2019 07:49	WG1332008
1,2,4-Trimethylbenzene	U		0.00167	0.00723	1.4	08/21/2019 07:49	WG1332008
1,2,3-Trimethylbenzene	U		0.00166	0.00723	1.4	08/21/2019 07:49	WG1332008
Vinyl chloride	U		0.000987	0.00361	1.4	08/21/2019 23:57	WG1332648
1,3,5-Trimethylbenzene	U		0.00156	0.00723	1.4	08/21/2019 07:49	WG1332008
Xylenes, Total	U		0.00691	0.00940	1.4	08/21/2019 07:49	WG1332008
(S) Toluene-d8	*104*			*75.0-131*		*08/21/2019 07:49*	WG1332008
(S) Toluene-d8	*105*			*75.0-131*		*08/21/2019 23:57*	WG1332648
(S) 4-Bromofluorobenzene	*95.0*			*67.0-138*		*08/21/2019 07:49*	WG1332008
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*08/21/2019 23:57*	WG1332648
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*08/21/2019 07:49*	WG1332008
(S) 1,2-Dichloroethane-d4	*91.0*			*70.0-130*		*08/21/2019 23:57*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.37	4.13	1	08/23/2019 03:32	WG1332942
Residual Range Organics (RRO)	U		3.44	10.3	1	08/23/2019 03:32	WG1332942
(S) o-Terphenyl	*80.6*			*18.0-148*		*08/23/2019 03:32*	WG1332942

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00361	0.0176	1	08/23/2019 11:07	WG1332642
PCB 1221	U		0.00554	0.0176	1	08/23/2019 11:07	WG1332642
PCB 1232	U		0.00431	0.0176	1	08/23/2019 11:07	WG1332642
PCB 1242	U		0.00328	0.0176	1	08/23/2019 11:07	WG1332642
PCB 1248	U		0.00325	0.0176	1	08/23/2019 11:07	WG1332642
PCB 1254	U		0.00487	0.0176	1	08/23/2019 11:07	WG1332642
PCB 1260	U		0.00510	0.0176	1	08/23/2019 11:07	WG1332642
PCB 1268	U		0.00188	0.0176	1	08/23/2019 11:07	WG1332642
(S) Decachlorobiphenyl	*79.3*			*10.0-135*		*08/23/2019 11:07*	WG1332642
(S) Tetrachloro-m-xylene	*80.7*			*10.0-139*		*08/23/2019 11:07*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00663	0.0344	1	08/23/2019 03:33	WG1333354
Acenaphthylene	U		0.00693	0.0344	1	08/23/2019 03:33	WG1333354
Anthracene	U		0.00652	0.0344	1	08/23/2019 03:33	WG1333354
Benzo(a)anthracene	U		0.00442	0.0344	1	08/23/2019 03:33	WG1333354
Benzo(b)fluoranthene	U		0.00718	0.0344	1	08/23/2019 03:33	WG1333354
Benzo(k)fluoranthene	U		0.00601	0.0344	1	08/23/2019 03:33	WG1333354
Benzo(g,h,i)perylene	U		0.00744	0.0344	1	08/23/2019 03:33	WG1333354
Benzo(a)pyrene	U		0.00566	0.0344	1	08/23/2019 03:33	WG1333354
Bis(2-chlorethoxy)methane	U		0.00795	0.344	1	08/23/2019 03:33	WG1333354
Bis(2-chloroethyl)ether	U		0.00925	0.344	1	08/23/2019 03:33	WG1333354
Bis(2-chloroisopropyl)ether	U		0.00785	0.344	1	08/23/2019 03:33	WG1333354
4-Bromophenyl-phenylether	U		0.0118	0.344	1	08/23/2019 03:33	WG1333354
2-Chloronaphthalene	U		0.00660	0.0344	1	08/23/2019 03:33	WG1333354
4-Chlorophenyl-phenylether	U		0.00647	0.344	1	08/23/2019 03:33	WG1333354
Chrysene	U		0.00573	0.0344	1	08/23/2019 03:33	WG1333354
Dibenz(a,h)anthracene	U		0.00848	0.0344	1	08/23/2019 03:33	WG1333354
3,3-Dichlorobenzidine	U		0.0820	0.344	1	08/23/2019 03:33	WG1333354
2,4-Dinitrotoluene	U		0.00627	0.344	1	08/23/2019 03:33	WG1333354
2,6-Dinitrotoluene	U		0.00761	0.344	1	08/23/2019 03:33	WG1333354
Fluoranthene	U		0.00512	0.0344	1	08/23/2019 03:33	WG1333354
Fluorene	U		0.00704	0.0344	1	08/23/2019 03:33	WG1333354
Hexachlorobenzene	U		0.00884	0.344	1	08/23/2019 03:33	WG1333354
Hexachloro-1,3-butadiene	U		0.0103	0.344	1	08/23/2019 03:33	WG1333354
Hexachlorocyclopentadiene	U		0.0606	0.344	1	08/23/2019 03:33	WG1333354
Hexachloroethane	U		0.0138	0.344	1	08/23/2019 03:33	WG1333354
Indeno(1,2,3-cd)pyrene	U		0.00797	0.0344	1	08/23/2019 03:33	WG1333354
Isophorone	U		0.00539	0.344	1	08/23/2019 03:33	WG1333354
Naphthalene	U		0.00918	0.0344	1	08/23/2019 03:33	WG1333354
Nitrobenzene	U		0.00718	0.344	1	08/23/2019 03:33	WG1333354
n-Nitrosodimethylamine	U		0.0668	0.344	1	08/23/2019 03:33	WG1333354
n-Nitrosodiphenylamine	U		0.0929	0.344	1	08/23/2019 03:33	WG1333354
n-Nitrosodi-n-propylamine	U		0.00935	0.344	1	08/23/2019 03:33	WG1333354
Phenanthrene	U		0.00545	0.0344	1	08/23/2019 03:33	WG1333354
Pyridine	U		0.0648	0.344	1	08/23/2019 03:33	WG1333354
Benzylbutyl phthalate	U		0.0106	0.344	1	08/23/2019 03:33	WG1333354
Bis(2-ethylhexyl)phthalate	U		0.0124	0.344	1	08/23/2019 03:33	WG1333354
Di-n-butyl phthalate	U		0.0113	0.344	1	08/23/2019 03:33	WG1333354
Diethyl phthalate	U		0.00713	0.344	1	08/23/2019 03:33	WG1333354
Dimethyl phthalate	0.0295	B J	0.00558	0.344	1	08/23/2019 03:33	WG1333354
Di-n-octyl phthalate	U		0.00936	0.344	1	08/23/2019 03:33	WG1333354
Pyrene	U		0.0127	0.0344	1	08/23/2019 03:33	WG1333354
1,2,4-Trichlorobenzene	U		0.00904	0.344	1	08/23/2019 03:33	WG1333354

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chloro-3-methylphenol	U		0.00492	0.344	1	08/23/2019 03:33	WG1333354
2-Chlorophenol	U		0.00858	0.344	1	08/23/2019 03:33	WG1333354
2,4-Dichlorophenol	U		0.00770	0.344	1	08/23/2019 03:33	WG1333354
2,4-Dimethylphenol	U		0.0486	0.344	1	08/23/2019 03:33	WG1333354
4,6-Dinitro-2-methylphenol	U		0.128	0.344	1	08/23/2019 03:33	WG1333354
2,4-Dinitrophenol	U		0.101	0.344	1	08/23/2019 03:33	WG1333354
2-Methylphenol	U		0.0102	0.344	1	08/23/2019 03:33	WG1333354
3&4-Methyl Phenol	U		0.00808	0.344	1	08/23/2019 03:33	WG1333354
2-Nitrophenol	U		0.0134	0.344	1	08/23/2019 03:33	WG1333354
4-Nitrophenol	U		0.0542	0.344	1	08/23/2019 03:33	WG1333354
Pentachlorophenol	U		0.0496	0.344	1	08/23/2019 03:33	WG1333354
Phenol	U		0.00718	0.344	1	08/23/2019 03:33	WG1333354
2,4,6-Trichlorophenol	U		0.00804	0.344	1	08/23/2019 03:33	WG1333354
2,4,5-Trichlorophenol	U		0.0107	0.344	1	08/23/2019 03:33	WG1333354
(S) 2-Fluorophenol	*76.2*			*12.0-120*		*08/23/2019 03:33*	WG1333354
(S) Phenol-d5	*70.0*			*10.0-120*		*08/23/2019 03:33*	WG1333354
(S) Nitrobenzene-d5	*69.3*			*10.0-122*		*08/23/2019 03:33*	WG1333354
(S) 2-Fluorobiphenyl	*70.2*			*15.0-120*		*08/23/2019 03:33*	WG1333354
(S) 2,4,6-Tribromophenol	*81.5*			*10.0-127*		*08/23/2019 03:33*	WG1333354
(S) p-Terphenyl-d14	*75.8*			*10.0-120*		*08/23/2019 03:33*	WG1333354

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Acenaphthene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Acenaphthylene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Benzo(a)anthracene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Benzo(a)pyrene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Benzo(b)fluoranthene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Benzo(g,h,i)perylene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Benzo(k)fluoranthene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Chrysene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Dibenz(a,h)anthracene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Fluoranthene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Fluorene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Indeno(1,2,3-cd)pyrene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Naphthalene	U		0.00206	0.0206	1	08/22/2019 16:38	WG1332890
Phenanthrene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
Pyrene	U		0.000619	0.00619	1	08/22/2019 16:38	WG1332890
1-Methylnaphthalene	U		0.00206	0.0206	1	08/22/2019 16:38	WG1332890
2-Methylnaphthalene	U		0.00206	0.0206	1	08/22/2019 16:38	WG1332890
2-Chloronaphthalene	U		0.00206	0.0206	1	08/22/2019 16:38	WG1332890
(S) Nitrobenzene-d5	*116*			*14.0-149*		*08/22/2019 16:38*	WG1332890
(S) 2-Fluorobiphenyl	*94.2*			*34.0-125*		*08/22/2019 16:38*	WG1332890
(S) p-Terphenyl-d14	*110*			*23.0-120*		*08/22/2019 16:38*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.5		1	08/22/2019 20:33	WG1332928

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0408	0.262	1	08/23/2019 12:47	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	198		14.2	54.4	52	08/22/2019 00:56	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.0		0.482	2.09	1	08/21/2019 17:59	WG1331822
Cadmium	U		0.0733	0.523	1	08/21/2019 17:59	WG1331822
Chromium	7.58		0.147	1.05	1	08/21/2019 17:59	WG1331822
Lead	5.66		0.199	0.523	1	08/21/2019 17:59	WG1331822

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1.11	J	1.08	3.19	30.5	08/22/2019 23:06	WG1332707
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*08/22/2019 23:06*	WG1332707

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0604		0.0175	0.0319	1.22	08/21/2019 08:11	WG1332008
Acrylonitrile	U		0.00243	0.0160	1.22	08/21/2019 08:11	WG1332008
Benzene	0.000845	B J	0.000511	0.00128	1.22	08/21/2019 08:11	WG1332008
Bromobenzene	U		0.00134	0.0160	1.22	08/21/2019 08:11	WG1332008
Bromodichloromethane	U		0.00101	0.00319	1.22	08/21/2019 08:11	WG1332008
Bromoform	U		0.00764	0.0319	1.22	08/21/2019 08:11	WG1332008
Bromomethane	U		0.00472	0.0160	1.22	08/21/2019 08:11	WG1332008
n-Butylbenzene	U		0.00490	0.0160	1.22	08/21/2019 08:11	WG1332008
sec-Butylbenzene	U		0.00323	0.0160	1.22	08/21/2019 08:11	WG1332008
tert-Butylbenzene	U		0.00198	0.00639	1.22	08/21/2019 08:11	WG1332008
Carbon tetrachloride	U		0.00138	0.00639	1.22	08/21/2019 08:11	WG1332008
Chlorobenzene	U		0.000732	0.00319	1.22	08/21/2019 08:11	WG1332008
Chlorodibromomethane	U		0.000575	0.00319	1.22	08/21/2019 08:11	WG1332008
Chloroethane	U		0.00138	0.00639	1.22	08/21/2019 08:11	WG1332008
Chloroform	0.00126	J	0.000530	0.00319	1.22	08/21/2019 08:11	WG1332008
Chloromethane	0.00412	J	0.00178	0.0160	1.22	08/21/2019 08:11	WG1332008
2-Chlorotoluene	U		0.00117	0.00319	1.22	08/21/2019 08:11	WG1332008
4-Chlorotoluene	U		0.00144	0.00639	1.22	08/21/2019 08:11	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00651	0.0319	1.22	08/21/2019 08:11	WG1332008
1,2-Dibromoethane	U		0.000670	0.00319	1.22	08/21/2019 08:11	WG1332008
Dibromomethane	U		0.00128	0.00639	1.22	08/21/2019 08:11	WG1332008
1,2-Dichlorobenzene	U		0.00185	0.00639	1.22	08/21/2019 08:11	WG1332008
1,3-Dichlorobenzene	U		0.00217	0.00639	1.22	08/21/2019 08:11	WG1332008
1,4-Dichlorobenzene	U		0.00251	0.00639	1.22	08/21/2019 08:11	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.00104	0.00319	1.22	08/21/2019 08:11	WG1332008
1,1-Dichloroethane	U		0.000735	0.00319	1.22	08/21/2019 08:11	WG1332008
1,2-Dichloroethane	U		0.000607	0.00319	1.22	08/21/2019 08:11	WG1332008
1,1-Dichloroethene	U		0.000639	0.00319	1.22	08/21/2019 08:11	WG1332008
cis-1,2-Dichloroethene	U		0.000881	0.00319	1.22	08/21/2019 23:38	WG1332648
trans-1,2-Dichloroethene	U		0.00182	0.00639	1.22	08/21/2019 08:11	WG1332008
1,2-Dichloropropane	U		0.00162	0.00639	1.22	08/21/2019 08:11	WG1332008
1,1-Dichloropropene	U		0.000894	0.00319	1.22	08/21/2019 08:11	WG1332008
1,3-Dichloropropane	U		0.00224	0.00639	1.22	08/21/2019 08:11	WG1332008
cis-1,3-Dichloropropene	U		0.000866	0.00319	1.22	08/21/2019 08:11	WG1332008
trans-1,3-Dichloropropene	U		0.00196	0.00639	1.22	08/21/2019 08:11	WG1332008
2,2-Dichloropropane	U		0.00101	0.00319	1.22	08/21/2019 08:11	WG1332008
Di-isopropyl ether	U		0.000447	0.00128	1.22	08/21/2019 08:11	WG1332008
Ethylbenzene	0.000754	J	0.000677	0.00319	1.22	08/21/2019 08:11	WG1332008
Hexachloro-1,3-butadiene	U		0.0162	0.0319	1.22	08/21/2019 08:11	WG1332008
Isopropylbenzene	U		0.00110	0.00319	1.22	08/21/2019 08:11	WG1332008
p-Isopropyltoluene	U		0.00297	0.00639	1.22	08/21/2019 08:11	WG1332008
2-Butanone (MEK)	0.0625	B J0	0.0159	0.0319	1.22	08/21/2019 08:11	WG1332008
Methylene Chloride	U		0.00848	0.0319	1.22	08/21/2019 08:11	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0128	0.0319	1.22	08/21/2019 08:11	WG1332008
Methyl tert-butyl ether	U		0.000377	0.00128	1.22	08/21/2019 08:11	WG1332008
Naphthalene	U		0.00399	0.0160	1.22	08/21/2019 08:11	WG1332008
n-Propylbenzene	U		0.00151	0.00639	1.22	08/21/2019 08:11	WG1332008
Styrene	U		0.00349	0.0160	1.22	08/21/2019 08:11	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000639	0.00319	1.22	08/21/2019 08:11	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000498	0.00319	1.22	08/21/2019 08:11	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.000863	0.00319	1.22	08/21/2019 08:11	WG1332008
Tetrachloroethene	U		0.000894	0.00319	1.22	08/21/2019 08:11	WG1332008
Toluene	0.0117	B	0.00159	0.00639	1.22	08/21/2019 08:11	WG1332008
1,2,3-Trichlorobenzene	U		0.000798	0.00319	1.22	08/21/2019 08:11	WG1332008
1,2,4-Trichlorobenzene	U		0.00616	0.0160	1.22	08/21/2019 08:11	WG1332008
1,1,1-Trichloroethane	U		0.000352	0.00319	1.22	08/21/2019 08:11	WG1332008
1,1,2-Trichloroethane	U		0.00113	0.00319	1.22	08/21/2019 08:11	WG1332008
Trichloroethene	U		0.000511	0.00128	1.22	08/21/2019 08:11	WG1332008
Trichlorofluoromethane	U		0.000639	0.00319	1.22	08/21/2019 08:11	WG1332008
1,2,3-Trichloropropane	U		0.00651	0.0160	1.22	08/21/2019 08:11	WG1332008
1,2,4-Trimethylbenzene	U		0.00149	0.00639	1.22	08/21/2019 08:11	WG1332008
1,2,3-Trimethylbenzene	U		0.00147	0.00639	1.22	08/21/2019 08:11	WG1332008
Vinyl chloride	U		0.000872	0.00319	1.22	08/21/2019 23:38	WG1332648
1,3,5-Trimethylbenzene	U		0.00138	0.00639	1.22	08/21/2019 08:11	WG1332008
Xylenes, Total	U		0.00610	0.00830	1.22	08/21/2019 08:11	WG1332008
(S) Toluene-d8	*102*			*75.0-131*		*08/21/2019 08:11*	WG1332008
(S) Toluene-d8	*105*			*75.0-131*		*08/21/2019 23:38*	WG1332648
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*		*08/21/2019 08:11*	WG1332008
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*08/21/2019 23:38*	WG1332648
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*08/21/2019 08:11*	WG1332008
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*08/21/2019 23:38*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.39	4.19	1	08/23/2019 03:45	WG1332942
Residual Range Organics (RRO)	U		3.49	10.5	1	08/23/2019 03:45	WG1332942
(S) o-Terphenyl	*82.4*			*18.0-148*		*08/23/2019 03:45*	WG1332942

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00366	0.0178	1	08/23/2019 11:21	WG1332642
PCB 1221	U		0.00562	0.0178	1	08/23/2019 11:21	WG1332642
PCB 1232	U		0.00437	0.0178	1	08/23/2019 11:21	WG1332642
PCB 1242	U		0.00333	0.0178	1	08/23/2019 11:21	WG1332642
PCB 1248	U		0.00330	0.0178	1	08/23/2019 11:21	WG1332642
PCB 1254	U		0.00494	0.0178	1	08/23/2019 11:21	WG1332642
PCB 1260	U		0.00517	0.0178	1	08/23/2019 11:21	WG1332642
PCB 1268	U		0.00191	0.0178	1	08/23/2019 11:21	WG1332642
(S) Decachlorobiphenyl	*123*			*10.0-135*		*08/23/2019 11:21*	WG1332642
(S) Tetrachloro-m-xylene	*102*			*10.0-139*		*08/23/2019 11:21*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00672	0.0349	1	08/23/2019 03:55	WG1333354
Acenaphthylene	U		0.00702	0.0349	1	08/23/2019 03:55	WG1333354
Anthracene	U		0.00662	0.0349	1	08/23/2019 03:55	WG1333354
Benzo(a)anthracene	U		0.00448	0.0349	1	08/23/2019 03:55	WG1333354
Benzo(b)fluoranthene	U		0.00728	0.0349	1	08/23/2019 03:55	WG1333354
Benzo(k)fluoranthene	U		0.00609	0.0349	1	08/23/2019 03:55	WG1333354
Benzo(g,h,i)perylene	U		0.00755	0.0349	1	08/23/2019 03:55	WG1333354
Benzo(a)pyrene	U		0.00574	0.0349	1	08/23/2019 03:55	WG1333354
Bis(2-chlorethoxy)methane	U		0.00806	0.349	1	08/23/2019 03:55	WG1333354
Bis(2-chloroethyl)ether	U		0.00938	0.349	1	08/23/2019 03:55	WG1333354
Bis(2-chloroisopropyl)ether	U		0.00796	0.349	1	08/23/2019 03:55	WG1333354
4-Bromophenyl-phenylether	U		0.0119	0.349	1	08/23/2019 03:55	WG1333354
2-Chloronaphthalene	U		0.00669	0.0349	1	08/23/2019 03:55	WG1333354
4-Chlorophenyl-phenylether	U		0.00656	0.349	1	08/23/2019 03:55	WG1333354
Chrysene	U		0.00581	0.0349	1	08/23/2019 03:55	WG1333354
Dibenz(a,h)anthracene	U		0.00859	0.0349	1	08/23/2019 03:55	WG1333354
3,3-Dichlorobenzidine	U		0.0831	0.349	1	08/23/2019 03:55	WG1333354
2,4-Dinitrotoluene	U		0.00635	0.349	1	08/23/2019 03:55	WG1333354
2,6-Dinitrotoluene	U		0.00771	0.349	1	08/23/2019 03:55	WG1333354
Fluoranthene	U		0.00519	0.0349	1	08/23/2019 03:55	WG1333354
Fluorene	U		0.00714	0.0349	1	08/23/2019 03:55	WG1333354
Hexachlorobenzene	U		0.00896	0.349	1	08/23/2019 03:55	WG1333354
Hexachloro-1,3-butadiene	U		0.0105	0.349	1	08/23/2019 03:55	WG1333354
Hexachlorocyclopentadiene	U		0.0614	0.349	1	08/23/2019 03:55	WG1333354
Hexachloroethane	U		0.0140	0.349	1	08/23/2019 03:55	WG1333354
Indeno(1,2,3-cd)pyrene	U		0.00808	0.0349	1	08/23/2019 03:55	WG1333354
Isophorone	U		0.00546	0.349	1	08/23/2019 03:55	WG1333354
Naphthalene	U		0.00931	0.0349	1	08/23/2019 03:55	WG1333354
Nitrobenzene	U		0.00728	0.349	1	08/23/2019 03:55	WG1333354
n-Nitrosodimethylamine	U		0.0677	0.349	1	08/23/2019 03:55	WG1333354
n-Nitrosodiphenylamine	U		0.0942	0.349	1	08/23/2019 03:55	WG1333354
n-Nitrosodi-n-propylamine	U		0.00948	0.349	1	08/23/2019 03:55	WG1333354
Phenanthrene	U		0.00553	0.0349	1	08/23/2019 03:55	WG1333354
Pyridine	U		0.0657	0.349	1	08/23/2019 03:55	WG1333354
Benzylbutyl phthalate	U		0.0108	0.349	1	08/23/2019 03:55	WG1333354
Bis(2-ethylhexyl)phthalate	U		0.0126	0.349	1	08/23/2019 03:55	WG1333354
Di-n-butyl phthalate	U		0.0114	0.349	1	08/23/2019 03:55	WG1333354
Diethyl phthalate	U		0.00723	0.349	1	08/23/2019 03:55	WG1333354
Dimethyl phthalate	0.0230	B J	0.00565	0.349	1	08/23/2019 03:55	WG1333354
Di-n-octyl phthalate	U		0.00949	0.349	1	08/23/2019 03:55	WG1333354
Pyrene	U		0.0129	0.0349	1	08/23/2019 03:55	WG1333354
1,2,4-Trichlorobenzene	U		0.00917	0.349	1	08/23/2019 03:55	WG1333354

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chloro-3-methylphenol	U		0.00499	0.349	1	08/23/2019 03:55	WG1333354
2-Chlorophenol	U		0.00870	0.349	1	08/23/2019 03:55	WG1333354
2,4-Dichlorophenol	U		0.00781	0.349	1	08/23/2019 03:55	WG1333354
2,4-Dimethylphenol	U		0.0493	0.349	1	08/23/2019 03:55	WG1333354
4,6-Dinitro-2-methylphenol	U		0.130	0.349	1	08/23/2019 03:55	WG1333354
2,4-Dinitrophenol	U		0.103	0.349	1	08/23/2019 03:55	WG1333354
2-Methylphenol	U		0.0103	0.349	1	08/23/2019 03:55	WG1333354
3&4-Methyl Phenol	U		0.00820	0.349	1	08/23/2019 03:55	WG1333354
2-Nitrophenol	U		0.0136	0.349	1	08/23/2019 03:55	WG1333354
4-Nitrophenol	U		0.0550	0.349	1	08/23/2019 03:55	WG1333354
Pentachlorophenol	U		0.0502	0.349	1	08/23/2019 03:55	WG1333354
Phenol	U		0.00728	0.349	1	08/23/2019 03:55	WG1333354
2,4,6-Trichlorophenol	U		0.00815	0.349	1	08/23/2019 03:55	WG1333354
2,4,5-Trichlorophenol	U		0.0109	0.349	1	08/23/2019 03:55	WG1333354
(S) 2-Fluorophenol	*74.7*			*12.0-120*		*08/23/2019 03:55*	WG1333354
(S) Phenol-d5	*68.2*			*10.0-120*		*08/23/2019 03:55*	WG1333354
(S) Nitrobenzene-d5	*66.0*			*10.0-122*		*08/23/2019 03:55*	WG1333354
(S) 2-Fluorobiphenyl	*67.9*			*15.0-120*		*08/23/2019 03:55*	WG1333354
(S) 2,4,6-Tribromophenol	*77.0*			*10.0-127*		*08/23/2019 03:55*	WG1333354
(S) p-Terphenyl-d14	*71.3*			*10.0-120*		*08/23/2019 03:55*	WG1333354

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00585	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Acenaphthene	0.00272	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Acenaphthylene	0.00224	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Benzo(a)anthracene	0.00551	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Benzo(a)pyrene	0.00390	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Benzo(b)fluoranthene	0.00233	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Benzo(g,h,i)perylene	0.00260	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Benzo(k)fluoranthene	0.00607	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Chrysene	0.00786		0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Dibenz(a,h)anthracene	0.00728		0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Fluoranthene	0.00407	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Fluorene	0.00373	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Indeno(1,2,3-cd)pyrene	0.00366	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Naphthalene	U		0.00209	0.0209	1	08/22/2019 16:59	WG1332890
Phenanthrene	0.00453	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
Pyrene	0.00446	J	0.000628	0.00628	1	08/22/2019 16:59	WG1332890
1-Methylnaphthalene	U		0.00209	0.0209	1	08/22/2019 16:59	WG1332890
2-Methylnaphthalene	0.00303	J	0.00209	0.0209	1	08/22/2019 16:59	WG1332890
2-Chloronaphthalene	U		0.00209	0.0209	1	08/22/2019 16:59	WG1332890
(S) Nitrobenzene-d5	*119*			*14.0-149*		*08/22/2019 16:59*	WG1332890
(S) 2-Fluorobiphenyl	*96.2*			*34.0-125*		*08/22/2019 16:59*	WG1332890
(S) p-Terphenyl-d14	*112*			*23.0-120*		*08/22/2019 16:59*	WG1332890

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.2		1	08/22/2019 20:33	WG1332928

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0405	0.260	1	08/23/2019 12:48	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	2.36		0.271	1.04	1	08/22/2019 01:33	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.3		0.478	2.08	1	08/21/2019 18:02	WG1331822
Cadmium	U		0.0727	0.520	1	08/21/2019 18:02	WG1331822
Chromium	9.83		0.145	1.04	1	08/21/2019 18:02	WG1331822
Lead	5.39		0.197	0.520	1	08/21/2019 18:02	WG1331822

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		1.34	3.95	38	08/22/2019 23:54	WG1332707
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*08/22/2019 23:54*	WG1332707

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0216	0.0395	1.52	08/21/2019 08:32	WG1332008
Acrylonitrile	U		0.00300	0.0197	1.52	08/21/2019 08:32	WG1332008
Benzene	0.00103	B J	0.000632	0.00158	1.52	08/21/2019 08:32	WG1332008
Bromobenzene	U		0.00166	0.0197	1.52	08/21/2019 08:32	WG1332008
Bromodichloromethane	U		0.00125	0.00395	1.52	08/21/2019 08:32	WG1332008
Bromoform	U		0.00945	0.0395	1.52	08/21/2019 08:32	WG1332008
Bromomethane	U		0.00584	0.0197	1.52	08/21/2019 08:32	WG1332008
n-Butylbenzene	U		0.00607	0.0197	1.52	08/21/2019 08:32	WG1332008
sec-Butylbenzene	U		0.00399	0.0197	1.52	08/21/2019 08:32	WG1332008
tert-Butylbenzene	U		0.00245	0.00790	1.52	08/21/2019 08:32	WG1332008
Carbon tetrachloride	U		0.00170	0.00790	1.52	08/21/2019 08:32	WG1332008
Chlorobenzene	U		0.000905	0.00395	1.52	08/21/2019 08:32	WG1332008
Chlorodibromomethane	U		0.000711	0.00395	1.52	08/21/2019 08:32	WG1332008
Chloroethane	U		0.00170	0.00790	1.52	08/21/2019 08:32	WG1332008
Chloroform	U		0.000656	0.00395	1.52	08/21/2019 08:32	WG1332008
Chloromethane	0.00669	J	0.00219	0.0197	1.52	08/21/2019 08:32	WG1332008
2-Chlorotoluene	U		0.00145	0.00395	1.52	08/21/2019 08:32	WG1332008
4-Chlorotoluene	U		0.00179	0.00790	1.52	08/21/2019 08:32	WG1332008
1,2-Dibromo-3-Chloropropane	U		0.00805	0.0395	1.52	08/21/2019 08:32	WG1332008
1,2-Dibromoethane	U		0.000829	0.00395	1.52	08/21/2019 08:32	WG1332008
Dibromomethane	U		0.00158	0.00790	1.52	08/21/2019 08:32	WG1332008
1,2-Dichlorobenzene	U		0.00229	0.00790	1.52	08/21/2019 08:32	WG1332008
1,3-Dichlorobenzene	U		0.00268	0.00790	1.52	08/21/2019 08:32	WG1332008
1,4-Dichlorobenzene	U		0.00311	0.00790	1.52	08/21/2019 08:32	WG1332008

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dichlorodifluoromethane	U		0.00129	0.00395	1.52	08/21/2019 08:32	WG1332008
1,1-Dichloroethane	U		0.000908	0.00395	1.52	08/21/2019 08:32	WG1332008
1,2-Dichloroethane	U		0.000750	0.00395	1.52	08/21/2019 08:32	WG1332008
1,1-Dichloroethene	U		0.000790	0.00395	1.52	08/21/2019 08:32	WG1332008
cis-1,2-Dichloroethene	U		0.00109	0.00395	1.52	08/21/2019 23:20	WG1332648
trans-1,2-Dichloroethene	U		0.00226	0.00790	1.52	08/21/2019 08:32	WG1332008
1,2-Dichloropropane	U		0.00201	0.00790	1.52	08/21/2019 08:32	WG1332008
1,1-Dichloropropene	U		0.00110	0.00395	1.52	08/21/2019 08:32	WG1332008
1,3-Dichloropropane	U		0.00276	0.00790	1.52	08/21/2019 08:32	WG1332008
cis-1,3-Dichloropropene	U		0.00107	0.00395	1.52	08/21/2019 08:32	WG1332008
trans-1,3-Dichloropropene	U		0.00241	0.00790	1.52	08/21/2019 08:32	WG1332008
2,2-Dichloropropane	U		0.00125	0.00395	1.52	08/21/2019 08:32	WG1332008
Di-isopropyl ether	U		0.000553	0.00158	1.52	08/21/2019 08:32	WG1332008
Ethylbenzene	0.000974	J	0.000838	0.00395	1.52	08/21/2019 08:32	WG1332008
Hexachloro-1,3-butadiene	U		0.0201	0.0395	1.52	08/21/2019 08:32	WG1332008
Isopropylbenzene	U		0.00136	0.00395	1.52	08/21/2019 08:32	WG1332008
p-Isopropyltoluene	U		0.00368	0.00790	1.52	08/21/2019 08:32	WG1332008
2-Butanone (MEK)	0.0775	B J0	0.0197	0.0395	1.52	08/21/2019 08:32	WG1332008
Methylene Chloride	U		0.0105	0.0395	1.52	08/21/2019 08:32	WG1332008
4-Methyl-2-pentanone (MIBK)	U		0.0158	0.0395	1.52	08/21/2019 08:32	WG1332008
Methyl tert-butyl ether	U		0.000466	0.00158	1.52	08/21/2019 08:32	WG1332008
Naphthalene	U		0.00493	0.0197	1.52	08/21/2019 08:32	WG1332008
n-Propylbenzene	U		0.00186	0.00790	1.52	08/21/2019 08:32	WG1332008
Styrene	0.00735	J	0.00431	0.0197	1.52	08/21/2019 08:32	WG1332008
1,1,1,2-Tetrachloroethane	U		0.000790	0.00395	1.52	08/21/2019 08:32	WG1332008
1,1,2,2-Tetrachloroethane	U		0.000616	0.00395	1.52	08/21/2019 08:32	WG1332008
1,1,2-Trichlorotrifluoroethane	U		0.00107	0.00395	1.52	08/21/2019 08:32	WG1332008
Tetrachloroethene	U		0.00110	0.00395	1.52	08/21/2019 08:32	WG1332008
Toluene	0.0140	B	0.00197	0.00790	1.52	08/21/2019 08:32	WG1332008
1,2,3-Trichlorobenzene	U		0.000987	0.00395	1.52	08/21/2019 08:32	WG1332008
1,2,4-Trichlorobenzene	U		0.00762	0.0197	1.52	08/21/2019 08:32	WG1332008
1,1,1-Trichloroethane	U		0.000434	0.00395	1.52	08/21/2019 08:32	WG1332008
1,1,2-Trichloroethane	U		0.00139	0.00395	1.52	08/21/2019 08:32	WG1332008
Trichloroethene	U		0.000632	0.00158	1.52	08/21/2019 08:32	WG1332008
Trichlorofluoromethane	U		0.000790	0.00395	1.52	08/21/2019 08:32	WG1332008
1,2,3-Trichloropropane	U		0.00805	0.0197	1.52	08/21/2019 08:32	WG1332008
1,2,4-Trimethylbenzene	U		0.00183	0.00790	1.52	08/21/2019 08:32	WG1332008
1,2,3-Trimethylbenzene	U		0.00182	0.00790	1.52	08/21/2019 08:32	WG1332008
Vinyl chloride	U		0.00108	0.00395	1.52	08/21/2019 23:20	WG1332648
1,3,5-Trimethylbenzene	U		0.00170	0.00790	1.52	08/21/2019 08:32	WG1332008
Xylenes, Total	U		0.00754	0.0103	1.52	08/21/2019 08:32	WG1332008
(S) Toluene-d8	*102*			*75.0-131*		*08/21/2019 08:32*	WG1332008
(S) Toluene-d8	*107*			*75.0-131*		*08/21/2019 23:20*	WG1332648
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*08/21/2019 08:32*	WG1332008
(S) 4-Bromofluorobenzene	*94.7*			*67.0-138*		*08/21/2019 23:20*	WG1332648
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*08/21/2019 08:32*	WG1332008
(S) 1,2-Dichloroethane-d4	*94.5*			*70.0-130*		*08/21/2019 23:20*	WG1332648

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.38	4.16	1	08/23/2019 03:58	WG1332942
Residual Range Organics (RRO)	U		3.46	10.4	1	08/23/2019 03:58	WG1332942
(S) o-Terphenyl	*70.1*			*18.0-148*		*08/23/2019 03:58*	WG1332942

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00364	0.0177	1	08/23/2019 11:34	WG1332642
PCB 1221	U		0.00558	0.0177	1	08/23/2019 11:34	WG1332642
PCB 1232	U		0.00433	0.0177	1	08/23/2019 11:34	WG1332642
PCB 1242	U		0.00330	0.0177	1	08/23/2019 11:34	WG1332642
PCB 1248	U		0.00327	0.0177	1	08/23/2019 11:34	WG1332642
PCB 1254	U		0.00491	0.0177	1	08/23/2019 11:34	WG1332642
PCB 1260	U		0.00513	0.0177	1	08/23/2019 11:34	WG1332642
PCB 1268	U		0.00189	0.0177	1	08/23/2019 11:34	WG1332642
(S) Decachlorobiphenyl	*112*			*10.0-135*		*08/23/2019 11:34*	WG1332642
(S) Tetrachloro-m-xylene	*96.3*			*10.0-139*		*08/23/2019 11:34*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00667	0.0346	1	08/23/2019 04:18	WG1333354
Acenaphthylene	U		0.00697	0.0346	1	08/23/2019 04:18	WG1333354
Anthracene	U		0.00657	0.0346	1	08/23/2019 04:18	WG1333354
Benzo(a)anthracene	U		0.00445	0.0346	1	08/23/2019 04:18	WG1333354
Benzo(b)fluoranthene	U		0.00722	0.0346	1	08/23/2019 04:18	WG1333354
Benzo(k)fluoranthene	U		0.00605	0.0346	1	08/23/2019 04:18	WG1333354
Benzo(g,h,i)perylene	U		0.00749	0.0346	1	08/23/2019 04:18	WG1333354
Benzo(a)pyrene	U		0.00570	0.0346	1	08/23/2019 04:18	WG1333354
Bis(2-chlorethoxy)methane	U		0.00800	0.346	1	08/23/2019 04:18	WG1333354
Bis(2-chloroethyl)ether	U		0.00931	0.346	1	08/23/2019 04:18	WG1333354
Bis(2-chloroisopropyl)ether	U		0.00790	0.346	1	08/23/2019 04:18	WG1333354
4-Bromophenyl-phenylether	U		0.0118	0.346	1	08/23/2019 04:18	WG1333354
2-Chloronaphthalene	U		0.00664	0.0346	1	08/23/2019 04:18	WG1333354
4-Chlorophenyl-phenylether	U		0.00652	0.346	1	08/23/2019 04:18	WG1333354
Chrysene	U		0.00577	0.0346	1	08/23/2019 04:18	WG1333354
Dibenz(a,h)anthracene	U		0.00853	0.0346	1	08/23/2019 04:18	WG1333354
3,3-Dichlorobenzidine	U		0.0825	0.346	1	08/23/2019 04:18	WG1333354
2,4-Dinitrotoluene	U		0.00631	0.346	1	08/23/2019 04:18	WG1333354
2,6-Dinitrotoluene	U		0.00766	0.346	1	08/23/2019 04:18	WG1333354
Fluoranthene	U		0.00515	0.0346	1	08/23/2019 04:18	WG1333354
Fluorene	U		0.00709	0.0346	1	08/23/2019 04:18	WG1333354
Hexachlorobenzene	U		0.00890	0.346	1	08/23/2019 04:18	WG1333354
Hexachloro-1,3-butadiene	U		0.0104	0.346	1	08/23/2019 04:18	WG1333354
Hexachlorocyclopentadiene	U		0.0610	0.346	1	08/23/2019 04:18	WG1333354
Hexachloroethane	U		0.0139	0.346	1	08/23/2019 04:18	WG1333354
Indeno(1,2,3-cd)pyrene	U		0.00802	0.0346	1	08/23/2019 04:18	WG1333354
Isophorone	U		0.00542	0.346	1	08/23/2019 04:18	WG1333354
Naphthalene	U		0.00924	0.0346	1	08/23/2019 04:18	WG1333354
Nitrobenzene	U		0.00722	0.346	1	08/23/2019 04:18	WG1333354
n-Nitrosodimethylamine	U		0.0672	0.346	1	08/23/2019 04:18	WG1333354
n-Nitrosodiphenylamine	U		0.0935	0.346	1	08/23/2019 04:18	WG1333354
n-Nitrosodi-n-propylamine	U		0.00942	0.346	1	08/23/2019 04:18	WG1333354
Phenanthrene	U		0.00549	0.0346	1	08/23/2019 04:18	WG1333354
Pyridine	U		0.0653	0.346	1	08/23/2019 04:18	WG1333354
Benzylbutyl phthalate	U		0.0107	0.346	1	08/23/2019 04:18	WG1333354
Bis(2-ethylhexyl)phthalate	U		0.0125	0.346	1	08/23/2019 04:18	WG1333354
Di-n-butyl phthalate	U		0.0113	0.346	1	08/23/2019 04:18	WG1333354
Diethyl phthalate	U		0.00718	0.346	1	08/23/2019 04:18	WG1333354
Dimethyl phthalate	0.0173	B J	0.00561	0.346	1	08/23/2019 04:18	WG1333354
Di-n-octyl phthalate	U		0.00943	0.346	1	08/23/2019 04:18	WG1333354
Pyrene	U		0.0128	0.0346	1	08/23/2019 04:18	WG1333354
1,2,4-Trichlorobenzene	U		0.00910	0.346	1	08/23/2019 04:18	WG1333354

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Chloro-3-methylphenol	U		0.00496	0.346	1	08/23/2019 04:18	WG1333354
2-Chlorophenol	U		0.00864	0.346	1	08/23/2019 04:18	WG1333354
2,4-Dichlorophenol	U		0.00775	0.346	1	08/23/2019 04:18	WG1333354
2,4-Dimethylphenol	U		0.0489	0.346	1	08/23/2019 04:18	WG1333354
4,6-Dinitro-2-methylphenol	U		0.129	0.346	1	08/23/2019 04:18	WG1333354
2,4-Dinitrophenol	U		0.102	0.346	1	08/23/2019 04:18	WG1333354
2-Methylphenol	U		0.0102	0.346	1	08/23/2019 04:18	WG1333354
3&4-Methyl Phenol	U		0.00814	0.346	1	08/23/2019 04:18	WG1333354
2-Nitrophenol	U		0.0135	0.346	1	08/23/2019 04:18	WG1333354
4-Nitrophenol	U		0.0546	0.346	1	08/23/2019 04:18	WG1333354
Pentachlorophenol	U		0.0499	0.346	1	08/23/2019 04:18	WG1333354
Phenol	U		0.00722	0.346	1	08/23/2019 04:18	WG1333354
2,4,6-Trichlorophenol	U		0.00810	0.346	1	08/23/2019 04:18	WG1333354
2,4,5-Trichlorophenol	U		0.0108	0.346	1	08/23/2019 04:18	WG1333354
(S) 2-Fluorophenol	*74.4*			*12.0-120*		*08/23/2019 04:18*	WG1333354
(S) Phenol-d5	*67.7*			*10.0-120*		*08/23/2019 04:18*	WG1333354
(S) Nitrobenzene-d5	*67.6*			*10.0-122*		*08/23/2019 04:18*	WG1333354
(S) 2-Fluorobiphenyl	*66.0*			*15.0-120*		*08/23/2019 04:18*	WG1333354
(S) 2,4,6-Tribromophenol	*75.8*			*10.0-127*		*08/23/2019 04:18*	WG1333354
(S) p-Terphenyl-d14	*72.8*			*10.0-120*		*08/23/2019 04:18*	WG1333354

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Acenaphthene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Acenaphthylene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Benzo(a)anthracene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Benzo(a)pyrene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Benzo(b)fluoranthene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Benzo(g,h,i)perylene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Benzo(k)fluoranthene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Chrysene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Dibenz(a,h)anthracene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Fluoranthene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Fluorene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Indeno(1,2,3-cd)pyrene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Naphthalene	U		0.00208	0.0208	1	08/22/2019 17:20	WG1332890
Phenanthrene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
Pyrene	U		0.000624	0.00624	1	08/22/2019 17:20	WG1332890
1-Methylnaphthalene	U		0.00208	0.0208	1	08/22/2019 17:20	WG1332890
2-Methylnaphthalene	U		0.00208	0.0208	1	08/22/2019 17:20	WG1332890
2-Chloronaphthalene	U		0.00208	0.0208	1	08/22/2019 17:20	WG1332890
(S) Nitrobenzene-d5	*123*			*14.0-149*		*08/22/2019 17:20*	WG1332890
(S) 2-Fluorobiphenyl	*100*			*34.0-125*		*08/22/2019 17:20*	WG1332890
(S) p-Terphenyl-d14	*118*			*23.0-120*		*08/22/2019 17:20*	WG1332890

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	08/22/2019 01:09	WG1332861
Acrolein	U		8.87	50.0	1	08/22/2019 01:09	WG1332861
Acrylonitrile	U		1.87	10.0	1	08/22/2019 01:09	WG1332861
Benzene	U		0.331	1.00	1	08/22/2019 01:09	WG1332861
Bromobenzene	U		0.352	1.00	1	08/22/2019 01:09	WG1332861
Bromodichloromethane	U		0.380	1.00	1	08/22/2019 01:09	WG1332861
Bromoform	U		0.469	1.00	1	08/22/2019 01:09	WG1332861
Bromomethane	U		0.866	5.00	1	08/22/2019 01:09	WG1332861
n-Butylbenzene	U		0.361	1.00	1	08/22/2019 01:09	WG1332861
sec-Butylbenzene	U		0.365	1.00	1	08/22/2019 01:09	WG1332861
tert-Butylbenzene	U		0.399	1.00	1	08/22/2019 01:09	WG1332861
Carbon tetrachloride	U		0.379	1.00	1	08/22/2019 01:09	WG1332861
Chlorobenzene	U		0.348	1.00	1	08/22/2019 01:09	WG1332861
Chlorodibromomethane	U		0.327	1.00	1	08/22/2019 01:09	WG1332861
Chloroethane	U		0.453	5.00	1	08/22/2019 01:09	WG1332861
Chloroform	U		0.324	5.00	1	08/22/2019 01:09	WG1332861
Chloromethane	U		0.276	2.50	1	08/22/2019 01:09	WG1332861
2-Chlorotoluene	U		0.375	1.00	1	08/22/2019 01:09	WG1332861
4-Chlorotoluene	U		0.351	1.00	1	08/22/2019 01:09	WG1332861
1,2-Dibromo-3-Chloropropane	U	J0	1.33	5.00	1	08/22/2019 01:09	WG1332861
1,2-Dibromoethane	U		0.381	1.00	1	08/22/2019 01:09	WG1332861
Dibromomethane	U		0.346	1.00	1	08/22/2019 01:09	WG1332861
1,2-Dichlorobenzene	U		0.349	1.00	1	08/22/2019 01:09	WG1332861
1,3-Dichlorobenzene	U		0.220	1.00	1	08/22/2019 01:09	WG1332861
1,4-Dichlorobenzene	U		0.274	1.00	1	08/22/2019 01:09	WG1332861
Dichlorodifluoromethane	U		0.551	5.00	1	08/22/2019 01:09	WG1332861
1,1-Dichloroethane	U		0.259	1.00	1	08/22/2019 01:09	WG1332861
1,2-Dichloroethane	U		0.361	1.00	1	08/22/2019 01:09	WG1332861
1,1-Dichloroethene	U		0.398	1.00	1	08/22/2019 01:09	WG1332861
cis-1,2-Dichloroethene	U		0.260	1.00	1	08/22/2019 01:09	WG1332861
trans-1,2-Dichloroethene	U		0.396	1.00	1	08/22/2019 01:09	WG1332861
1,2-Dichloropropane	U		0.306	1.00	1	08/22/2019 01:09	WG1332861
1,1-Dichloropropene	U		0.352	1.00	1	08/22/2019 01:09	WG1332861
1,3-Dichloropropane	U		0.366	1.00	1	08/22/2019 01:09	WG1332861
cis-1,3-Dichloropropene	U		0.418	1.00	1	08/22/2019 01:09	WG1332861
trans-1,3-Dichloropropene	U		0.419	1.00	1	08/22/2019 01:09	WG1332861
2,2-Dichloropropane	U	J0	0.321	1.00	1	08/22/2019 01:09	WG1332861
Di-isopropyl ether	U		0.320	1.00	1	08/22/2019 01:09	WG1332861
Ethylbenzene	U		0.384	1.00	1	08/22/2019 01:09	WG1332861
Hexachloro-1,3-butadiene	U		0.256	1.00	1	08/22/2019 01:09	WG1332861
Isopropylbenzene	U		0.326	1.00	1	08/22/2019 01:09	WG1332861
p-Isopropyltoluene	U		0.350	1.00	1	08/22/2019 01:09	WG1332861
2-Butanone (MEK)	U		3.93	10.0	1	08/22/2019 01:09	WG1332861
Methylene Chloride	U		1.00	5.00	1	08/22/2019 01:09	WG1332861
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	08/22/2019 01:09	WG1332861
Methyl tert-butyl ether	U		0.367	1.00	1	08/22/2019 01:09	WG1332861
Naphthalene	U	J0	1.00	5.00	1	08/22/2019 01:09	WG1332861
n-Propylbenzene	U		0.349	1.00	1	08/22/2019 01:09	WG1332861
Styrene	U		0.307	1.00	1	08/22/2019 01:09	WG1332861
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	08/22/2019 01:09	WG1332861
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	08/22/2019 01:09	WG1332861
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	08/22/2019 01:09	WG1332861
Tetrachloroethene	U		0.372	1.00	1	08/22/2019 01:09	WG1332861
Toluene	U		0.412	1.00	1	08/22/2019 01:09	WG1332861
1,2,3-Trichlorobenzene	U	J0	0.230	1.00	1	08/22/2019 01:09	WG1332861
1,2,4-Trichlorobenzene	U	J0	0.355	1.00	1	08/22/2019 01:09	WG1332861

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.319	1.00	1	08/22/2019 01:09	WG1332861
1,1,2-Trichloroethane	U		0.383	1.00	1	08/22/2019 01:09	WG1332861
Trichloroethene	U		0.398	1.00	1	08/22/2019 01:09	WG1332861
Trichlorofluoromethane	U		1.20	5.00	1	08/22/2019 01:09	WG1332861
1,2,3-Trichloropropane	U		0.807	2.50	1	08/22/2019 01:09	WG1332861
1,2,4-Trimethylbenzene	U		0.373	1.00	1	08/22/2019 01:09	WG1332861
1,2,3-Trimethylbenzene	U		0.321	1.00	1	08/22/2019 01:09	WG1332861
1,3,5-Trimethylbenzene	U		0.387	1.00	1	08/22/2019 01:09	WG1332861
Vinyl chloride	U		0.259	1.00	1	08/22/2019 01:09	WG1332861
Xylenes, Total	U		1.06	3.00	1	08/22/2019 01:09	WG1332861
(S) Toluene-d8	*103*			*80.0-120*		*08/22/2019 01:09*	WG1332861
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*08/22/2019 01:09*	WG1332861
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*08/22/2019 01:09*	WG1332861

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.1		1	08/22/2019 20:33	WG1332928

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.206	J J6	0.0402	0.258	1	08/23/2019 12:51	WG1333521

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoride	256		2.69	10.3	10	08/22/2019 10:39	WG1330937

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.6		0.474	2.06	1	08/21/2019 18:05	WG1331822
Cadmium	0.243	J	0.0721	0.515	1	08/21/2019 18:05	WG1331822
Chromium	26.8		0.144	1.03	1	08/21/2019 18:05	WG1331822
Lead	34.8		0.196	0.515	1	08/21/2019 18:05	WG1331822

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00361	0.0175	1	08/23/2019 12:58	WG1332642
PCB 1221	U		0.00553	0.0175	1	08/23/2019 12:58	WG1332642
PCB 1232	U		0.00430	0.0175	1	08/23/2019 12:58	WG1332642
PCB 1242	U		0.00328	0.0175	1	08/23/2019 12:58	WG1332642
PCB 1248	1.28		0.00649	0.0350	2	08/23/2019 19:50	WG1332642
PCB 1254	U		0.00486	0.0175	1	08/23/2019 12:58	WG1332642
PCB 1260	U		0.00509	0.0175	1	08/23/2019 12:58	WG1332642
PCB 1268	0.221		0.00187	0.0175	1	08/23/2019 12:58	WG1332642
(S) Decachlorobiphenyl	*103*			*10.0-135*		*08/23/2019 12:58*	WG1332642
(S) Decachlorobiphenyl	*92.7*			*10.0-135*		*08/23/2019 19:50*	WG1332642
(S) Tetrachloro-m-xylene	*73.8*			*10.0-139*		*08/23/2019 12:58*	WG1332642
(S) Tetrachloro-m-xylene	*75.2*			*10.0-139*		*08/23/2019 19:50*	WG1332642

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.708		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Acenaphthene	0.280		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Acenaphthylene	U		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Benzo(a)anthracene	4.33		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Benzo(a)pyrene	4.65		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Benzo(b)fluoranthene	6.72		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Benzo(g,h,i)perylene	3.51		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Benzo(k)fluoranthene	1.68		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Chrysene	4.27		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Dibenz(a,h)anthracene	0.910		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Fluoranthene	6.65		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Fluorene	0.181		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Indeno(1,2,3-cd)pyrene	3.05		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Naphthalene	0.0681	J	0.0103	0.103	5	08/23/2019 05:22	WG1332946

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Phenanthrene	3.31		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
Pyrene	6.09		0.00309	0.0309	5	08/23/2019 05:22	WG1332946
1-Methylnaphthalene	0.0444	J	0.0103	0.103	5	08/23/2019 05:22	WG1332946
2-Methylnaphthalene	0.0534	J	0.0103	0.103	5	08/23/2019 05:22	WG1332946
2-Chloronaphthalene	U		0.0103	0.103	5	08/23/2019 05:22	WG1332946
(S) Nitrobenzene-d5	*67.0*			*14.0-149*		*08/23/2019 05:22*	WG1332946
(S) 2-Fluorobiphenyl	*70.9*			*34.0-125*		*08/23/2019 05:22*	WG1332946
(S) p-Terphenyl-d14	*81.6*			*23.0-120*		*08/23/2019 05:22*	WG1332946

Method Blank (MB)

(MB) R3443670-1 08/23/19 07:42

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1129818-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-01 08/23/19 07:42 • (DUP) R3443670-3 08/23/19 07:42

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.6	96.8	1	0.130		10

Laboratory Control Sample (LCS)

(LCS) R3443670-2 08/23/19 07:42

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) R3443669-1 08/23/19 07:32

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1129818-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-11 08/23/19 07:32 • (DUP) R3443669-3 08/23/19 07:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.6	83.8	1	0.883		10

Laboratory Control Sample (LCS)

(LCS) R3443669-2 08/23/19 07:32

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) R3443581-1 08/22/19 20:47

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1129818-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-22 08/22/19 20:47 • (DUP) R3443581-3 08/22/19 20:47

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.3	97.6	1	0.323		10

Laboratory Control Sample (LCS)

(LCS) R3443581-2 08/22/19 20:47

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) R3443580-1 08/22/19 20:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1129818-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-32 08/22/19 20:40 • (DUP) R3443580-3 08/22/19 20:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	99.7	99.7	1	0.00231		10

Laboratory Control Sample (LCS)

(LCS) R3443580-2 08/22/19 20:40

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) R3443578-1 08/22/19 20:33

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1129847-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1129847-02 08/22/19 20:33 • (DUP) R3443578-3 08/22/19 20:33

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.6	74.9	1	0.328		10

Laboratory Control Sample (LCS)

(LCS) R3443578-2 08/22/19 20:33

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) R3443047-1 08/22/19 09:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide	U		0.0390	0.250

L1129786-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1129786-01 08/22/19 10:08 • (DUP) R3443047-5 08/22/19 10:09

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	1.78	1.33	1	28.8	P1	20

L1129818-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-06 08/22/19 11:03 • (DUP) R3443047-8 08/22/19 10:26

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3443047-2 08/22/19 09:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	2.50	2.43	97.2	50.0-150	

L1129198-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129198-02 08/22/19 10:03 • (MS) R3443047-3 08/22/19 10:04 • (MSD) R3443047-4 08/22/19 10:05

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 %
Cyanide	1.67	ND	1.22	1.36	73.1	81.7	1	75.0-125	J6		11.1	20

L1129818-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-01 08/22/19 10:16 • (MS) R3443047-6 08/22/19 10:17 • (MSD) R3443047-7 08/22/19 10:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	1.72	U	1.49	1.65	86.3	95.5	1	75.0-125			10.2	20

Method Blank (MB)

(MB) R3442805-1 08/21/19 13:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide	U		0.0390	0.250

L1129818-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-09 08/21/19 13:44 • (DUP) R3442805-3 08/21/19 13:45

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0.000		20

L1129818-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-28 08/21/19 14:12 • (DUP) R3442805-8 08/21/19 14:13

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.0433	0.0394	1	9.42	J	20

Laboratory Control Sample (LCS)

(LCS) R3442805-2 08/21/19 13:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	2.50	2.60	104	50.0-150	

L1129818-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-19 08/21/19 13:57 • (MS) R3442805-4 08/21/19 13:58 • (MSD) R3442805-5 08/21/19 13:59

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	1.70	U	1.61	1.57	94.7	92.1	1	75.0-125			2.77	20

L1129818-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-26 08/21/19 14:08 • (MS) R3442805-6 08/21/19 14:09 • (MSD) R3442805-7 08/21/19 14:10

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	1.70	3.51	6.34	4.45	167	55.4	1	75.0-125	E J5	E J3 J6	35.1	20

Method Blank (MB)

(MB) R3443599-1 08/23/19 12:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide	U		0.0390	0.250

L1129818-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-08 08/23/19 12:32 • (DUP) R3443599-3 08/23/19 12:33

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0.000		20

L1129818-33 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-33 08/23/19 12:42 • (DUP) R3443599-6 08/23/19 12:43

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.0849	0.0891	1	4.86	J	20

Laboratory Control Sample (LCS)

(LCS) R3443599-2 08/23/19 12:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	2.50	2.67	107	50.0-150	

L1129818-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-32 08/23/19 12:36 • (MS) R3443599-4 08/23/19 12:40 • (MSD) R3443599-5 08/23/19 12:41

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	1.67	U	0.871	0.650	52.1	38.9	1	75.0-125	J6	J3 J6	29.1	20

L1129818-41 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-41 08/23/19 12:51 • (MS) R3443599-7 08/23/19 12:52 • (MSD) R3443599-8 08/23/19 12:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	1.72	0.206	1.38	1.26	68.6	61.2	1	75.0-125	J6	J6	9.66	20

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

Method Blank (MB)

(MB) R3443006-1 08/22/19 01:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Fluoride	U		0.261	1.00

L1129818-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-01 08/22/19 02:06 • (DUP) R3443006-3 08/22/19 02:20

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	29.3	28.3	1	3.58		15

L1129818-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-19 08/22/19 08:18 • (DUP) R3443006-6 08/22/19 08:33

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	2.31	2.31	1	0.0115		15

Laboratory Control Sample (LCS)

(LCS) R3443006-2 08/22/19 01:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	20.0	21.3	107	80.0-120	

L1129818-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-03 08/22/19 02:50 • (MS) R3443006-4 08/22/19 03:05 • (MSD) R3443006-5 08/22/19 03:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	52.6	20.8	62.4	62.1	79.1	78.5	1	80.0-120	J6	J6	0.509	15

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

Method Blank (MB)

(MB) R3442687-1 08/21/19 09:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Fluoride	U		0.261	1.00

L1129818-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-22 08/21/19 13:33 • (DUP) R3442687-3 08/21/19 14:10

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	97.7	100	1	2.46		15

Laboratory Control Sample (LCS)

(LCS) R3442687-2 08/21/19 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	20.0	20.6	103	80.0-120	

L1129896-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129896-02 08/22/19 04:43 • (MS) R3442687-5 08/22/19 05:21 • (MSD) R3442687-6 08/22/19 05:59

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 %
Fluoride	50.0	ND	45.2	43.9	89.4	86.8	1	80.0-120			2.95	15

Method Blank (MB)

(MB) R3442898-1 08/21/19 15:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.460	2.00
Cadmium	U		0.0700	0.500
Chromium	U		0.140	1.00
Lead	U		0.190	0.500

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

(LCS) R3442898-2 08/21/19 15:27 • (LCSD) R3442898-3 08/21/19 15:29

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 %
Arsenic	100	92.8	91.7	92.8	91.7	80.0-120			1.16	20
Cadmium	100	94.0	92.6	94.0	92.6	80.0-120			1.45	20
Chromium	100	94.3	92.5	94.3	92.5	80.0-120			1.88	20
Lead	100	94.6	92.8	94.6	92.8	80.0-120			1.88	20

L1129818-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-06 08/21/19 15:32 • (MS) R3442898-6 08/21/19 15:40 • (MSD) R3442898-7 08/21/19 15:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	103	12.0	102	105	86.7	90.4	1	75.0-125			3.74	20
Cadmium	103	U	93.4	95.6	90.4	92.5	1	75.0-125			2.28	20
Chromium	103	10.4	99.3	101	86.0	88.2	1	75.0-125			2.22	20
Lead	103	7.36	106	105	95.3	95.0	1	75.0-125			0.260	20

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

Method Blank (MB)

(MB) R3442899-1 08/21/19 16:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.460	2.00
Cadmium	U		0.0700	0.500
Chromium	U		0.140	1.00
Lead	U		0.190	0.500

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

(LCS) R3442899-2 08/21/19 16:53 • (LCSD) R3442899-3 08/21/19 16:56

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 %
Arsenic	100	91.8	89.7	91.8	89.7	80.0-120			2.27	20
Cadmium	100	92.9	91.6	92.9	91.6	80.0-120			1.40	20
Chromium	100	94.0	91.6	94.0	91.6	80.0-120			2.53	20
Lead	100	93.4	91.9	93.4	91.9	80.0-120			1.62	20

L1129818-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-28 08/21/19 16:58 • (MS) R3442899-6 08/21/19 17:06 • (MSD) R3442899-7 08/21/19 17:09

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	101	5.10	105	99.6	99.2	93.6	1	75.0-125			5.48	20
Cadmium	101	0.240	102	94.7	101	93.5	1	75.0-125			7.37	20
Chromium	101	44.1	111	104	65.9	59.4	1	75.0-125	J6	J6	6.15	20
Lead	101	14.7	111	108	95.6	92.2	1	75.0-125			3.09	20

Method Blank (MB)

(MB) R3443198-2 08/22/19 00:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.0339	0.100
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3443198-1 08/21/19 23:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	6.42	117	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*111*	*77.0-120*	

L1129818-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-36 08/22/19 08:24 • (MS) R3443198-3 08/22/19 08:44 • (MSD) R3443198-4 08/22/19 09:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.69	1.66	111	126	76.6	87.3	25	10.0-149			12.8	27
(S) a,a,a-Trifluorotoluene(FID)					*108*	*109*		*77.0-120*				

Method Blank (MB)

(MB) R3443491-1 08/22/19 18:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C6 - C12	U		0.0339	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3443491-2 08/22/19 18:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C6 - C12	5.50	5.96	108	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*109*	*77.0-120*	

Method Blank (MB)

(MB) R3442780-2 08/21/19 00:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	0.000403	J	0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500

Method Blank (MB)

(MB) R3442780-2 08/21/19 00:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Butanone (MEK)	0.0210	J	0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	0.00119	J	0.000700	0.00250
Toluene	0.00132	J	0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3442780-1 08/20/19 22:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.610	97.6	10.0-160	
Acrylonitrile	0.625	0.715	114	45.0-153	
Benzene	0.125	0.136	109	70.0-123	
Bromobenzene	0.125	0.143	114	73.0-121	
Bromodichloromethane	0.125	0.137	109	73.0-121	
Bromoform	0.125	0.122	97.5	64.0-132	
Bromomethane	0.125	0.152	122	56.0-147	

Laboratory Control Sample (LCS)

(LCS) R3442780-1 08/20/19 22:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
n-Butylbenzene	0.125	0.147	118	68.0-135	
sec-Butylbenzene	0.125	0.144	116	74.0-130	
tert-Butylbenzene	0.125	0.144	115	75.0-127	
Carbon tetrachloride	0.125	0.130	104	66.0-128	
Chlorobenzene	0.125	0.143	114	76.0-128	
Chlorodibromomethane	0.125	0.131	105	74.0-127	
Chloroethane	0.125	0.149	119	61.0-134	
Chloroform	0.125	0.139	112	72.0-123	
Chloromethane	0.125	0.141	113	51.0-138	
2-Chlorotoluene	0.125	0.141	113	75.0-124	
4-Chlorotoluene	0.125	0.144	115	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.133	106	59.0-130	
1,2-Dibromoethane	0.125	0.146	116	74.0-128	
Dibromomethane	0.125	0.142	114	75.0-122	
1,2-Dichlorobenzene	0.125	0.138	110	76.0-124	
1,3-Dichlorobenzene	0.125	0.142	113	76.0-125	
1,4-Dichlorobenzene	0.125	0.133	106	77.0-121	
Dichlorodifluoromethane	0.125	0.180	144	43.0-156	
1,1-Dichloroethane	0.125	0.137	110	70.0-127	
1,2-Dichloroethane	0.125	0.139	111	65.0-131	
1,1-Dichloroethene	0.125	0.140	112	65.0-131	
trans-1,2-Dichloroethene	0.125	0.128	103	71.0-125	
1,2-Dichloropropane	0.125	0.143	114	74.0-125	
1,1-Dichloropropene	0.125	0.147	118	73.0-125	
1,3-Dichloropropane	0.125	0.148	118	80.0-125	
cis-1,3-Dichloropropene	0.125	0.139	111	76.0-127	
trans-1,3-Dichloropropene	0.125	0.144	115	73.0-127	
2,2-Dichloropropane	0.125	0.114	91.5	59.0-135	
Di-isopropyl ether	0.125	0.121	96.5	60.0-136	
Ethylbenzene	0.125	0.142	113	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.146	117	57.0-150	
Isopropylbenzene	0.125	0.151	121	72.0-127	
p-Isopropyltoluene	0.125	0.151	121	72.0-133	
2-Butanone (MEK)	0.625	0.780	125	30.0-160	
Methylene Chloride	0.125	0.129	104	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.713	114	56.0-143	
Methyl tert-butyl ether	0.125	0.112	89.3	66.0-132	
Naphthalene	0.125	0.140	112	59.0-130	
n-Propylbenzene	0.125	0.145	116	74.0-126	
Styrene	0.125	0.144	115	72.0-127	

Laboratory Control Sample (LCS)

(LCS) R3442780-1 08/20/19 22:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	0.125	0.140	112	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.146	117	68.0-128	
Tetrachloroethene	0.125	0.155	124	70.0-136	
Toluene	0.125	0.138	110	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.113	90.6	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.140	112	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.142	113	62.0-137	
1,1,1-Trichloroethane	0.125	0.137	109	69.0-126	
1,1,2-Trichloroethane	0.125	0.139	111	78.0-123	
Trichloroethene	0.125	0.132	106	76.0-126	
Trichlorofluoromethane	0.125	0.144	116	61.0-142	
1,2,3-Trichloropropane	0.125	0.160	128	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.141	113	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.143	114	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.139	111	73.0-127	
Xylenes, Total	0.375	0.421	112	72.0-127	
(S) Toluene-d8			*103*	*75.0-131*	
(S) 4-Bromofluorobenzene			*106*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*109*	*70.0-130*	

L1129818-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-14 08/21/19 05:40 • (MS) R3442780-3 08/21/19 08:54 • (MSD) R3442780-4 08/21/19 09:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.650	U	0.480	0.475	73.9	73.0	1	10.0-160			1.11	40
Acrylonitrile	0.650	U	0.653	0.614	100	94.5	1	10.0-160			6.11	40
Benzene	0.130	U	0.128	0.124	98.3	95.1	1	10.0-149			3.37	37
Bromobenzene	0.130	U	0.141	0.133	108	102	1	10.0-156			5.86	38
Bromodichloromethane	0.130	U	0.127	0.124	97.7	95.4	1	10.0-143			2.30	37
Bromoform	0.130	U	0.116	0.115	89.1	88.3	1	10.0-146			0.880	36
Bromomethane	0.130	U	0.0595	0.0938	45.7	72.1	1	10.0-149		J3	44.8	38
n-Butylbenzene	0.130	U	0.131	0.129	101	99.5	1	10.0-160			1.32	40
sec-Butylbenzene	0.130	U	0.137	0.130	105	100	1	10.0-159			4.92	39
tert-Butylbenzene	0.130	U	0.140	0.133	108	102	1	10.0-156			5.49	39
Carbon tetrachloride	0.130	U	0.105	0.0998	81.1	76.7	1	10.0-145			5.58	37
Chlorobenzene	0.130	U	0.131	0.133	101	102	1	10.0-152			0.977	39
Chlorodibromomethane	0.130	U	0.120	0.116	92.2	89.5	1	10.0-146			2.98	37
Chloroethane	0.130	U	0.0779	0.0437	59.9	33.6	1	10.0-146		J3	56.2	40

L1129818-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-14 08/21/19 05:40 • (MS) R3442780-3 08/21/19 08:54 • (MSD) R3442780-4 08/21/19 09:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloroform	0.130	U	0.126	0.124	97.0	95.2	1	10.0-146			1.79	37
Chloromethane	0.130	U	0.135	0.123	104	94.5	1	10.0-159			9.66	37
2-Chlorotoluene	0.130	U	0.135	0.126	104	96.7	1	10.0-159			7.18	38
4-Chlorotoluene	0.130	U	0.139	0.132	107	102	1	10.0-155			4.88	39
1,2-Dibromo-3-Chloropropane	0.130	U	0.0997	0.0953	76.7	73.3	1	10.0-151			4.54	39
1,2-Dibromoethane	0.130	U	0.129	0.131	99.4	100	1	10.0-148			0.984	34
Dibromomethane	0.130	U	0.129	0.127	99.3	97.7	1	10.0-147			1.60	35
1,2-Dichlorobenzene	0.130	U	0.128	0.125	98.5	95.9	1	10.0-155			2.66	37
1,3-Dichlorobenzene	0.130	U	0.132	0.128	102	98.7	1	10.0-153			3.13	38
1,4-Dichlorobenzene	0.130	U	0.122	0.115	93.4	88.4	1	10.0-151			5.50	38
Dichlorodifluoromethane	0.130	U	0.196	0.151	150	116	1	10.0-160			25.7	35
1,1-Dichloroethane	0.130	U	0.130	0.124	100	95.5	1	10.0-147			4.92	37
1,2-Dichloroethane	0.130	U	0.131	0.126	100	96.7	1	10.0-148			3.74	35
1,1-Dichloroethene	0.130	U	0.110	0.0991	84.7	76.2	1	10.0-155			10.5	37
trans-1,2-Dichloroethene	0.130	U	0.108	0.101	82.9	77.8	1	10.0-150			6.29	37
1,2-Dichloropropane	0.130	U	0.140	0.136	108	104	1	10.0-148			3.28	37
1,1-Dichloropropene	0.130	U	0.130	0.127	100	97.6	1	10.0-153			2.71	35
1,3-Dichloropropane	0.130	U	0.137	0.139	105	107	1	10.0-154			1.56	35
cis-1,3-Dichloropropene	0.130	U	0.132	0.131	101	101	1	10.0-151			0.472	37
trans-1,3-Dichloropropene	0.130	U	0.137	0.134	105	103	1	10.0-148			2.17	37
2,2-Dichloropropane	0.130	U	0.0877	0.0821	67.5	63.2	1	10.0-138			6.61	36
Di-isopropyl ether	0.130	U	0.119	0.113	91.5	86.7	1	10.0-147			5.44	36
Ethylbenzene	0.130	U	0.129	0.129	99.3	99.2	1	10.0-160			0.132	38
Hexachloro-1,3-butadiene	0.130	U	0.133	0.148	102	114	1	10.0-160			10.7	40
Isopropylbenzene	0.130	U	0.128	0.127	98.6	97.7	1	10.0-155			0.929	38
p-Isopropyltoluene	0.130	U	0.138	0.135	106	104	1	10.0-160			2.13	40
2-Butanone (MEK)	0.650	0.0251	0.748	0.721	111	107	1	10.0-160			3.67	40
Methylene Chloride	0.130	U	0.121	0.107	93.4	82.5	1	10.0-141			12.5	37
4-Methyl-2-pentanone (MIBK)	0.650	U	0.687	0.680	106	105	1	10.0-160			0.992	35
Methyl tert-butyl ether	0.130	U	0.0922	0.0812	70.9	62.5	1	11.0-147			12.6	35
Naphthalene	0.130	U	0.0918	0.110	70.6	84.5	1	10.0-160			17.8	36
n-Propylbenzene	0.130	U	0.138	0.130	106	99.7	1	10.0-158			6.23	38
Styrene	0.130	U	0.123	0.130	94.9	100	1	10.0-160			5.49	40
1,1,1,2-Tetrachloroethane	0.130	U	0.126	0.123	96.7	94.8	1	10.0-149			1.94	39
1,1,2,2-Tetrachloroethane	0.130	U	0.131	0.125	101	96.5	1	10.0-160			4.44	35
Tetrachloroethene	0.130	U	0.129	0.130	98.9	100	1	10.0-156			1.07	39
Toluene	0.130	0.00143	0.126	0.127	95.8	96.6	1	10.0-156			0.799	38
1,2,3-Trichlorobenzene	0.130	U	0.0955	0.113	73.4	87.1	1	10.0-160			17.1	40
1,1,2-Trichlorotrifluoroethane	0.130	U	0.0644	0.0601	49.5	46.2	1	10.0-160			6.98	36

L1129818-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-14 08/21/19 05:40 • (MS) R3442780-3 08/21/19 08:54 • (MSD) R3442780-4 08/21/19 09:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4-Trichlorobenzene	0.130	U	0.107	0.121	82.1	93.3	1	10.0-160			12.8	40
1,1,1-Trichloroethane	0.130	U	0.111	0.101	85.2	77.4	1	10.0-144			9.63	35
1,1,2-Trichloroethane	0.130	U	0.130	0.133	99.7	102	1	10.0-160			2.46	35
Trichloroethene	0.130	U	0.121	0.125	93.2	95.9	1	10.0-156			2.86	38
Trichlorofluoromethane	0.130	U	0.0855	0.0616	65.7	47.4	1	10.0-160			32.4	40
1,2,3-Trichloropropane	0.130	U	0.147	0.138	113	106	1	10.0-156			5.86	35
1,2,4-Trimethylbenzene	0.130	U	0.134	0.128	103	98.3	1	10.0-160			4.78	36
1,2,3-Trimethylbenzene	0.130	U	0.132	0.127	102	97.8	1	10.0-160			3.89	36
1,3,5-Trimethylbenzene	0.130	U	0.128	0.119	98.4	91.6	1	10.0-160			7.16	38
Xylenes, Total	0.390	U	0.381	0.377	97.6	96.5	1	10.0-160			1.10	38
(S) Toluene-d8					*103*	*103*		*75.0-131*				
(S) 4-Bromofluorobenzene					*94.1*	*99.1*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*105*	*105*		*70.0-130*				

Method Blank (MB)

(MB) R3442957-2 08/21/19 19:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
cis-1,2-Dichloroethene	U		0.000690	0.00250
Vinyl chloride	U		0.000683	0.00250
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3442957-1 08/21/19 18:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	0.125	0.141	113	73.0-125	
Vinyl chloride	0.125	0.124	99.2	63.0-134	
(S) Toluene-d8			*99.5*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

Method Blank (MB)

(MB) R3443137-2 08/22/19 00:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	0.517	J	0.256	1.00

Method Blank (MB)

(MB) R3443137-2 08/22/19 00:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3443137-1 08/21/19 23:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrolein	125	156	125	10.0-160	
Acetone	125	122	97.3	19.0-160	
Acrylonitrile	125	136	109	55.0-149	
Benzene	25.0	24.2	97.0	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R3443137-1 08/21/19 23:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	25.0	24.3	97.3	73.0-121	
Bromodichloromethane	25.0	26.6	107	75.0-120	
Bromoform	25.0	28.3	113	68.0-132	
Bromomethane	25.0	26.4	106	10.0-160	
n-Butylbenzene	25.0	19.9	79.7	73.0-125	
sec-Butylbenzene	25.0	20.1	80.6	75.0-125	
tert-Butylbenzene	25.0	21.4	85.7	76.0-124	
Carbon tetrachloride	25.0	22.3	89.4	68.0-126	
Chlorobenzene	25.0	24.5	97.8	80.0-121	
2-Chlorotoluene	25.0	22.7	90.6	76.0-123	
Chlorodibromomethane	25.0	26.6	106	77.0-125	
4-Chlorotoluene	25.0	23.7	94.8	75.0-122	
Chloroethane	25.0	24.9	99.4	47.0-150	
Chloroform	25.0	24.5	97.9	73.0-120	
Chloromethane	25.0	23.4	93.7	41.0-142	
1,2-Dibromo-3-Chloropropane	25.0	24.0	95.8	58.0-134	
1,2-Dibromoethane	25.0	27.5	110	80.0-122	
Dibromomethane	25.0	26.8	107	80.0-120	
1,2-Dichlorobenzene	25.0	23.3	93.2	79.0-121	
1,3-Dichlorobenzene	25.0	22.9	91.7	79.0-120	
1,4-Dichlorobenzene	25.0	21.8	87.2	79.0-120	
Dichlorodifluoromethane	25.0	29.0	116	51.0-149	
1,1-Dichloroethane	25.0	24.8	99.1	70.0-126	
1,1-Dichloropropene	25.0	25.3	101	74.0-126	
1,2-Dichloroethane	25.0	25.8	103	70.0-128	
1,1-Dichloroethene	25.0	21.6	86.2	71.0-124	
1,3-Dichloropropane	25.0	27.6	110	80.0-120	
cis-1,2-Dichloroethene	25.0	23.0	91.9	73.0-120	
trans-1,2-Dichloroethene	25.0	21.9	87.7	73.0-120	
1,2-Dichloropropane	25.0	26.0	104	77.0-125	
2,2-Dichloropropane	25.0	18.3	73.4	58.0-130	
cis-1,3-Dichloropropene	25.0	27.1	109	80.0-123	
trans-1,3-Dichloropropene	25.0	28.4	114	78.0-124	
Di-isopropyl ether	25.0	22.1	88.4	58.0-138	
Ethylbenzene	25.0	23.5	93.9	79.0-123	
Isopropylbenzene	25.0	22.5	89.8	76.0-127	
Hexachloro-1,3-butadiene	25.0	20.4	81.6	54.0-138	
p-Isopropyltoluene	25.0	21.6	86.4	76.0-125	
2-Butanone (MEK)	125	151	121	44.0-160	
Methylene Chloride	25.0	23.0	92.0	67.0-120	

Laboratory Control Sample (LCS)

(LCS) R3443137-1 08/21/19 23:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	125	136	109	68.0-142	
Methyl tert-butyl ether	25.0	21.0	84.2	68.0-125	
Naphthalene	25.0	15.9	63.6	54.0-135	
n-Propylbenzene	25.0	21.7	86.7	77.0-124	
Styrene	25.0	25.1	100	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	25.6	102	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	25.8	103	65.0-130	
Tetrachloroethene	25.0	24.5	97.8	72.0-132	
1,2,3-Trichlorobenzene	25.0	16.0	63.9	50.0-138	
Toluene	25.0	24.0	95.9	79.0-120	
1,1,2-Trichlorotrifluoroethane	25.0	20.5	82.1	69.0-132	
1,2,4-Trichlorobenzene	25.0	19.1	76.5	57.0-137	
1,1,1-Trichloroethane	25.0	21.7	87.0	73.0-124	
1,1,2-Trichloroethane	25.0	25.3	101	80.0-120	
1,2,3-Trimethylbenzene	25.0	22.7	91.0	77.0-120	
Trichloroethene	25.0	24.2	97.0	78.0-124	
Trichlorofluoromethane	25.0	23.4	93.5	59.0-147	
1,2,3-Trichloropropane	25.0	28.9	116	73.0-130	
1,2,4-Trimethylbenzene	25.0	22.5	90.1	76.0-121	
1,3,5-Trimethylbenzene	25.0	21.3	85.1	76.0-122	
Vinyl chloride	25.0	24.4	97.5	67.0-131	
Xylenes, Total	75.0	70.4	93.9	79.0-123	
(S) Toluene-d8			*102*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.4*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

Method Blank (MB)

(MB) R3443536-1 08/22/19 16:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Residual Range Organics (RRO)	U		3.33	10.0
Diesel Range Organics (DRO)	U		1.33	4.00
(S) o-Terphenyl	*101*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3443536-2 08/22/19 16:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	40.0	80.0	50.0-150	
(S) o-Terphenyl			*71.5*	*18.0-148*	

L1129818-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-16 08/23/19 16:08 • (MS) R3443772-1 08/23/19 16:21 • (MSD) R3443772-2 08/23/19 16:34

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	54.1	5.41	59.0	52.4	99.0	86.8	1	50.0-150			11.9	20
(S) o-Terphenyl					*98.3*	*100*		*18.0-148*				

Method Blank (MB)

(MB) R3443406-1 08/22/19 17:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Residual Range Organics (RRO)	U		3.33	10.0
Diesel Range Organics (DRO)	U		1.33	4.00
(S) o-Terphenyl	*59.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3443406-2 08/22/19 17:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	42.4	84.8	50.0-150	
(S) o-Terphenyl			*111*	*18.0-148*	

L1130908-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1130908-06 08/23/19 05:56 • (MS) R3443406-3 08/23/19 06:09 • (MSD) R3443406-4 08/23/19 06:22

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 %
Diesel Range Organics (DRO)	50.0	ND	27.0	30.0	54.0	60.0	1	50.0-150			10.5	20
(S) o-Terphenyl					*65.2*	*77.3*		*18.0-148*				

Method Blank (MB)

(MB) R3443345-1 08/22/19 00:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
PCB 1268	U		0.00182	0.0170
(S) Decachlorobiphenyl	*75.4*		*10.0-135*	
(S) Tetrachloro-m-xylene	*78.5*		*10.0-139*	

Laboratory Control Sample (LCS)

(LCS) R3443345-2 08/22/19 00:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.118	70.7	37.0-145	
PCB 1016	0.167	0.121	72.5	36.0-141	
(S) Decachlorobiphenyl			*74.9*	*10.0-135*	
(S) Tetrachloro-m-xylene			*77.0*	*10.0-139*	

L1130148-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1130148-04 08/22/19 14:16 • (MS) R3443345-3 08/22/19 14:29 • (MSD) R3443345-4 08/22/19 14:41

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.197	U	0.138	0.137	70.1	69.5	1	10.0-160			0.858	38
PCB 1016	0.197	U	0.125	0.113	63.5	57.2	1	10.0-160			10.3	37
(S) Decachlorobiphenyl					*58.9*	*54.8*		*10.0-135*				
(S) Tetrachloro-m-xylene					*72.5*	*65.2*		*10.0-139*				

Method Blank (MB)

(MB) R3443346-1 08/22/19 07:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
PCB 1268	U		0.00182	0.0170
(S) Decachlorobiphenyl	*82.1*		*10.0-135*	
(S) Tetrachloro-m-xylene	*85.0*		*10.0-139*	

Laboratory Control Sample (LCS)

(LCS) R3443346-2 08/22/19 07:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.141	84.4	37.0-145	
PCB 1016	0.167	0.144	86.2	36.0-141	
(S) Decachlorobiphenyl			*85.4*	*10.0-135*	
(S) Tetrachloro-m-xylene			*89.5*	*10.0-139*	

L1129818-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-13 08/22/19 09:30 • (MS) R3443346-3 08/22/19 09:42 • (MSD) R3443346-4 08/22/19 09:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.177	U	0.167	0.182	94.6	103	1	10.0-160			8.48	38
PCB 1016	0.177	U	0.196	0.230	111	130	1	10.0-160			15.9	37
(S) Decachlorobiphenyl					*62.0*	*71.0*		*10.0-135*				
(S) Tetrachloro-m-xylene					*65.9*	*76.6*		*10.0-139*				

Method Blank (MB)

(MB) R3443742-1 08/23/19 10:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
PCB 1268	U		0.00182	0.0170
(S) Decachlorobiphenyl	*107*		*10.0-135*	
(S) Tetrachloro-m-xylene	*89.3*		*10.0-139*	

Laboratory Control Sample (LCS)

(LCS) R3443742-2 08/23/19 10:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.173	104	37.0-145	
PCB 1016	0.167	0.162	97.0	36.0-141	
(S) Decachlorobiphenyl			*114*	*10.0-135*	
(S) Tetrachloro-m-xylene			*95.6*	*10.0-139*	

L1129818-34 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-34 08/23/19 13:40 • (MS) R3443742-3 08/23/19 13:54 • (MSD) R3443742-4 08/23/19 14:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.175	U	0.158	0.155	89.8	88.6	1	10.0-160			1.34	38
PCB 1016	0.175	U	0.145	0.134	82.6	76.6	1	10.0-160			7.52	37
(S) Decachlorobiphenyl					*109*	*108*		*10.0-135*				
(S) Tetrachloro-m-xylene					*80.6*	*80.8*		*10.0-139*				

Method Blank (MB)

(MB) R3443671-2 08/22/19 21:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0333
Acenaphthylene	U		0.00671	0.0333
Anthracene	U		0.00632	0.0333
Benzo(a)anthracene	U		0.00428	0.0333
Benzo(b)fluoranthene	U		0.00695	0.0333
Benzo(k)fluoranthene	U		0.00582	0.0333
Benzo(g,h,i)perylene	U		0.00721	0.0333
Benzo(a)pyrene	U		0.00548	0.0333
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0333
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0333
Dibenz(a,h)anthracene	U		0.00821	0.0333
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0333
Fluorene	U		0.00682	0.0333
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0333
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0333
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.0900	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0333
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333
Pyrene	U		0.0123	0.0333

Method Blank (MB)

(MB) R3443671-2 08/22/19 21:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyridine	U		0.0628	0.333
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2-Methylphenol	U		0.00986	0.333
3&4-Methyl Phenol	U		0.00783	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,5-Trichlorophenol	U		0.0104	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*70.3*			*10.0-122*
(S) 2-Fluorobiphenyl	*70.0*			*15.0-120*
(S) p-Terphenyl-d14	*67.3*			*10.0-120*
(S) Phenol-d5	*70.1*			*10.0-120*
(S) 2-Fluorophenol	*77.3*			*12.0-120*
(S) 2,4,6-Tribromophenol	*73.3*			*10.0-127*

Laboratory Control Sample (LCS)

(LCS) R3443671-1 08/22/19 20:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.382	57.4	38.0-120	
Acenaphthylene	0.666	0.394	59.2	40.0-120	
Anthracene	0.666	0.410	61.6	42.0-120	
Benzo(a)anthracene	0.666	0.431	64.7	44.0-120	
Benzo(b)fluoranthene	0.666	0.407	61.1	43.0-120	
Benzo(k)fluoranthene	0.666	0.415	62.3	44.0-120	
Benzo(g,h,i)perylene	0.666	0.404	60.7	43.0-120	
Benzo(a)pyrene	0.666	0.407	61.1	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.366	55.0	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.370	55.6	16.0-120	
Bis(2-chloroisopropyl)ether	0.666	0.342	51.4	23.0-120	

Laboratory Control Sample (LCS)

(LCS) R3443671-1 08/22/19 20:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Bromophenyl-phenylether	0.666	0.416	62.5	40.0-120	
2-Chloronaphthalene	0.666	0.378	56.8	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.411	61.7	40.0-120	
Chrysene	0.666	0.424	63.7	43.0-120	
Dibenz(a,h)anthracene	0.666	0.392	58.9	44.0-120	
3,3-Dichlorobenzidine	1.33	0.767	57.7	28.0-120	
2,4-Dinitrotoluene	0.666	0.446	67.0	45.0-120	
2,6-Dinitrotoluene	0.666	0.416	62.5	42.0-120	
Fluoranthene	0.666	0.412	61.9	44.0-120	
Fluorene	0.666	0.398	59.8	41.0-120	
Hexachlorobenzene	0.666	0.412	61.9	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.423	63.5	15.0-120	
Hexachlorocyclopentadiene	0.666	0.370	55.6	15.0-120	
Hexachloroethane	0.666	0.347	52.1	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.399	59.9	45.0-120	
Isophorone	0.666	0.388	58.3	23.0-120	
Naphthalene	0.666	0.375	56.3	18.0-120	
Nitrobenzene	0.666	0.394	59.2	17.0-120	
n-Nitrosodimethylamine	0.666	0.395	59.3	10.0-125	
n-Nitrosodiphenylamine	0.666	0.396	59.5	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.360	54.1	26.0-120	
Phenanthrene	0.666	0.396	59.5	42.0-120	
Benzylbutyl phthalate	0.666	0.409	61.4	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.395	59.3	41.0-120	
Di-n-butyl phthalate	0.666	0.395	59.3	43.0-120	
Diethyl phthalate	0.666	0.405	60.8	43.0-120	
Dimethyl phthalate	0.666	0.393	59.0	43.0-120	
Di-n-octyl phthalate	0.666	0.395	59.3	40.0-120	
Pyrene	0.666	0.420	63.1	41.0-120	
Pyridine	0.666	0.211	31.7	10.0-120	
1,2,4-Trichlorobenzene	0.666	0.398	59.8	17.0-120	
4-Chloro-3-methylphenol	0.666	0.428	64.3	28.0-120	
2-Chlorophenol	0.666	0.390	58.6	28.0-120	
2-Methylphenol	0.666	0.446	67.0	35.0-120	
3&4-Methyl Phenol	0.666	0.478	71.8	42.0-120	
2,4-Dichlorophenol	0.666	0.444	66.7	25.0-120	
2,4-Dimethylphenol	0.666	0.436	65.5	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.373	56.0	16.0-120	
2,4-Dinitrophenol	0.666	0.226	33.9	10.0-120	
2-Nitrophenol	0.666	0.404	60.7	20.0-120	

Laboratory Control Sample (LCS)

(LCS) R3443671-1 08/22/19 20:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Nitrophenol	0.666	0.414	62.2	27.0-120	
Pentachlorophenol	0.666	0.353	53.0	29.0-120	
Phenol	0.666	0.402	60.4	28.0-120	
2,4,5-Trichlorophenol	0.666	0.455	68.3	38.0-120	
2,4,6-Trichlorophenol	0.666	0.425	63.8	37.0-120	
(S) Nitrobenzene-d5			*59.5*	*10.0-122*	
(S) 2-Fluorobiphenyl			*59.5*	*15.0-120*	
(S) p-Terphenyl-d14			*54.1*	*10.0-120*	
(S) Phenol-d5			*63.1*	*10.0-120*	
(S) 2-Fluorophenol			*67.4*	*12.0-120*	
(S) 2,4,6-Tribromophenol			*72.1*	*10.0-127*	

L1129716-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129716-07 08/23/19 02:44 • (MS) R3443671-3 08/23/19 03:07 • (MSD) R3443671-4 08/23/19 03:30

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	0.666	ND	0.314	0.318	47.1	47.7	1	18.0-120			1.27	32
Acenaphthylene	0.666	ND	0.320	0.320	48.0	48.0	1	25.0-120			0.000	32
Anthracene	0.666	ND	0.371	0.363	55.7	54.5	1	22.0-120			2.18	29
Benzo(a)anthracene	0.666	ND	0.393	0.381	59.0	57.2	1	25.0-120			3.10	29
Benzo(b)fluoranthene	0.666	ND	0.367	0.347	55.1	52.1	1	19.0-122			5.60	31
Benzo(k)fluoranthene	0.666	ND	0.339	0.322	50.9	48.3	1	23.0-120			5.14	30
Benzo(g,h,i)perylene	0.666	ND	0.324	0.312	48.6	46.8	1	10.0-120			3.77	33
Benzo(a)pyrene	0.666	ND	0.348	0.331	52.3	49.7	1	24.0-120			5.01	30
Bis(2-chlorethoxy)methane	0.666	ND	0.287	0.279	43.1	41.9	1	10.0-120			2.83	34
Bis(2-chloroethyl)ether	0.666	ND	0.284	0.269	42.6	40.4	1	10.0-120			5.42	40
Bis(2-chloroisopropyl)ether	0.666	ND	0.280	0.274	42.0	41.1	1	10.0-120			2.17	40
4-Bromophenyl-phenylether	0.666	ND	0.368	0.353	55.3	53.0	1	27.0-120			4.16	30
2-Chloronaphthalene	0.666	ND	0.281	0.296	42.2	44.4	1	20.0-120			5.20	32
4-Chlorophenyl-phenylether	0.666	ND	0.344	0.342	51.7	51.4	1	24.0-120			0.583	29
Chrysene	0.666	0.0749	0.422	0.410	52.1	50.3	1	21.0-120			2.88	29
Dibenz(a,h)anthracene	0.666	ND	0.315	0.307	47.3	46.1	1	10.0-120			2.57	32
3,3-Dichlorobenzidine	1.33	ND	0.187	0.220	14.1	16.5	1	10.0-120			16.2	34
2,4-Dinitrotoluene	0.666	ND	0.432	0.393	64.9	59.0	1	30.0-120			9.45	31
2,6-Dinitrotoluene	0.666	ND	0.384	0.356	57.7	53.5	1	25.0-120			7.57	31
Fluoranthene	0.666	0.0656	0.432	0.421	55.0	53.4	1	18.0-126			2.58	32
Fluorene	0.666	ND	0.363	0.341	54.5	51.2	1	25.0-120			6.25	30
Hexachlorobenzene	0.666	ND	0.362	0.347	54.4	52.1	1	27.0-120			4.23	28

L1129716-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129716-07 08/23/19 02:44 • (MS) R3443671-3 08/23/19 03:07 • (MSD) R3443671-4 08/23/19 03:30

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 %
Hexachloro-1,3-butadiene	0.666	ND	0.273	0.312	41.0	46.8	1	10.0-120			13.3	38
Hexachlorocyclopentadiene	0.666	ND	0.0977	0.128	14.7	19.2	1	10.0-120			26.8	40
Hexachloroethane	0.666	ND	0.250	0.280	37.5	42.0	1	10.0-120			11.3	40
Indeno(1,2,3-cd)pyrene	0.666	ND	0.321	0.312	48.2	46.8	1	10.0-120			2.84	32
Isophorone	0.666	ND	0.320	0.299	48.0	44.9	1	13.0-120			6.79	34
Naphthalene	0.666	0.194	0.403	0.486	31.4	43.8	1	10.0-120			18.7	35
Nitrobenzene	0.666	ND	0.284	0.288	42.6	43.2	1	10.0-120			1.40	36
n-Nitrosodimethylamine	0.666	ND	0.398	0.343	59.8	51.5	1	10.0-127			14.8	40
n-Nitrosodiphenylamine	0.666	ND	0.316	0.336	47.4	50.5	1	17.0-120			6.13	29
n-Nitrosodi-n-propylamine	0.666	ND	0.307	0.291	46.1	43.7	1	10.0-120			5.35	37
Phenanthrene	0.666	0.396	0.652	0.741	38.4	51.8	1	17.0-120			12.8	31
Benzylbutyl phthalate	0.666	ND	0.379	0.359	56.9	53.9	1	23.0-120			5.42	30
Bis(2-ethylhexyl)phthalate	0.666	ND	0.359	0.340	53.9	51.1	1	17.0-126			5.44	30
Di-n-butyl phthalate	0.666	ND	0.357	0.352	53.6	52.9	1	30.0-120			1.41	29
Diethyl phthalate	0.666	ND	0.370	0.344	55.6	51.7	1	26.0-120			7.28	28
Dimethyl phthalate	0.666	ND	0.346	0.322	52.0	48.3	1	25.0-120			7.19	29
Di-n-octyl phthalate	0.666	ND	0.367	0.344	55.1	51.7	1	21.0-123			6.47	29
Pyrene	0.666	0.0351	0.388	0.380	53.0	51.8	1	16.0-121			2.08	32
Pyridine	0.666	ND	0.257	0.238	38.6	35.7	1	10.0-120			7.68	40
1,2,4-Trichlorobenzene	0.666	ND	0.267	0.285	40.1	42.8	1	12.0-120			6.52	37
4-Chloro-3-methylphenol	0.666	ND	0.399	0.374	59.9	56.2	1	15.0-120			6.47	30
2-Chlorophenol	0.666	ND	0.331	0.300	49.7	45.0	1	15.0-120			9.83	37
2-Methylphenol	0.666	ND	0.441	0.374	66.2	56.2	1	11.0-120			16.4	40
3&4-Methyl Phenol	0.666	ND	0.443	0.373	66.5	56.0	1	12.0-123			17.2	38
2,4-Dichlorophenol	0.666	ND	0.368	0.347	55.3	52.1	1	20.0-120			5.87	31
2,4-Dimethylphenol	0.666	ND	0.318	0.307	47.7	46.1	1	10.0-120			3.52	33
4,6-Dinitro-2-methylphenol	0.666	ND	0.403	0.392	60.5	58.9	1	10.0-120			2.77	39
2,4-Dinitrophenol	0.666	ND	0.395	0.357	59.3	53.6	1	10.0-121			10.1	40
2-Nitrophenol	0.666	ND	0.318	0.321	47.7	48.2	1	12.0-120			0.939	39
4-Nitrophenol	0.666	ND	0.402	0.369	60.4	55.4	1	10.0-137			8.56	32
Pentachlorophenol	0.666	ND	0.376	0.372	56.5	55.9	1	10.0-160			1.07	31
Phenol	0.666	ND	0.400	0.340	60.1	51.1	1	12.0-120			16.2	38
2,4,5-Trichlorophenol	0.666	ND	0.416	0.384	62.5	57.7	1	20.0-120			8.00	30
2,4,6-Trichlorophenol	0.666	ND	0.349	0.360	52.4	54.1	1	19.0-120			3.10	32
(S) Nitrobenzene-d5					*44.4*	*45.3*		*10.0-122*				
(S) 2-Fluorobiphenyl					*42.9*	*44.1*		*15.0-120*				
(S) p-Terphenyl-d14					*48.0*	*46.2*		*10.0-120*				
(S) Phenol-d5					*60.1*	*49.4*		*10.0-120*				
(S) 2-Fluorophenol					*58.4*	*52.4*		*12.0-120*				
(S) 2,4,6-Tribromophenol					*63.8*	*61.6*		*10.0-127*				

Method Blank (MB)

(MB) R3443725-2 08/23/19 02:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0333
Acenaphthylene	U		0.00671	0.0333
Anthracene	U		0.00632	0.0333
Benzo(a)anthracene	U		0.00428	0.0333
Benzo(b)fluoranthene	U		0.00695	0.0333
Benzo(k)fluoranthene	U		0.00582	0.0333
Benzo(g,h,i)perylene	U		0.00721	0.0333
Benzo(a)pyrene	U		0.00548	0.0333
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0333
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0333
Dibenz(a,h)anthracene	U		0.00821	0.0333
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0333
Fluorene	U		0.00682	0.0333
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0333
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0333
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.0900	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0333
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	0.0312	J	0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333
Pyrene	U		0.0123	0.0333

Method Blank (MB)

(MB) R3443725-2 08/23/19 02:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyridine	U		0.0628	0.333
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2-Methylphenol	U		0.00986	0.333
3&4-Methyl Phenol	U		0.00783	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,5-Trichlorophenol	U		0.0104	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*57.1*			*10.0-122*
(S) 2-Fluorobiphenyl	*59.5*			*15.0-120*
(S) p-Terphenyl-d14	*65.8*			*10.0-120*
(S) Phenol-d5	*56.6*			*10.0-120*
(S) 2-Fluorophenol	*60.8*			*12.0-120*
(S) 2,4,6-Tribromophenol	*62.9*			*10.0-127*

Laboratory Control Sample (LCS)

(LCS) R3443725-1 08/23/19 02:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.433	65.0	38.0-120	
Acenaphthylene	0.666	0.441	66.2	40.0-120	
Anthracene	0.666	0.439	65.9	42.0-120	
Benzo(a)anthracene	0.666	0.462	69.4	44.0-120	
Benzo(b)fluoranthene	0.666	0.420	63.1	43.0-120	
Benzo(k)fluoranthene	0.666	0.430	64.6	44.0-120	
Benzo(g,h,i)perylene	0.666	0.431	64.7	43.0-120	
Benzo(a)pyrene	0.666	0.418	62.8	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.419	62.9	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.446	67.0	16.0-120	
Bis(2-chloroisopropyl)ether	0.666	0.418	62.8	23.0-120	

Laboratory Control Sample (LCS)

(LCS) R3443725-1 08/23/19 02:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Bromophenyl-phenylether	0.666	0.470	70.6	40.0-120	
2-Chloronaphthalene	0.666	0.447	67.1	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.460	69.1	40.0-120	
Chrysene	0.666	0.440	66.1	43.0-120	
Dibenz(a,h)anthracene	0.666	0.411	61.7	44.0-120	
3,3-Dichlorobenzidine	1.33	0.827	62.2	28.0-120	
2,4-Dinitrotoluene	0.666	0.451	67.7	45.0-120	
2,6-Dinitrotoluene	0.666	0.430	64.6	42.0-120	
Fluoranthene	0.666	0.449	67.4	44.0-120	
Fluorene	0.666	0.447	67.1	41.0-120	
Hexachlorobenzene	0.666	0.482	72.4	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.445	66.8	15.0-120	
Hexachlorocyclopentadiene	0.666	0.418	62.8	15.0-120	
Hexachloroethane	0.666	0.420	63.1	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.418	62.8	45.0-120	
Isophorone	0.666	0.425	63.8	23.0-120	
Naphthalene	0.666	0.426	64.0	18.0-120	
Nitrobenzene	0.666	0.427	64.1	17.0-120	
n-Nitrosodimethylamine	0.666	0.461	69.2	10.0-125	
n-Nitrosodiphenylamine	0.666	0.446	67.0	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.421	63.2	26.0-120	
Phenanthrene	0.666	0.438	65.8	42.0-120	
Benzylbutyl phthalate	0.666	0.453	68.0	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.449	67.4	41.0-120	
Di-n-butyl phthalate	0.666	0.458	68.8	43.0-120	
Diethyl phthalate	0.666	0.449	67.4	43.0-120	
Dimethyl phthalate	0.666	0.485	72.8	43.0-120	
Di-n-octyl phthalate	0.666	0.449	67.4	40.0-120	
Pyrene	0.666	0.442	66.4	41.0-120	
Pyridine	0.666	0.227	34.1	10.0-120	
1,2,4-Trichlorobenzene	0.666	0.446	67.0	17.0-120	
4-Chloro-3-methylphenol	0.666	0.434	65.2	28.0-120	
2-Chlorophenol	0.666	0.456	68.5	28.0-120	
2-Methylphenol	0.666	0.480	72.1	35.0-120	
3&4-Methyl Phenol	0.666	0.522	78.4	42.0-120	
2,4-Dichlorophenol	0.666	0.453	68.0	25.0-120	
2,4-Dimethylphenol	0.666	0.394	59.2	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.397	59.6	16.0-120	
2,4-Dinitrophenol	0.666	0.335	50.3	10.0-120	
2-Nitrophenol	0.666	0.436	65.5	20.0-120	

Laboratory Control Sample (LCS)

(LCS) R3443725-1 08/23/19 02:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Nitrophenol	0.666	0.436	65.5	27.0-120	
Pentachlorophenol	0.666	0.446	67.0	29.0-120	
Phenol	0.666	0.439	65.9	28.0-120	
2,4,5-Trichlorophenol	0.666	0.490	73.6	38.0-120	
2,4,6-Trichlorophenol	0.666	0.459	68.9	37.0-120	
(S) Nitrobenzene-d5			*64.3*	*10.0-122*	
(S) 2-Fluorobiphenyl			*66.1*	*15.0-120*	
(S) p-Terphenyl-d14			*70.0*	*10.0-120*	
(S) Phenol-d5			*66.8*	*10.0-120*	
(S) 2-Fluorophenol			*71.5*	*12.0-120*	
(S) 2,4,6-Tribromophenol			*78.8*	*10.0-127*	

L1129700-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129700-03 08/23/19 09:37 • (MS) R3443725-3 08/23/19 10:00 • (MSD) R3443725-4 08/23/19 10:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.770	ND	0.465	0.480	60.4	62.3	1	18.0-120			3.18	32
Acenaphthylene	0.770	ND	0.486	0.501	63.1	65.0	1	25.0-120			3.05	32
Anthracene	0.770	ND	0.483	0.486	62.8	63.1	1	22.0-120			0.477	29
Benzo(a)anthracene	0.770	ND	0.510	0.533	66.2	69.2	1	25.0-120			4.43	29
Benzo(b)fluoranthene	0.770	ND	0.473	0.483	61.4	62.8	1	19.0-122			2.18	31
Benzo(k)fluoranthene	0.770	ND	0.449	0.465	58.3	60.4	1	23.0-120			3.54	30
Benzo(g,h,i)perylene	0.770	ND	0.417	0.438	54.2	56.9	1	10.0-120			4.86	33
Benzo(a)pyrene	0.770	ND	0.449	0.466	58.3	60.5	1	24.0-120			3.79	30
Bis(2-chlorethoxy)methane	0.770	ND	0.451	0.453	58.6	58.9	1	10.0-120			0.512	34
Bis(2-chloroethyl)ether	0.770	ND	0.468	0.486	60.8	63.1	1	10.0-120			3.64	40
Bis(2-chloroisopropyl)ether	0.770	ND	0.446	0.449	58.0	58.3	1	10.0-120			0.517	40
4-Bromophenyl-phenylether	0.770	ND	0.495	0.510	64.3	66.2	1	27.0-120			2.99	30
2-Chloronaphthalene	0.770	ND	0.475	0.491	61.7	63.8	1	20.0-120			3.35	32
4-Chlorophenyl-phenylether	0.770	ND	0.479	0.501	62.2	65.0	1	24.0-120			4.49	29
Chrysene	0.770	ND	0.484	0.502	62.9	65.2	1	21.0-120			3.52	29
Dibenz(a,h)anthracene	0.770	ND	0.416	0.429	54.1	55.7	1	10.0-120			3.01	32
3,3-Dichlorobenzidine	1.54	ND	0.298	0.439	19.4	28.6	1	10.0-120		J3	38.2	34
2,4-Dinitrotoluene	0.770	ND	0.465	0.495	60.4	64.3	1	30.0-120			6.27	31
2,6-Dinitrotoluene	0.770	ND	0.455	0.484	59.2	62.9	1	25.0-120			6.15	31
Fluoranthene	0.770	ND	0.518	0.518	67.3	67.3	1	18.0-126			0.000	32
Fluorene	0.770	ND	0.474	0.492	61.6	64.0	1	25.0-120			3.83	30
Hexachlorobenzene	0.770	ND	0.502	0.517	65.2	67.1	1	27.0-120			2.95	28

L1129700-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129700-03 08/23/19 09:37 • (MS) R3443725-3 08/23/19 10:00 • (MSD) R3443725-4 08/23/19 10:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	0.770	ND	0.487	0.504	63.2	65.5	1	10.0-120			3.50	38
Hexachlorocyclopentadiene	0.770	ND	0.342	0.338	44.4	43.8	1	10.0-120			1.36	40
Hexachloroethane	0.770	ND	0.450	0.455	58.4	59.2	1	10.0-120			1.28	40
Indeno(1,2,3-cd)pyrene	0.770	ND	0.418	0.439	54.4	57.1	1	10.0-120			4.85	32
Isophorone	0.770	ND	0.457	0.465	59.3	60.4	1	13.0-120			1.76	34
Naphthalene	0.770	ND	0.473	0.473	61.4	61.4	1	10.0-120			0.000	35
Nitrobenzene	0.770	ND	0.462	0.465	60.1	60.4	1	10.0-120			0.499	36
n-Nitrosodimethylamine	0.770	ND	0.475	0.533	61.7	69.2	1	10.0-127			11.5	40
n-Nitrosodiphenylamine	0.770	ND	0.320	0.368	41.6	47.7	1	17.0-120			13.8	29
n-Nitrosodi-n-propylamine	0.770	ND	0.460	0.459	59.8	59.6	1	10.0-120			0.252	37
Phenanthrene	0.770	ND	0.470	0.472	61.1	61.3	1	17.0-120			0.245	31
Benzylbutyl phthalate	0.770	ND	0.514	0.533	66.8	69.2	1	23.0-120			3.53	30
Bis(2-ethylhexyl)phthalate	0.770	ND	0.490	0.520	63.7	67.6	1	17.0-126			5.95	30
Di-n-butyl phthalate	0.770	ND	0.498	0.511	64.7	66.4	1	30.0-120			2.52	29
Diethyl phthalate	0.770	ND	0.470	0.487	61.1	63.2	1	26.0-120			3.38	28
Dimethyl phthalate	0.770	ND	0.464	0.480	60.2	62.3	1	25.0-120			3.43	29
Di-n-octyl phthalate	0.770	ND	0.506	0.535	65.8	69.5	1	21.0-123			5.55	29
Pyrene	0.770	ND	0.510	0.526	66.2	68.3	1	16.0-121			3.12	32
Pyridine	0.770	ND	0.437	0.434	56.8	56.3	1	10.0-120			0.797	40
1,2,4-Trichlorobenzene	0.770	ND	0.491	0.487	63.8	63.2	1	12.0-120			0.946	37
4-Chloro-3-methylphenol	0.770	ND	0.445	0.466	57.8	60.5	1	15.0-120			4.57	30
2-Chlorophenol	0.770	ND	0.453	0.472	58.9	61.3	1	15.0-120			4.00	37
2-Methylphenol	0.770	ND	0.410	0.444	53.3	57.7	1	11.0-120			7.85	40
3&4-Methyl Phenol	0.770	ND	0.409	0.455	53.2	59.2	1	12.0-123			10.7	38
2,4-Dichlorophenol	0.770	ND	0.468	0.484	60.8	62.9	1	20.0-120			3.40	31
2,4-Dimethylphenol	0.770	ND	0.262	0.310	34.1	40.2	1	10.0-120			16.6	33
4,6-Dinitro-2-methylphenol	0.770	ND	0.417	0.425	54.2	55.3	1	10.0-120			1.92	39
2,4-Dinitrophenol	0.770	ND	0.333	0.373	43.2	48.5	1	10.0-121			11.5	40
2-Nitrophenol	0.770	ND	0.502	0.499	65.2	64.9	1	12.0-120			0.462	39
4-Nitrophenol	0.770	ND	0.474	0.517	61.6	67.1	1	10.0-137			8.63	32
Pentachlorophenol	0.770	ND	0.549	0.577	71.3	74.9	1	10.0-160			4.93	31
Phenol	0.770	ND	0.438	0.455	56.9	59.2	1	12.0-120			3.88	38
2,4,5-Trichlorophenol	0.770	ND	0.519	0.550	67.4	71.5	1	20.0-120			5.84	30
2,4,6-Trichlorophenol	0.770	ND	0.450	0.489	58.4	63.5	1	19.0-120			8.37	32
(S) Nitrobenzene-d5					*61.6*	*61.9*		*10.0-122*				
(S) 2-Fluorobiphenyl					*60.7*	*61.9*		*15.0-120*				
(S) p-Terphenyl-d14					*65.2*	*66.1*		*10.0-120*				
(S) Phenol-d5					*60.8*	*61.3*		*10.0-120*				
(S) 2-Fluorophenol					*62.8*	*62.2*		*12.0-120*				

L1129700-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129700-03 08/23/19 09:37 • (MS) R3443725-3 08/23/19 10:00 • (MSD) R3443725-4 08/23/19 10:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) 2,4,6-Tribromophenol					*73.6*	*76.3*		*10.0-127*				

Method Blank (MB)

(MB) R3443072-2 08/22/19 02:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*127*			*14.0-149*
(S) 2-Fluorobiphenyl	*103*			*34.0-125*
(S) p-Terphenyl-d14	*119*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3443072-1 08/22/19 01:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0838	105	50.0-126	
Acenaphthene	0.0800	0.0830	104	50.0-120	
Acenaphthylene	0.0800	0.0892	112	50.0-120	
Benzo(a)anthracene	0.0800	0.0824	103	45.0-120	
Benzo(a)pyrene	0.0800	0.0735	91.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0792	99.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0731	91.4	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0783	97.9	49.0-125	
Chrysene	0.0800	0.0761	95.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0691	86.4	47.0-125	
Fluoranthene	0.0800	0.0871	109	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3443072-1 08/22/19 01:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0815	102	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0718	89.8	46.0-125	
Naphthalene	0.0800	0.0831	104	50.0-120	
Phenanthrene	0.0800	0.0800	100	47.0-120	
Pyrene	0.0800	0.0875	109	43.0-123	
1-Methylnaphthalene	0.0800	0.0822	103	51.0-121	
2-Methylnaphthalene	0.0800	0.0759	94.9	50.0-120	
2-Chloronaphthalene	0.0800	0.0778	97.3	50.0-120	
(S) Nitrobenzene-d5			*119*	*14.0-149*	
(S) 2-Fluorobiphenyl			*101*	*34.0-125*	
(S) p-Terphenyl-d14			*109*	*23.0-120*	

L1129731-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129731-02 08/22/19 03:22 • (MS) R3443072-3 08/22/19 03:43 • (MSD) R3443072-4 08/22/19 04:04

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 %
Anthracene	0.0800	ND	0.0780	0.0774	96.2	95.4	1	10.0-145			0.772	30
Acenaphthene	0.0800	ND	0.0777	0.0769	97.1	96.1	1	14.0-127			1.03	27
Acenaphthylene	0.0800	ND	0.0831	0.0832	104	104	1	21.0-124			0.120	25
Benzo(a)anthracene	0.0800	0.00765	0.0796	0.0790	89.9	89.2	1	10.0-139			0.757	30
Benzo(a)pyrene	0.0800	0.00742	0.0766	0.0739	86.5	83.1	1	10.0-141			3.59	31
Benzo(b)fluoranthene	0.0800	0.0108	0.0737	0.0707	78.6	74.9	1	10.0-140			4.16	36
Benzo(g,h,i)perylene	0.0800	ND	0.0759	0.0731	87.8	84.3	1	10.0-140			3.76	33
Benzo(k)fluoranthene	0.0800	ND	0.0783	0.0754	93.1	89.5	1	10.0-137			3.77	31
Chrysene	0.0800	0.00832	0.0751	0.0742	83.5	82.4	1	10.0-145			1.21	30
Dibenz(a,h)anthracene	0.0800	ND	0.0687	0.0680	84.1	83.2	1	10.0-132			1.02	31
Fluoranthene	0.0800	0.0127	0.0813	0.0837	85.8	88.8	1	10.0-153			2.91	33
Fluorene	0.0800	ND	0.0750	0.0761	93.8	95.1	1	11.0-130			1.46	29
Indeno(1,2,3-cd)pyrene	0.0800	ND	0.0730	0.0718	85.7	84.2	1	10.0-137			1.66	32
Naphthalene	0.0800	ND	0.0768	0.0768	96.0	96.0	1	10.0-135			0.000	27
Phenanthrene	0.0800	ND	0.0754	0.0760	87.4	88.1	1	10.0-144			0.793	31
Pyrene	0.0800	0.0136	0.0870	0.0882	91.8	93.3	1	10.0-148			1.37	35
1-Methylnaphthalene	0.0800	ND	0.0755	0.0761	94.4	95.1	1	10.0-142			0.792	28
2-Methylnaphthalene	0.0800	ND	0.0718	0.0714	86.5	86.0	1	10.0-137			0.559	28
2-Chloronaphthalene	0.0800	ND	0.0712	0.0716	89.0	89.5	1	29.0-120			0.560	24
(S) Nitrobenzene-d5					*122*	*124*		*14.0-149*				
(S) 2-Fluorobiphenyl					*98.3*	*99.5*		*34.0-125*				
(S) p-Terphenyl-d14					*99.9*	*104*		*23.0-120*				

Method Blank (MB)

(MB) R3443270-2 08/22/19 12:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	0.000732	J	0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*84.4*			*14.0-149*
(S) 2-Fluorobiphenyl	*84.7*			*34.0-125*
(S) p-Terphenyl-d14	*89.6*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3443270-1 08/22/19 11:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0728	91.0	50.0-126	
Acenaphthene	0.0800	0.0717	89.6	50.0-120	
Acenaphthylene	0.0800	0.0770	96.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0768	96.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0684	85.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0747	93.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0782	97.8	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0793	99.1	49.0-125	
Chrysene	0.0800	0.0731	91.4	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0822	103	47.0-125	
Fluoranthene	0.0800	0.0716	89.5	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3443270-1 08/22/19 11:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0726	90.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0796	99.5	46.0-125	
Naphthalene	0.0800	0.0779	97.4	50.0-120	
Phenanthrene	0.0800	0.0736	92.0	47.0-120	
Pyrene	0.0800	0.0715	89.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0770	96.3	51.0-121	
2-Methylnaphthalene	0.0800	0.0728	91.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0666	83.3	50.0-120	
(S) Nitrobenzene-d5			*94.7*	*14.0-149*	
(S) 2-Fluorobiphenyl			*92.7*	*34.0-125*	
(S) p-Terphenyl-d14			*97.0*	*23.0-120*	

L1129818-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-05 08/22/19 12:41 • (MS) R3443270-3 08/22/19 13:03 • (MSD) R3443270-4 08/22/19 13:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0824	0.00164	0.0667	0.0656	78.9	77.6	1	10.0-145			1.56	30
Acenaphthene	0.0824	0.000758	0.0656	0.0644	78.7	77.2	1	14.0-127			1.90	27
Acenaphthylene	0.0824	U	0.0687	0.0676	83.4	82.0	1	21.0-124			1.66	25
Benzo(a)anthracene	0.0824	0.0138	0.0808	0.0884	81.3	90.5	1	10.0-139			9.01	30
Benzo(a)pyrene	0.0824	0.0210	0.0879	0.0983	81.1	93.8	1	10.0-141			11.2	31
Benzo(b)fluoranthene	0.0824	0.0303	0.0962	0.111	80.0	98.3	1	10.0-140			14.5	36
Benzo(g,h,i)perylene	0.0824	0.0264	0.0963	0.114	84.9	107	1	10.0-140			17.1	33
Benzo(k)fluoranthene	0.0824	0.00899	0.0750	0.0772	80.1	82.7	1	10.0-137			2.84	31
Chrysene	0.0824	0.0154	0.0819	0.0879	80.7	88.0	1	10.0-145			7.04	30
Dibenz(a,h)anthracene	0.0824	0.00555	0.0765	0.0817	86.0	92.4	1	10.0-132			6.64	31
Fluoranthene	0.0824	0.0201	0.0848	0.0913	78.5	86.4	1	10.0-153			7.37	33
Fluorene	0.0824	U	0.0651	0.0639	79.0	77.5	1	11.0-130			1.92	29
Indeno(1,2,3-cd)pyrene	0.0824	0.0175	0.0881	0.0982	85.6	97.9	1	10.0-137			10.8	32
Naphthalene	0.0824	U	0.0705	0.0726	85.5	88.1	1	10.0-135			3.02	27
Phenanthrene	0.0824	0.00823	0.0739	0.0747	79.6	80.6	1	10.0-144			1.11	31
Pyrene	0.0824	0.0219	0.0889	0.0980	81.3	92.3	1	10.0-148			9.70	35
1-Methylnaphthalene	0.0824	U	0.0697	0.0709	84.5	86.0	1	10.0-142			1.76	28
2-Methylnaphthalene	0.0824	U	0.0659	0.0714	80.0	86.6	1	10.0-137			7.95	28
2-Chloronaphthalene	0.0824	U	0.0606	0.0603	73.5	73.1	1	29.0-120			0.512	24
(S) Nitrobenzene-d5					*86.0*	*83.7*		*14.0-149*				
(S) 2-Fluorobiphenyl					*86.8*	*84.5*		*34.0-125*				
(S) p-Terphenyl-d14					*92.0*	*91.0*		*23.0-120*				

Method Blank (MB)

(MB) R3443256-2 08/22/19 13:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*124*			*14.0-149*
(S) 2-Fluorobiphenyl	*99.5*			*34.0-125*
(S) p-Terphenyl-d14	*110*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3443256-1 08/22/19 12:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0737	92.1	50.0-126	
Acenaphthene	0.0800	0.0733	91.6	50.0-120	
Acenaphthylene	0.0800	0.0791	98.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0714	89.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0639	79.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0666	83.3	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0643	80.4	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0706	88.3	49.0-125	
Chrysene	0.0800	0.0659	82.4	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0624	78.0	47.0-125	
Fluoranthene	0.0800	0.0735	91.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3443256-1 08/22/19 12:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0721	90.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0641	80.1	46.0-125	
Naphthalene	0.0800	0.0726	90.8	50.0-120	
Phenanthrene	0.0800	0.0699	87.4	47.0-120	
Pyrene	0.0800	0.0713	89.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0713	89.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0681	85.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0678	84.8	50.0-120	
(S) Nitrobenzene-d5			*121*	*14.0-149*	
(S) 2-Fluorobiphenyl			*96.6*	*34.0-125*	
(S) p-Terphenyl-d14			*101*	*23.0-120*	

L1129818-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-19 08/22/19 13:32 • (MS) R3443256-3 08/22/19 13:53 • (MSD) R3443256-4 08/22/19 14:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0819	0.00271	0.0821	0.0831	96.9	98.2	1	10.0-145			1.24	30
Acenaphthene	0.0819	0.00223	0.0806	0.0809	95.8	96.2	1	14.0-127			0.380	27
Acenaphthylene	0.0819	U	0.0831	0.0831	102	102	1	21.0-124			0.000	25
Benzo(a)anthracene	0.0819	0.0346	0.125	0.148	110	139	1	10.0-139			17.2	30
Benzo(a)pyrene	0.0819	0.0485	0.139	0.168	111	146	1	10.0-141		J5	18.7	31
Benzo(b)fluoranthene	0.0819	0.0631	0.160	0.202	118	169	1	10.0-140		J5	23.2	36
Benzo(g,h,i)perylene	0.0819	0.0378	0.122	0.145	103	131	1	10.0-140			17.6	33
Benzo(k)fluoranthene	0.0819	0.0272	0.105	0.115	95.5	107	1	10.0-137			8.37	31
Chrysene	0.0819	0.0457	0.132	0.159	105	138	1	10.0-145			18.3	30
Dibenz(a,h)anthracene	0.0819	0.00884	0.0811	0.0888	88.3	97.7	1	10.0-132			9.03	31
Fluoranthene	0.0819	0.0600	0.164	0.199	127	169	1	10.0-153		J5	19.2	33
Fluorene	0.0819	0.000850	0.0774	0.0770	93.5	93.0	1	11.0-130			0.531	29
Indeno(1,2,3-cd)pyrene	0.0819	0.0302	0.114	0.130	102	122	1	10.0-137			13.4	32
Naphthalene	0.0819	U	0.0783	0.0760	95.6	92.9	1	10.0-135			2.92	27
Phenanthrene	0.0819	0.0218	0.104	0.118	101	117	1	10.0-144			12.0	31
Pyrene	0.0819	0.0651	0.167	0.204	124	169	1	10.0-148		J5	19.9	35
1-Methylnaphthalene	0.0819	U	0.0765	0.0750	93.5	91.6	1	10.0-142			2.03	28
2-Methylnaphthalene	0.0819	U	0.0730	0.0718	89.1	87.8	1	10.0-137			1.55	28
2-Chloronaphthalene	0.0819	U	0.0713	0.0712	87.1	87.0	1	29.0-120			0.144	24
(S) Nitrobenzene-d5					*124*	*124*		*14.0-149*				
(S) 2-Fluorobiphenyl					*99.2*	*98.8*		*34.0-125*				
(S) p-Terphenyl-d14					*103*	*102*		*23.0-120*				

Method Blank (MB)

(MB) R3443544-2 08/22/19 22:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*79.1*			*14.0-149*
(S) 2-Fluorobiphenyl	*86.9*			*34.0-125*
(S) p-Terphenyl-d14	*85.4*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3443544-1 08/22/19 22:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0682	85.3	50.0-126	
Acenaphthene	0.0800	0.0636	79.5	50.0-120	
Acenaphthylene	0.0800	0.0660	82.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0657	82.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0606	75.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0667	83.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0656	82.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0653	81.6	49.0-125	
Chrysene	0.0800	0.0657	82.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0660	82.5	47.0-125	
Fluoranthene	0.0800	0.0742	92.8	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3443544-1 08/22/19 22:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0675	84.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0665	83.1	46.0-125	
Naphthalene	0.0800	0.0598	74.8	50.0-120	
Phenanthrene	0.0800	0.0648	81.0	47.0-120	
Pyrene	0.0800	0.0631	78.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0684	85.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0660	82.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0622	77.8	50.0-120	
(S) Nitrobenzene-d5			*79.5*	*14.0-149*	
(S) 2-Fluorobiphenyl			*85.5*	*34.0-125*	
(S) p-Terphenyl-d14			*84.3*	*23.0-120*	

L1129818-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1129818-30 08/23/19 01:50 • (MS) R3443544-3 08/23/19 02:11 • (MSD) R3443544-4 08/23/19 02:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0806	0.0376	0.0983	0.103	75.2	80.9	1	10.0-145			4.51	30
Acenaphthene	0.0806	0.0149	0.0824	0.0835	83.6	85.0	1	14.0-127			1.34	27
Acenaphthylene	0.0806	U	0.0662	0.0651	82.1	80.7	1	21.0-124			1.69	25
Benzo(a)anthracene	0.0806	0.308	0.365	0.462	70.0	190	1	10.0-139		J5	23.4	30
Benzo(a)pyrene	0.0806	0.364	0.408	0.549	55.0	230	1	10.0-141		V	29.5	31
Benzo(b)fluoranthene	0.0806	0.528	0.537	0.794	11.3	330	1	10.0-140		J3 V	38.6	36
Benzo(g,h,i)perylene	0.0806	0.322	0.357	0.466	43.7	179	1	10.0-140		J5	26.5	33
Benzo(k)fluoranthene	0.0806	0.153	0.226	0.230	90.0	95.0	1	10.0-137			1.77	31
Chrysene	0.0806	0.304	0.406	0.533	126	284	1	10.0-145		J5	27.0	30
Dibenz(a,h)anthracene	0.0806	0.0812	0.128	0.158	58.1	95.6	1	10.0-132			21.1	31
Fluoranthene	0.0806	0.488	0.575	0.695	107	256	1	10.0-153		V	18.9	33
Fluorene	0.0806	0.00915	0.0768	0.0746	83.9	81.2	1	11.0-130			2.93	29
Indeno(1,2,3-cd)pyrene	0.0806	0.233	0.274	0.360	51.3	158	1	10.0-137		J5	27.0	32
Naphthalene	0.0806	0.00204	0.0618	0.0597	74.1	71.5	1	10.0-135			3.49	27
Phenanthrene	0.0806	0.190	0.307	0.319	146	160	1	10.0-144	J5	J5	3.54	31
Pyrene	0.0806	0.546	0.614	0.749	83.8	251	1	10.0-148		V	19.8	35
1-Methylnaphthalene	0.0806	U	0.0690	0.0669	85.5	83.0	1	10.0-142			2.97	28
2-Methylnaphthalene	0.0806	0.00211	0.0671	0.0651	80.6	78.1	1	10.0-137			3.05	28
2-Chloronaphthalene	0.0806	U	0.0611	0.0599	75.8	74.3	1	29.0-120			2.00	24
(S) Nitrobenzene-d5					*71.8*	*74.9*		*14.0-149*				
(S) 2-Fluorobiphenyl					*79.1*	*81.2*		*34.0-125*				
(S) p-Terphenyl-d14					*83.6*	*86.5*		*23.0-120*				

Instrument: VOCGC4 • File ID: 0822_03

08/22/19 17:19

Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0822_03	6854994	247518
Upper Limit		13709990	495036
Lower Limit		3427497	123759
BLANK R3443491-1 WG1332707 1x	0822_09	6976998	258161
LCS R3443491-2 WG1332707 1x	0822_10	8274738	294112
L1129818-37 WG1332707 35x	0822_18	6875423	273350
L1129818-38 WG1332707 30.5x	0822_19	7064675	259916
L1129818-39 WG1332707 38x	0822_20	8127639	288337

Instrument: VOCGC15 • File ID: 0821_32

08/21/19 22:08

Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0821_32	339608100	80243740
Upper Limit		679216200	160487500
Lower Limit		169804000	40121870
LCS R3443198-1 WG1332522 1x	0821_34	311975000	74223600
BLANK R3443198-2 WG1332522 1x	0821_36	276597100	67478770
L1129818-13 WG1332522 25x	0821_52	278157300	67888940
L1129818-14 WG1332522 25x	0821_53	308695500	74368180
L1129818-15 WG1332522 26.5x	0821_54	329855600	79448440
L1129818-16 WG1332522 25x	0821_55	303635800	73081230
L1129818-18 WG1332522 25x	0821_56	316533800	75962180
L1129818-23 WG1332522 25x	0821_57	306135500	72971150
L1129818-36 WG1332522 25x	0821_58	290235300	69609170
MS R3443198-3 WG1332522 25x	0821_59	329422900	77833560
MSD R3443198-4 WG1332522 25x	0821_60	285940700	68799500

Instrument: VOCMS36 • File ID: 0820B_02

08/20/19 22:29

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0820B_02	392068	162585	155543
Upper Limit		784136	325170	311086
Lower Limit		196034	81293	77772
L1129818-13 WG1332008 1x	0820B_21	386938	161162	147732
L1129818-14 WG1332008 1x	0820B_22	376691	154968	140212
L1129818-15 WG1332008 1.07x	0820B_23	396868	161314	142940
L1129818-16 WG1332008 1x	0820B_24	401545	163527	147853
L1129818-18 WG1332008 1x	0820B_25	395990	164594	147686
L1129818-23 WG1332008 1x	0820B_26	395735	161689	148090
L1129818-36 WG1332008 1x	0820B_27	375486	153578	116689
L1129818-37 WG1332008 1.4x	0820B_28	391067	161407	138618
L1129818-38 WG1332008 1.22x	0820B_29	396259	169568	148848
L1129818-39 WG1332008 1.52x	0820B_30	387990	164701	150366

Instrument: VOCMS36 • File ID: 0820B_02-1

08/20/19 22:29

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0820B_02-1	392068	162585	155543
Upper Limit		784136	325170	311086
Lower Limit		196034	81293	77772
LCS R3442780-1 WG1332008 1x	0820B_03	344219	148158	150336
BLANK R3442780-2 WG1332008 1x	0820B_08	358576	157597	145691
MS R3442780-3 WG1332008 1x	0820B_31	392077	166615	147174
MSD R3442780-4 WG1332008 1x	0820B_32	385507	161918	153818

Instrument: VOCMS41 • File ID: 0821_30-1

08/21/19 18:29

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	0821_30-1	1274424	559511.50	440139.40
Upper Limit		2548848	1119023	880279
Lower Limit		637212	279756	220070
L1129818-39 WG1332648 1.52x	0821_45	1266266	520700.80	341607.90
L1129818-38 WG1332648 1.22x	0821_46	1270025	532645	338369.30
L1129818-37 WG1332648 1.4x	0821_47	1284530	526810.50	343202.90
L1129818-36 WG1332648 1x	0821_48	1269642	513099.80	327490.10
L1129818-23 WG1332648 1x	0821_49	1255842	526843.60	344311.40
L1129818-18 WG1332648 1x	0821_50	1269356	546579.10	400077.80
L1129818-16 WG1332648 1x	0821_51	1298760	552905.60	402503.10
L1129818-15 WG1332648 1.06x	0821_52	1282032	548160.50	389998
L1129818-14 WG1332648 1x	0821_53	1273338	541972.70	386607.70
L1129818-13 WG1332648 1x	0821_54	1267160	533488.60	367874.80

Instrument: VOCMS41 • File ID: 0821_30-2

08/21/19 18:29

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	0821_30-2	1274424	559511.50	440139.40
Upper Limit		2548848	1119023	880279
Lower Limit		637212	279756	220070
LCS R3442957-1 WG1332648 1x	0821_31	1384896	621781.70	483517.50
BLANK R3442957-2 WG1332648 1x	0821_34	1286746	525582.30	351956.80

INTERNAL STANDARD SUMMARY

Instrument: VOCMS36 • File ID: 0821_33-1

08/21/19 23:43

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	0821_33-1	314860	136687	129673
Upper Limit		629720	273374	259346
Lower Limit		157430	68344	64837
LCS R3443137-1 WG1332861 1x	0821_33LCS	314860	136687	129673
BLANK R3443137-2 WG1332861 1x	0821_36	377360	156271	131464
L1129818-40 WG1332861 1x	0821_37	378152	157489	144316

Instrument: SVGC18 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
Standard	AVG	40061557
Upper Limit		60092340
Lower Limit		20030780
L1129818-01 WG1331829 1x	0823_32	28460400
L1129818-02 WG1331829 1x	0823_33	28104000
L1129818-03 WG1331829 1x	0823_34	28394690
L1129818-09 WG1332641 1x	0823_38	26617310
L1129818-20 WG1332641 1x	0823_39	25742020
L1129818-22 WG1332641 1x	0823_40	26184740
L1129818-11 WG1332641 1x	0823_41	26977010
L1129818-13 WG1332641 1x	0823_42	27218260
L1129818-23 WG1332641 1x	0823_43	20585110
L1129818-24 WG1332641 1x	0823_44	26887410
L1129818-05 WG1332641 5x	0823_45	25953370

Instrument: SVGC18 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
Standard	AVG	40061557
Upper Limit		60092340
Lower Limit		20030780
L1129818-19 WG1332641 1x	0824_20	27656850
L1129818-14 WG1332641 1x	0824_27	27590950

Instrument: SVGC20 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
Standard	AVG	26163314
Upper Limit		39244960
Lower Limit		13081660

Instrument: SVGC20 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
BLANK R3443742-1 WG1332642 1x	0823_06	27397090
LCS R3443742-2 WG1332642 1x	0823_07	26747180
L1129818-36 WG1332642 1x	0823_09	26757710
L1129818-37 WG1332642 1x	0823_10	25800230
L1129818-38 WG1332642 1x	0823_11	25957890
L1129818-39 WG1332642 1x	0823_12	27310570
L1129818-28 WG1332642 1x	0823_13	26218730
L1129818-30 WG1332642 1x	0823_14	27567520
L1129818-29 WG1332642 1x	0823_16	28957310
L1129818-31 WG1332642 1x	0823_17	29271090
L1129818-41 WG1332642 1x	0823_18	29183970
L1129818-26 WG1332642 1x	0823_19	27394730
L1129818-27 WG1332642 1x	0823_20	28076470
L1129818-34 WG1332642 1x	0823_21	26224460
MS R3443742-3 WG1332642 1x	0823_22	24589330
MSD R3443742-4 WG1332642 1x	0823_23	23579410
L1129818-25 WG1332642 1x	0823_24	27848020

Instrument: SVGC20 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
Standard	AVG	26163314
Upper Limit		39244960
Lower Limit		13081660
L1129818-41 WG1332642 2x	0823A_08	27906240
L1129818-25 WG1332642 5x	0823A_09	28612220
L1129818-26 WG1332642 2x	0823A_10	27432670
L1129818-27 WG1332642 5x	0823A_11	29160110

Instrument: SVGC20 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
Standard	AVG	26163314
Upper Limit		39244960
Lower Limit		13081660
L1129818-35 WG1332642 1x	0825_15	25226880

Instrument: SVGC28 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
Standard	AVG	1085433857
Upper Limit		1628151000
Lower Limit		542717000
BLANK R3443345-1 WG1331829 1x	0821A_60	1156708000
LCS R3443345-2 WG1331829 1x	0821A_61	1174644000
BLANK R3443346-1 WG1332641 1x	0821A_93	962232600
LCS R3443346-2 WG1332641 1x	0821A_94	938291600
L1129818-04 WG1332641 1x	0821A_95	931526100
L1129818-05 WG1332641 1x	0821A_96	979966700
L1129818-06 WG1332641 1x	0821A_97	971860700
L1129818-07 WG1332641 1x	0821A_98	933244000
L1129818-08 WG1332641 1x	0821A_99	942980400
L1129818-09 WG1332641 1x	0821A_A00	927827400
L1129818-10 WG1332641 1x	0821A_A01	965520300
L1129818-11 WG1332641 1x	0821A_A02	936899100
L1129818-12 WG1332641 1x	0821A_A03	917529300
L1129818-13 WG1332641 1x	0821A_A04	941310600
MS R3443346-3 WG1332641 1x	0821A_A05	955127300
MSD R3443346-4 WG1332641 1x	0821A_A06	924868500
L1129818-14 WG1332641 1x	0821A_A07	941281200
L1129818-15 WG1332641 1x	0821A_A08	944948900
L1129818-16 WG1332641 1x	0821A_A09	992270900
L1129818-17 WG1332641 1x	0821A_A10	938299300
L1129818-18 WG1332641 1x	0821A_A11	934869700
L1129818-19 WG1332641 1x	0821A_A12	955710000
L1129818-20 WG1332641 1x	0821A_A13	939707600

Instrument: SVGC28 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
L1129818-22 WG1332641 1x	0821A_A14	958958800
L1129818-23 WG1332641 1x	0821A_A15	823879400
L1129818-24 WG1332641 1x	0821A_A16	974326000

Instrument: SVGC28 • File ID: AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE Response
Standard	AVG	1085433857
Upper Limit		1628151000
Lower Limit		542717000
MS R3443345-3 WG1331829 1x	0822_10	1235951000
MSD R3443345-4 WG1331829 1x	0822_11	1208291000

Instrument: BNAMS2 • File ID: 0822B_04

08/23/19 01:13

Sample ID	File ID	1,4-DICHLOROBENZENE-D4	NAPHTHALENE-D8	ACENAPHTHENE-D10	PHENANTHRENE-D10	CHRYSENE-D12	PERYLENE-D12
		Response	Response	Response	Response	Response	Response
Standard	0822B_04	43600	173395	97893	191460	196915	189284
Upper Limit		87200	346790	195786	382920	393830	378568
Lower Limit		21800	86698	48947	95730	98458	94642
L1129818-37 WG1333354 1x	0822B_10	39554	151725	86765	175738	179074	172850
L1129818-38 WG1333354 1x	0822B_11	41957	166165	94446	186988	191471	187976
L1129818-39 WG1333354 1x	0822B_12	43434	169662	98754	199390	199259	194928

Instrument: BNAMS2 • File ID: 0822B_04-1

08/23/19 01:13

Sample ID	File ID	1,4-DICHLOROBENZENE-D4	NAPHTHALENE-D8	ACENAPHTHENE-D10	PHENANTHRENE-D10	CHRYSENE-D12	PERYLENE-D12
		Response	Response	Response	Response	Response	Response
Standard	0822B_04-1	43600	173395	97893	191460	196915	189284
Upper Limit		87200	346790	195786	382920	393830	378568
Lower Limit		21800	86698	48947	95730	98458	94642
LCS R3443725-1 WG1333354 1x	0822B_06	45510	182323	104555	205533	221828	216274
BLANK R3443725-2 WG1333354 1x	0822B_07	49302	186682	104582	211734	212915	207447
MS R3443725-3 WG1333354 1x	0822B_27	52664	211610	124455	246163	263163	250823
MSD R3443725-4 WG1333354 1x	0822B_28	56532	230151	132193	268947	281197	266772

Instrument: BNAMS4 • File ID: 0822A_03

08/22/19 19:48

Sample ID	File ID	1,4-DICHLOROBENZENE-D4	NAPHTHALENE-D8	ACENAPHTHENE-D10	PHENANTHRENE-D10	CHRYSENE-D12	PERYLENE-D12
		Response	Response	Response	Response	Response	Response
Standard	0822A_03	14844	58594	33674	65859	62917	63574
Upper Limit		29688	117188	67348	131718	125834	127148
Lower Limit		7422	29297	16837	32930	31459	31787
L1129818-36 WG1332873 1x	0822A_15	17894	69105	38575	76875	67012	65467

INTERNAL STANDARD SUMMARY

Instrument: BNAMS4 • File ID: 0822A_03-1

08/22/19 19:48

Sample ID	File ID	1,4-DICHLOROBENZENE-D4	NAPHTHALENE-D8	ACENAPHTHENE-D10	PHENANTHRENE-D10	CHRYSENE-D12	PERYLENE-D12
		Response	Response	Response	Response	Response	Response
Standard	0822A_03-1	14844	58594	33674	65859	62917	63574
Upper Limit		29688	117188	67348	131718	125834	127148
Lower Limit		7422	29297	16837	32930	31459	31787
LCS R3443671-1 WG1332873 1x	0822A_05	18496	75322	42698	83899	78419	75877
BLANK R3443671-2 WG1332873 1x	0822A_06	16118	64392	36174	70853	61552	59778
MS R3443671-3 WG1332873 1x	0822A_22	16014	72105	43921	91262	88714	88197
MSD R3443671-4 WG1332873 1x	0822A_23	16154	68313	39185	74985	73212	73961

Instrument: BNAMS17 • File ID: 0821B_03

08/22/19 01:09

Sample ID	File ID	NAPHTHALENE-D8 Response	ACENAPHTHENE-D10 Response	PHENANTHRENE-D10 Response	CHRYSENE-D12 Response	PERYLENE-D12 Response
Standard	0821B_03	79004	46966	92498	85419	77673
Upper Limit		158008	93932	184996	170838	155346
Lower Limit		39502	23483	46249	42710	38837
LCS R3443072-1 WG1332605 1x	0821B_04	79282	43832	88491	85973	78471
BLANK R3443072-2 WG1332605 1x	0821B_05	82836	48527	94846	83282	75524
L1129818-01 WG1332605 1x	0821B_06	77019	42447	80845	81964	79063
L1129818-02 WG1332605 1x	0821B_07	83009	46560	95442	85854	78996
MS R3443072-3 WG1332605 1x	0821B_10	84660	46182	92392	85442	81935
MSD R3443072-4 WG1332605 1x	0821B_11	81962	44450	87983	81654	83532

Instrument: BNAMS17 • File ID: 0822_03

08/22/19 12:30

Sample ID	File ID	NAPHTHALENE-D8 Response	ACENAPHTHENE-D10 Response	PHENANTHRENE-D10 Response	CHRYSENE-D12 Response	PERYLENE-D12 Response
Standard	0822_03	68813	38071	77100	75376	69184
Upper Limit		137626	76142	154200	150752	138368
Lower Limit		34407	19036	38550	37688	34592
LCS R3443256-1 WG1332890 1x	0822_04	75489	42498	85991	85237	78525
BLANK R3443256-2 WG1332890 1x	0822_05	71540	40637	81978	78159	72308
L1129818-19 WG1332890 1x	0822_06	74367	42347	85772	85699	80954
MS R3443256-3 WG1332890 1x	0822_07	76697	43017	87601	87452	83029
MSD R3443256-4 WG1332890 1x	0822_08	75970	42500	86871	86178	81910
L1129818-16 WG1332890 1x	0822_09	74612	42549	85190	84108	81486
L1129818-17 WG1332890 1x	0822_10	76436	43833	88238	87701	83118
L1129818-18 WG1332890 1x	0822_11	76654	43610	88850	87396	82912
L1129818-20 WG1332890 1x	0822_12	71597	40643	78366	82126	84902
L1129818-35 WG1332890 1x	0822_13	74489	43061	81937	81379	83290
L1129818-36 WG1332890 1x	0822_14	77241	44070	85445	79245	74760
L1129818-37 WG1332890 1x	0822_15	77709	44290	87399	74751	69004
L1129818-38 WG1332890 1x	0822_16	75917	43288	85860	73523	66170
L1129818-39 WG1332890 1x	0822_17	74008	42134	83902	69747	62679
L1129818-34 WG1332890 1x	0822_27	81079	41434	133004	105772	
L1129818-34 WG1332890 20x	0822_28	72512	41137	80142	88101	105517

Instrument: BNAMS18 • File ID: 0822_03

08/22/19 11:32

Sample ID	File ID	NAPHTHALENE-D8 Response	ACENAPHTHENE-D10 Response	PHENANTHRENE-D10 Response	CHRYSENE-D12 Response	PERYLENE-D12 Response
Standard	0822_03	104199	56060	104955	94913	90111
Upper Limit		208398	112120	209910	189826	180222
Lower Limit		52100	28030	52478	47457	45056
LCS R3443270-1 WG1332888 1x	0822_04	106548	57653	108566	100729	97886
BLANK R3443270-2 WG1332888 1x	0822_05	101980	56141	103208	97091	93361
L1129818-05 WG1332888 1x	0822_06	110325	60609	110069	100903	97134
MS R3443270-3 WG1332888 1x	0822_07	109292	58619	109988	101351	97006
MSD R3443270-4 WG1332888 1x	0822_08	108361	58637	110155	99968	95748
L1129818-03 WG1332888 1x	0822_09	110181	60164	112844	102892	95085
L1129818-04 WG1332888 1x	0822_10	109719	60007	111871	101451	91694
L1129818-06 WG1332888 1x	0822_11	109632	59664	110667	98363	88826
L1129818-07 WG1332888 1x	0822_12	106900	57577	108711	97622	87691
L1129818-08 WG1332888 1x	0822_13	106040	57599	107784	98545	89081
L1129818-09 WG1332888 1x	0822_14	107479	58694	108254	98866	94614
L1129818-10 WG1332888 1x	0822_15	105369	57225	105987	95725	87244
L1129818-11 WG1332888 1x	0822_16	105592	57253	105685	93519	89008
L1129818-12 WG1332888 1x	0822_17	105041	57118	106328	94530	85582
L1129818-14 WG1332888 1x	0822_18	103499	56180	92897	92971	84293
L1129818-15 WG1332888 1x	0822_19	109869	60613	111404	93693	89003
L1129818-13 WG1332888 20x	0822_20	111660	61250	110471	105702	119398

Instrument: BNAMS18 • File ID: 0823_03

08/23/19 11:31

Sample ID	File ID	NAPHTHALENE-D8 Response	ACENAPHTHENE-D10 Response	PHENANTHRENE-D10 Response	CHRYSENE-D12 Response	PERYLENE-D12 Response
Standard	0823_03	84806	46116	86289	68105	70044
Upper Limit		169612	92232	172578	136210	140088
Lower Limit		42403	23058	43145	34053	35022
L1129818-22 WG1332946 20x	0823_07	99243	55842	100455	85683	89103
L1129818-31 WG1332946 20x	0823_08	99218	55831	105956	86878	92018
L1129818-25 WG1332946 20x	0823_09	97297	54389	103797	85131	90481
L1129818-26 WG1332946 20x	0823_10	97351	54463	103360	86890	95780

INTERNAL STANDARD SUMMARY

Instrument: BNAMS25 • File ID: 0822_03

08/22/19 21:04

Sample ID	File ID	NAPHTHALENE-D8 Response	ACENAPHTHENE-D10 Response	PHENANTHRENE-D10 Response	CHRYSENE-D12 Response	PERYLENE-D12 Response
Standard	0822_03	67622	34851	62103	61375	60454
Upper Limit		135244	69702	124206	122750	120908
Lower Limit		33811	17426	31052	30688	30227
LCS R3443544-1 WG1332946 1x	0822_04	73202	38770	69046	71241	72019
BLANK R3443544-2 WG1332946 1x	0822_05	75549	40036	68415	72040	73783
L1129818-24 WG1332946 1x	0822_07	70430	36838	62698	66570	66060
L1129818-33 WG1332946 1x	0822_08	74161	39078	68987	68149	70536
L1129818-30 WG1332946 1x	0822_14	72017	37772	66252	64855	77216
MS R3443544-3 WG1332946 1x	0822_15	76605	39972	71498	70377	83617
MSD R3443544-4 WG1332946 1x	0822_16	71054	36815	65854	65365	74726
L1129818-22 WG1332946 1x	0822_17	70803	37285	66004	67215	81641
L1129818-28 WG1332946 1x	0822_18	68677	35683	63957	67835	77604
L1129818-29 WG1332946 1x	0822_19	68411	35840	64620	67438	86034
L1129818-32 WG1332946 1x	0822_20	68300	35660	63599	60811	67958
L1129818-31 WG1332946 1x	0822_21	68044	35244	66571	72943	96110
L1129818-25 WG1332946 1x	0822_22	63616	32916	60901	69920	91947
L1129818-26 WG1332946 5x	0822_23	64515	33561	61076	63296	81107
L1129818-41 WG1332946 5x	0822_24	65712	35535	61852	59974	68479
L1129818-23 WG1332946 5x	0822_25	69539	37088	68757	68060	78347
L1129818-27 WG1332946 10x	0822_27	65600	34761	63243	60721	71681

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

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(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.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
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.

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
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

Pace National 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.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

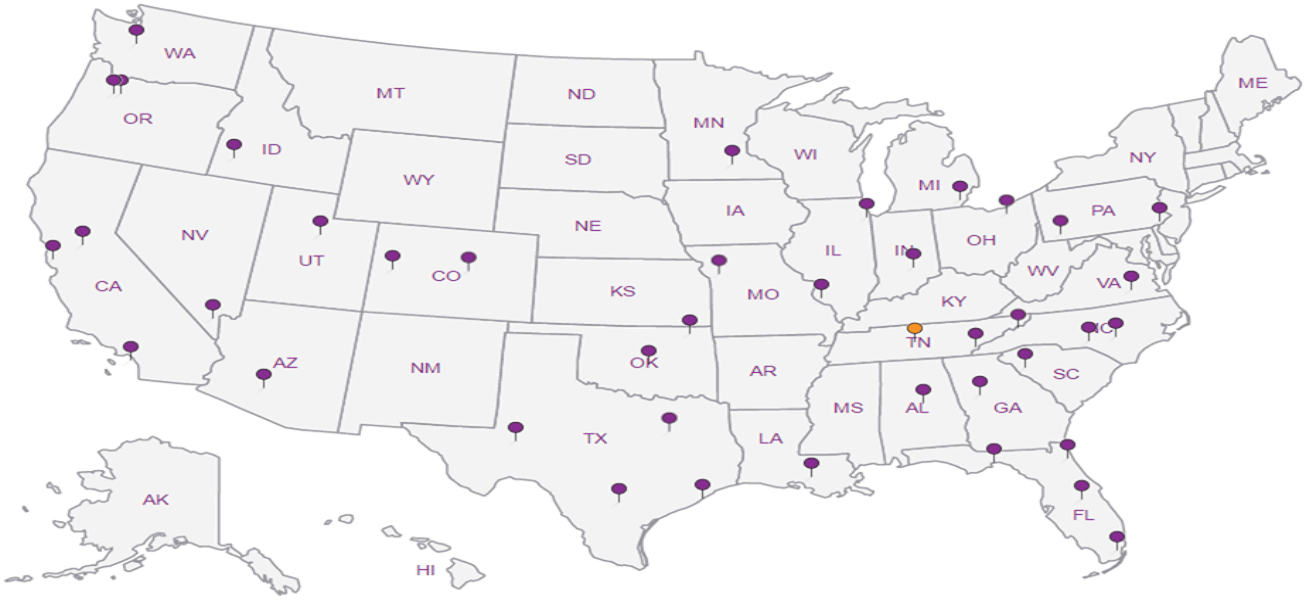
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



Maul Foster & Alongi- Coeur d Alene, ID

601 East Front Avenue, Suite 202

Billing Information: Accounts Payable - Stephanie Ashmore, 400 E Mill Plain Blvd., Ste. 400, Vancouver, WA 98660

Pres Chk

Report to: Julianna Wetmore

Email To: jwetmore@maulfoster.com; mbenzinger@maulfoster.com

Project Description: Keiser Meade

City/State Collected: Mead, WA

Phone: 208-664-7883

Fax:

Client Project # 1332.03.01-01

Lab Project # MAUFOSCID-1332030101

Collected by (print): L. Pritzl

Site/Facility ID # Tristar/Keiser

P.O. #

Collected by (signature): Lisa M. Pritzl

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd, Mount Juliet, TN 37122, Phone: 615-758-5858, Phone: 800-767-5859, Fax: 615-758-5859

L# 112981

G220

Acctnum: MAUFOSCID

Template: T154128

Prelogin: P723878

TSR: 110 - Brian Ford

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As,Cd,Cr,Pb 6010 4ozClr-NoPres (metals)	Cyanide 4ozClr-NoPres + Fluoride	NWTPHDX NOSGT 8ozClr-NoPres	NWTPHGX 40mlAmb/MeOH5ml/Syr	PAHs (SV8270PAHSIMD) 8ozClr-NoPres	PCBs 8082 4ozClr-NoPres	PCBs 8082 8ozClr-NoPres	SVOCs 8270D 8ozClr-NoPres	VOCs 8260C 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	Remarks	Sample # (lab only)
B1-S-081419-1.0	Grab	SS	1.0	8-14-19	1014	3	X	X			X	X				X		01
B1-S-081419-4.0		SS	4.0		1024	2	X	X			X	X				X		02
B2-S-081419-1.0		SS	1.0		1102	3	X	X			X	X				X		03
B2-S-081419-4.0		SS	4.0		1110	3	X	X			X	X				X		04
B3-S-081419-1.0		SS	1.0		1136	3	X	X			X	X				X		05
B3-S-081419-4.0		SS	4.0		1140	3	X	X			X	X				X		06
B4-S-081419-1.0		SS	1.0		1155	3	X	X			X	X				X		07
B4-S-081419-4.0		SS	4.0		1202	3	X	X			X	X				X		08
B5-S-081419-1.0		SS	1.0		1210	3	X	X			X	X				X		09
B5-S-081419-4.0		SS	4.0		1215	3	X	X			X	X				X		10

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Bioassay, WW - WasteWater, DW - Drinking Water, OT - Other_____

Remarks: When metals analysis is requested, please run As, Cd, Cr, + Pb only. Run Dry weight as needed.

pH ____ Temp ____ Flow ____ Other ____

Samples returned via: __ UPS __ FedEx __ Courier __ _____

Tracking # 4882 8632 1614 / 1625 / 1636

Sample Receipt Checklist

COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Lisa M. Pritzl	8-15-14	1800		6	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C 3.1+.2=3.3 Bottles Received: 132	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Carol Kemp	Date: 8/16/19 Time: 9:00	Hold: Condition: NCF OK

Maul Foster & Alongi- Coeur d Alene, ID

601 East Front Avenue, Suite 202

Billing Information:
Accounts Payable - Stephanie Ashmore
400 E Mill Plain Blvd., Ste. 400
Vancouver, WA 98660

Pres Chk

Report to: Julianna Wetmore

Email To: jwetmore@maulfoster.com; mbenzinger@maulfoster.com

Project Description: Keiser Meade

City/State Collected:

Phone: 208-664-7883
Fax:

Client Project # 1332.03.01-01

Lab Project # MAUFOSCID-1332030101

Collected by (print): L Pritzl

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 4

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1129918

Table #

Acctnum: MAUFOSCID
Template: T154128
Prelogin: P723878
TSR: 110 - Brian Ford
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As,Cd,Cr,Pb 6010 4ozClr-NoPres	Cyanide 4ozClr-NoPres + Fluoride	NWTPHDX NOSGT 8ozClr-NoPres	NWTPHGX 40mlAmb/MeOH5ml/Syr	PAHs (SV8270PAHSIMD) 8ozClr-NoPres	PCBs 8082 4ozClr-NoPres	PCBs 8082 8ozClr-NoPres	SVOCs 8270D 8ozClr-NoPres	VOCs 8260C 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	Remarks	Sample # (lab only)
B6-S-081419-1.0	G	SS	1.0	8-14-19	1250	3	X	X			X	X				X		11
B6-S-081419-4.0		SS	4.0	8-14-19	1300	3	X	X			X	X				X		12
B7-S-081419-1.0		SS	1.0		1330	5	X	X	X	X	X	X			X	X		13
B7-S-081419-2.5		SS	2.5		1340	3	X	X	X	X	X	X			X	X		14
B7-S-081419-4.0		SS	4.0		1350	7	X	X	X	X	X	X			X	X		15
B7-S-081419-7.0		SS	7.0		1400	5	X	X	X	X	X	X			X	X		16
B8-S-081419-2.5		SS	2.5		1420	4	X	X	X		X	X				X		17
B8-S-081419-9.5		SS	9.5		1430	4	X	X	X	X	X	X			X	X		A
B9-S-081419-2.0		SS	2.0		1500	3	X	X			X	X				X		19
B10-S-081419-1.0		SS	1.0		1520	3	X	X	X		X	X				X		2

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: When metals analysis is requested please run As, Cd, Cr, + Pb only.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4882 8632 1614 / 1625 / 1636

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	
[signature]	8-15-24	1800			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C 3.1+.2=3.3	Bottles Received: 132
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Carol Kemp	Date: 8/16/19	Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 3 of 4

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Maul Foster & Alongi- Coeur d Alene, ID

601 East Front Avenue, Suite 202

Billing Information:
Accounts Payable - Stephanie Ashmore
400 E Mill Plain Blvd., Ste. 400
Vancouver, WA 98660

Pres Chk

Report to: Julianna Wetmore

Email To: jwetmore@maulfoster.com; mbenzinger@maulfoster.com

Project Description: Keiser Meade

City/State Collected:

Phone: 208-664-7883
Fax:

Client Project # 1332.03.01-01

Lab Project # MAUFOSCID-1332030101

Collected by (print): LPritzl

Site/Facility ID # Tristar/Kaiser

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

L# 1129818

Table #

Acctnum: MAUFOSCID
Template: T154128
Prelogin: P723878
TSR: 110 - Brian Ford
PB:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As,Cd,Cr,Pb 6010 4ozClr-NoPres (Metals)	Cyanide 4ozClr-NoPres + Fluoride	NWTPHDX NOSGT 8ozClr-NoPres	NWTPHGX 40mlAmb/MeOH5ml/Syr	PAHs (SV8270PAHSIMD) 8ozClr-NoPres	PCBs 8082 4ozClr-NoPres	PCBs 8082 8ozClr-NoPres	SVOCs 8270D 8ozClr-NoPres	VOCs 8260C 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	Remarks	Sample # (lab only)
DU1-S-081519	Comp	SS	0.5	8-15-19	0845		X	X			X	X				X		~~21~~
DU2-S-081519	Comp	SS	0.5	8-15-19	0930	3	X	X			X	X				X		22
DU3A-S-081519	Comp	SS	0.5	8-1519	1110	5	X	X	X	X	X	X			X	X		23
DU4-S-081519	Comp	SS	0.5	8-15-19 ~~1010~~ LP	1010	2	X	X			X	X				X		24
DU5A-S-081519	Comp	SS	0.5	8-15-19 ~~1015~~ LP	1015	3	X	X			X	X				X		25
DU5B-S-081519	Comp	SS	0.5	8-15-19	1045	3	X	X			X	X				X		26
DU6-S-081519	Comp	SS	0.5	8-15-19	1125	3	X	X	X		X	X				X		27
DU3B-S-081519-A	Comp	SS	0.5	8-15-19	1315	3	X	X			X	X				X		28
DU3B-S-081519-B	Comp	SS	0.5	8-15-19	1325	3	X	X			X	X				X		29
DU3B-S-081519-C	Comp	SS	0.5	8-15-19	1335	3	X	X			X	X				X		30

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks: See page 1

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4882 8632 1614 / 1625 / 1656

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	8-15-19	1800		6
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.2BF °C 3.1+.2=3.3 Bottles Received: 132
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 8/16/19 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

861

Chain of Custody Page 4 of 4

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Maul Foster & Alongi- Coeur d Alene, ID

601 East Front Avenue, Suite 202

Billing Information:
Accounts Payable - Stephanie Ashmore
400 E Mill Plain Blvd., Ste. 400
Vancouver, WA 98660

Pres Chk

Report to: Julianna Wetmore

Email To: jwetmore@maulfoster.com; mbenzinger@maulfoster.com

Project Description: Keiser Meade

City/State Collected:

Phone: 208-664-7883
Fax:

Client Project # 1332.03.01-01

Lab Project # MAUFOSCID-1332030101

L# 1129313

Table #

Collected by (print): [illegible]

Site/Facility ID #

P.O. #

Acctnum: MAUFOSCID

Collected by (signature): [illegible]

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template: T154128
Prelogin: P723878
TSR: 110 - Brian Ford
PB:
Shipped Via:

Immediately Packed on Ice N ___ Y X

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As,Cd,Cr,Pb 6010 4ozClr-NoPres	Cyanide 4ozClr-NoPres + Fluoride	NWTPHDX NOSGT 8ozClr-NoPres	NWTPHGX 40mlAmb/MeOH5ml/Syr	PAHs (SV8270PAHSIMD) 8ozClr-NoPres	PCBs 8082 4ozClr-NoPres	PCBs 8082 8ozClr-NoPres	SVOCs 8270D 8ozClr-NoPres	VOCs 8260C 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	Remarks	Sample # (lab only)
SS1-S-081519	G	SS	—	8-15-19	1245	3	X	X	X		X	X						31
SS2-S-081519	G	SS	—	8-15-19	1300	2	X	X			X							32
SS3-S-081519	G	SS	—	8-15-19	1255	2	X	X			X							33
B10-S-081419-3.5	C	SS	3.5	8-14-19	1525	1			X		X	X				X		34
B10-S-081419-4.0	C	SS	4.0	8-14-19	1530	3	X	X	X		X	X						35
B11-S-081419-1.0		SS	1.0	8-14-19	1600	6	X	X	X	X	X	X		X	X	X		36
B11-S-081419-3.0		SS	3.0	8-14-19	1610	6	X	X	X	X	X	X		X	X	X		37
B12-S-081419-1.0		SS	1.0	8-14-19	1620	6	X	X	X	X	X	X		X	X	X		38
B12-S-081419-4.0		SS	4.0	8-14-19	1630	6	X	X	X	X	X	X		X	X	X		39
Trip Blank		SS	—	8-14-19	0800										X			40

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: see pg 1

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier ____

Tracking # 4882 8632 1614 / 1625 / 1636

Sample Receipt Checklist
COC Seal Present/Intact: NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
[illegible]	8-15-19	1800		6	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °F °C 3.1+.2=3.3 / Bottles Received: 132	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [illegible]	Date: 8/16/19 / Time: 9:00	Hold: / Condition: NCF / OK

ANALYTICAL REPORT

September 04, 2019

Maul Foster & Alongi- Coeur d Alene, ID

Sample Delivery Group:	L1133388
Samples Received:	08/16/2019
Project Number:	1332.03.01-01
Description:	Keiser Meade
Site:	TRISTAR/KEISER
Report To:	Julianna Wetmore 601 East Front Avenue, Suite 202 Coeur d'Alene, ID 83814

Entire Report Reviewed By: Brian Ford

Brian Ford
Project Manager

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 Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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B8-S-081419-9.5 L1133388-01 Solid

Collected by: L. Pritzl | Collected date/time: 08/14/19 14:30 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	JWW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1335991	1	08/28/19 13:46	08/28/19 20:32	JER	Mt. Juliet, TN

DU2-S-081519 L1133388-02 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 09:30 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	JWW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1336627	1	08/29/19 11:00	08/29/19 20:10	ANP	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1336867	1	08/29/19 10:12	08/30/19 15:19	SDL	Mt. Juliet, TN

DU3A-S-081519 L1133388-03 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 11:10 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	JWW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1336479	1	08/28/19 17:57	08/29/19 21:04	NJM	Mt. Juliet, TN

DU5A-S-081519 L1133388-04 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 10:15 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	JWW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1336479	1	08/28/19 17:57	08/29/19 21:05	NJM	Mt. Juliet, TN

DU5B-S-081519 L1133388-05 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 10:45 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332925	1	08/22/19 20:41	08/22/19 20:47	JWW	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG1335991	1	08/28/19 13:46	08/28/19 20:35	JER	Mt. Juliet, TN

DU3B-S-081519-A L1133388-06 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 13:15 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	JWW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1336479	1	08/28/19 17:57	08/29/19 21:06	NJM	Mt. Juliet, TN

DU3B-S-081519-B L1133388-07 Solid

Collected by: L. Pritzl | Collected date/time: 08/15/19 13:25 | Received date/time: 08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	JWW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1336479	1	08/28/19 17:57	08/29/19 21:07	NJM	Mt. Juliet, TN

DU3B-S-081519-C L1133388-08 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/15/19 13:35	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332926	1	08/22/19 20:34	08/22/19 20:40	JWW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1336479	1	08/28/19 17:57	08/29/19 21:07	NJM	Mt. Juliet, TN

DU1-S-081519 L1133388-09 Solid

Collected by	Collected date/time	Received date/time
L. Pritzl	08/15/19 08:45	08/16/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1332928	1	08/22/19 20:27	08/22/19 20:33	JWW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1336479	1	08/28/19 17:57	08/29/19 21:08	NJM	Mt. Juliet, TN

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, unless qualified or notated within the report. Where applicable, 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.

Brian Ford

Brian Ford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide,Weak Acid Dissoc.	0.275		0.0420	0.269	1	08/28/2019 20:32	WG1335991

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	2.40	J5 J6	0.658	2.06	1	08/29/2019 20:10	WG1336627

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide,Weak Acid Dissoc.	0.123	J	0.0401	0.257	1	08/30/2019 15:19	WG1336867

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.2		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.665	2.08	1	08/29/2019 21:04	WG1336479

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.9		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.654	2.04	1	08/29/2019 21:05	WG1336479

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.2		1	08/22/2019 20:47	WG1332925

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide,Weak Acid Dissoc.	2.40		0.0397	0.255	1	08/28/2019 20:35	WG1335991

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.0		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.646	2.02	1	08/29/2019 21:06	WG1336479

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.3		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.645	2.01	1	08/29/2019 21:07	WG1336479

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.2		1	08/22/2019 20:40	WG1332926

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.645	2.02	1	08/29/2019 21:07	WG1336479

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.1		1	08/22/2019 20:33	WG1332928

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.659	2.06	1	08/29/2019 21:08	WG1336479

Method Blank (MB)

(MB) R3443581-1 08/22/19 20:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1129818-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-22 08/22/19 20:47 • (DUP) R3443581-3 08/22/19 20:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	97.3	97.6	1	0.323		10

Laboratory Control Sample (LCS)

(LCS) R3443581-2 08/22/19 20:47

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) R3443580-1 08/22/19 20:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1129818-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1129818-32 08/22/19 20:40 • (DUP) R3443580-3 08/22/19 20:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	99.7	99.7	1	0.00231		10

Laboratory Control Sample (LCS)

(LCS) R3443580-2 08/22/19 20:40

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) R3443578-1 08/22/19 20:33

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1129847-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1129847-02 08/22/19 20:33 • (DUP) R3443578-3 08/22/19 20:33

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.6	74.9	1	0.328		10

Laboratory Control Sample (LCS)

(LCS) R3443578-2 08/22/19 20:33

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) R3446075-1 08/29/19 20:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.640	2.00

L1133068-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1133068-01 08/29/19 20:48 • (DUP) R3446075-3 08/29/19 20:49

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	0.000	1	0.000		20

L1133549-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1133549-02 08/29/19 21:14 • (DUP) R3446075-8 08/29/19 21:20

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	U	0.000	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3446075-2 08/29/19 20:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	24.0	22.8	95.0	80.0-120	

L1133068-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1133068-02 08/29/19 20:49 • (MS) R3446075-4 08/29/19 20:50 • (MSD) R3446075-5 08/29/19 20:51

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 %
Chromium,Hexavalent	20.0	ND	19.9	18.7	99.4	93.5	1	75.0-125			6.14	20

L1133068-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1133068-02 08/29/19 20:49 • (MS) R3446075-6 08/29/19 20:51

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chromium,Hexavalent	626	ND	684	109	50	75.0-125	

Method Blank (MB)

(MB) R3445740-1 08/29/19 20:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.640	2.00

L1133388-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1133388-02 08/29/19 20:10 • (DUP) R3445740-3 08/29/19 20:10

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	2.40	2.33	1	3.01		20

Laboratory Control Sample (LCS)

(LCS) R3445740-2 08/29/19 20:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	24.0	22.6	94.3	80.0-120	

L1133388-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1133388-02 08/29/19 20:10 • (MS) R3445740-6 08/29/19 20:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chromium,Hexavalent	694	2.40	877	126	50	75.0-125	J5

L1133388-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1133388-02 08/29/19 20:10 • (MS) R3445740-4 08/29/19 20:11 • (MSD) R3445740-5 08/29/19 20:11

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	20.6	2.40	16.9	16.3	70.4	67.7	1	75.0-125	J6	J6	3.31	20

Method Blank (MB)

(MB) R3445238-1 08/28/19 20:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide,Weak Acid Dissoc.	U		0.0390	0.250

Laboratory Control Sample (LCS)

(LCS) R3445238-2 08/28/19 20:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide,Weak Acid Dissoc.	2.50	2.47	98.7	50.0-150	

Method Blank (MB)

(MB) R3446074-1 08/30/19 15:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide,Weak Acid Dissoc.	U		0.0390	0.250

L1133388-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1133388-02 08/30/19 15:19 • (DUP) R3446074-3 08/30/19 15:20

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide,Weak Acid Dissoc.	0.123	0.144	1	15.5	J	20

Laboratory Control Sample (LCS)

(LCS) R3446074-2 08/30/19 15:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide,Weak Acid Dissoc.	2.50	2.69	108	50.0-150	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.

ACCREDITATIONS & LOCATIONS

Pace National 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.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

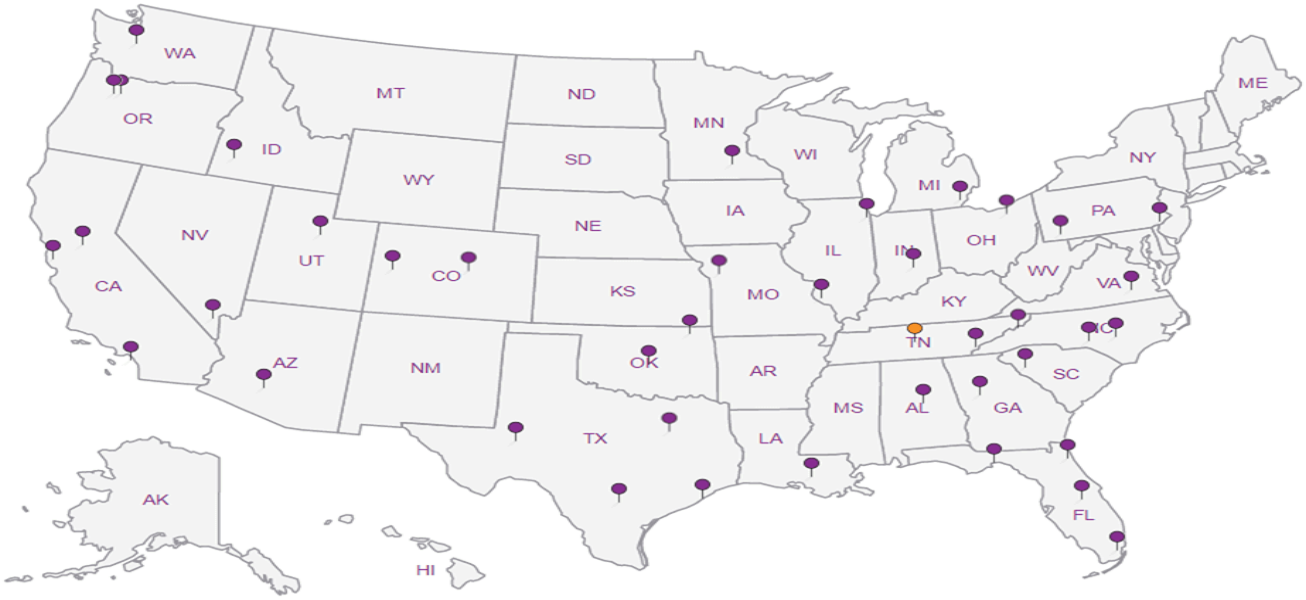
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



Maul Foster & Alongi- Coeur d Alene, ID

601 East Front Avenue, Suite 202

Billing Information:
Accounts Payable - Stephanie Ashmore
400 E Mill Plain Blvd., Ste. 400
Vancouver, WA 98660

Pres Chk

Report to: Julianna Wetmore

Email To: jwetmore@maulfoster.com; mbenzinger@maulfoster.com

Project Description: Keiser Meade

City/State Collected:

Phone: 208-664-7883
Fax:

Client Project # 1332.03.01-01

Lab Project # MAUFOSCID-1332030101

Collected by (print): L. Fritzl

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Chain of Custody Page 2 of 4

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1179818

Table # 21133388

Acctnum: MAUFOSCID

Template: T154128

Prelogin: P723878

TSR: 110 - Brian Ford

PB:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As,Cd,Cr,Pb 6010 4oz Clr-NoPres	Cyanide 4oz Clr-NoPres + Fluoride	NWTPHDX NOSGT 8oz Clr-NoPres	NWTPHGX 40mlAmb/MeOH5ml/Syr	PAHs (SV8270PAHSIMD) 8oz Clr-NoPres	PCBs 8082 4oz Clr-NoPres	PCBs 8082 8oz Clr-NoPres	SVOCs 8270D 8oz Clr-NoPres	VOCs 8260C 40mlAmb/MeOH5ml/Syr	dry weight 2oz Clr-NoPres	Remarks	Sample # (lab only)
B6-S-081419-1.0	G	SS	1.0	8-14-19	1250	3	X	X			X	X				X		11
B6-S-081419-4.0		SS	4.0	8-14-19	1300	3	X	X			X	X				X		12
B7-S-081419-1.0		SS	1.0		1330	5	X	X	X	X	X	X			X	X		13
B7-S-081419-2.5		SS	2.5		1340	3	X	X	X	X	X	X			X	X		14
B7-S-081419-4.0		SS	4.0		1350	7	X	X	X	X	X	X			X	X		15
B7-S-081419-7.0		SS	7.0		1400	5	X	X	X	X	X	X			X	X		16
B8-S-081419-2.5		SS	2.5		1420	4	X	X	X		X	X				X		17
B8-S-081419-9.5		SS	9.5		1430	4	X	X	X	X	X	X			X	X		-01 A
B9-S-081419-2.0		SS	2.0		1500	3	X	X			X	X				X		18
B10-S-081419-1.0		SS	1.0		1520	3	X	X	X		X	X				X		19

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: When metals analysis is requested please run As, Cd, Cr, + Pb only.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 4882 8632 1614 1625 1636

Sample Receipt Checklist
COC Seal Present/Intact: ✓ NP __Y __N
COC Signed/Accurate: ✓ Y __N
Bottles arrive intact: ✓ Y __N
Correct bottles used: ✓ Y __N
Sufficient volume sent: ✓ Y __N
If Applicable
VOA Zero Headspace: ✓ __N
Preservation Correct/Checked: __Y __N

RAD SCREEN: <0.5 mR/hr

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
[signature]	8-15-24	1800		6

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2°C 3.1+.2=3.3	Bottles Received: 132	If preservation required by Login: Date/Time

Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK
			Carol Kemp	8/16/19	9:00		

Chain of Custody Page 3 of 4

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1129818
Table # L1133388
Acctnum: MAUFOSCID
Template: T154128
Prelogin: P723878
TSR: 110 - Brian Ford
PB:
Shipped Via:

Maul Foster & Alongi- Coeur d Alene, ID
601 East Front Avenue, Suite 202

Billing Information:
Accounts Payable - Stephanie Ashmore
400 E Mill Plain Blvd., Ste. 400
Vancouver, WA 98660

Pres Chk

Report to: Julianna Wetmore
Email To: jwetmore@maulfoster.com; mbenzinger@maulfoster.com

Project Description: Keiser Meade
City/State Collected:

Phone: 208-664-7883
Fax:
Client Project # 1332.03.01-01
Lab Project # MAUFOSCID-1332030101

Collected by (print): LPatel
Site/Facility ID # Tristar/Kaiser
P.O. #

Collected by (signature): Lisa M Patel
Immediately Packed on Ice N ___ Y X
Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #
Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	As,Cd,Cr,Pb 6010 4oz Clr-NoPres (Metals)	Cyanide 4oz Clr-NoPres + Fluoride	NWTPHDX NOSGT 8oz Clr-NoPres	NWTPHGX 40mlAmb/MeOH5ml/Syr	PAHs (SV8270PAHSIMD) 8oz Clr-NoPres	PCBs 8082 4oz Clr-NoPres	PCBs 8082 8oz Clr-NoPres	SVOCs 8270D 8oz Clr-NoPres	VOCs 8260C 40mlAmb/MeOH5ml/Syr	dry weight 2oz Clr-NoPres	Remarks	Sample # (lab only)	
DU1-S-081519	Comp	SS	0.5	8-15-19	0845		X	X			X	X				X		~~21~~	-09
DU2-S-081519	Comp	SS	0.5	8-15-19	0950	3	X	X			X	X				X		~~22~~	-02
DU3AS-081519	Comp	SS	0.5	8-1519	1110	5	X	X	X	X	X	X			X	X		~~23~~	03
DU4-S-081519	Comp	SS	0.5	8-15-19 ~~1010~~	1010	2	X	X			X	X				X		~~24~~	
DU5A-S-081519	Comp	SS	0.5	8-15-19 ~~1015~~	1015	3	X	X			X	X				X		~~25~~	04
DU5B-S-081519	Comp	SS	0.5	8-15-19	1045	3	X	X			X	X				X		~~26~~	05
DU6-S-081519	Comp	SS	0.5	8-15-19	1125	3	X	X	X		X	X				X		~~27~~	
DU3B-S-081519-A	Comp	SS	0.5	8-15-19	1315	3	X	X			X	X				X		~~28~~	06
DU3B-S-081519-B	Comp	SS	0.5	8-15-19	1325	3	X	X			X	X				X		~~29~~	07
DU3B-S-081519-C	Comp	SS	0.5	8-15-19	1335	3	X	X			X	X				X		~~30~~	08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks: See page 1

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 4882 8632 1614 / 1625 / 1656

Sample Receipt Checklist
COC Seal Present/Intact: ✓ NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Lisa M Patel	8-15-19	1800		6	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C 3.1+.2=3.3 / Bottles Received: 132	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Carol Kemp	Date: 8/16/19 / Time: 9:00	Hold: / Condition: NCF / OK

Jeremy W. Watkins L1133388

To: Brian Ford; Project Service; Sample Storage
Subject: RE: L1129818 *MAUFOSCID* re-log

From: Brian Ford
Sent: Monday, August 26, 2019 7:47 PM
To: Project Service; Sample Storage
Subject: RE: L1129818 *MAUFOSCID* re-log

UPDATE: Added additional samples and analyses. Updated list below.

Please re-log the following ~~for Cr6 and TS.~~ Transfer TS. R5 due 09/03.

L1129818-18 (B8-S-081419-9.5) CND, TS
L1129818-22 (DU2-S-081519) Cr6, CND, and TS
L1129818-23 (DU3A-S-081519) Cr6 and TS
L1129818-25 (DU5A-S-081519) Cr6 and TS
L1129818-26 (DU5B-S-081519) CND, TS
L1129818-28 (DU3B-S-081519-A) Cr6 and TS
L1129818-29 (DU3B-S-081519-B) Cr6 and TS
L1129818-30 (DU3B-S-081519-C) Cr6 and TS
L1129818-41 (DU1-S-081519) Cr6 and TS

Thanks,

Brian Ford
Project Manager
Pace Analytical National Center for Testing & Innovation
12065 Lebanon Road | Mt. Juliet, TN 37122
direct 615.773.9772 | cell 615.881.4570
bford@pacenational.com | pacenational.com

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From: Brian Ford
Sent: Monday, August 26, 2019 4:45 PM
To: Project Service <ProjServ@pacenational.com>; Sample Storage <SampleStorage@pacenational.com>; Brian Ford <BFord@pacenational.com>
Subject: L1129818 *MAUFOSCID* re-log

Please re-log the following for Cr6 and TS. Transfer TS. R5 due 09/03.

L1129818-22 (DU2-S-081519)
L1129818-23 (DU3A-S-081519)
L1129818-25 (DU5A-S-081519)
L1129818-28 (DU3B-S-081519-A)
L1129818-29 (DU3B-S-081519-B)
L1129818-30 (DU3B-S-081519-C)
L1129818-41 (DU1-S-081519)

L1133388

Thanks,

Brian Ford
Project Manager
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direct 615.773.9772 | cell 615.881.4570
bford@pacenational.com | pacenational.com

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ATTACHMENT C

DATA VALIDATION MEMORANDUM

DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 1839.02.02 | SEPTEMBER 11, 2019 | CONFIDENTIAL ATTORNEY-CLIENT PRIVILEGED

Maul Foster & Alongi, Inc. (MFA) conducted an independent review of the quality of analytical results for soil samples collected from the proposed leasehold at 2111 E. Hawthorne Rd. in Mead, Washington. The samples were collected on August 14 and 15, 2019.

Pace Analytical Laboratories (Pace) performed the analyses. Pace report numbers L1129818 and L1133388 were reviewed. Samples originally submitted for report L1129818 were relogged to L1133388 for additional analyses at the request of the MFA project manager. The analyses performed and samples analyzed are listed below. Not all analyses were performed on all samples.

Analysis	Reference
Anions	USEPA 9056A
Cyanide, total	USEPA 9012B
WAD cyanide	USEPA 9012B
Hexavalent chromium	USEPA 3060A/7196A
PCBs	USEPA 8082A
Semivolatile organic compounds	USEPA 8270D-SIM
Total metals	USEPA 6010D
Total solids	USEPA 2540 G-2011
Volatile Organic Compounds	USEPA 8260C

PCB = polychlorinated biphenyl.
SIM = selected ion monitoring.
USEPA = U.S. Environmental Protection Agency.
WAD = weak acid dissociable.

Samples Analyzed		
Report L1129818		**Report L1129818/ L1133388**
B1-S-081419-1.0	B7-S-081419-2.5	B8-S-081419-9.5
B1-S-081419-4.0	B7-S-081419-4.0	DU2-S-081519
B2-S-081419-1.0	B7-S-081419-7.0	DU3A-S-081519
B2-S-081419-4.0	B8-S-081419-2.5	DU5A-S-081519
B3-S-081419-1.0	B9-D-081419-2.0	DU5B-S-081519
B3-S-081419-4.0	B10-D-081419-1.0	DU3B-S-081519-A
B4-S-081419-1.0	DU4-S-081519	DU3B-S-081519-B
B4-S-081419-4.0	DU6-S-081519	DU3B-S-081519-C
B5-S-081419-1.0	SS1-S-081519	DU1-S-081519

Samples Analyzed		
Report L1129818		**Report L1129818/ L1133388**
B5-S-081419-4.0	SS2-S-081519	--
B6-S-081419-1.0	SS3-S-081519	--
B6-S-081419-4.0	B10-S-081419-3.5	--
B7-S-081419-1.0	B10-S-081419-4.0	--

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2017a,b) and appropriate laboratory and method-specific guidelines (Pace, 2018; USEPA, 1986).

In report L1129818, the chromium result from USEPA Method 6010D sample B3-S-081419-4.0 was flagged by the laboratory because of a failure of the method-required serial dilution test and/or subsequent post-spike criteria. In the table below, the validator "J" qualifies the chromium result because of potential matrix interference.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	B3-S-081419-4.0	Chromium	10.4	10.4 J

NOTES:
J = Result is estimated.
mg/kg = milligram per kilogram.

In report L1129818, Pace flagged the chromium and lead results from USEPA Method 6010D sample DU3B-S-0815119-A because of a failure of the method-required serial dilution test and/or subsequent post-spike criteria. In the table below, the validator J qualifies the detected chromium and lead results because of potential matrix interference.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	DU3B-S-0815119-A	Chromium	44.1	44.1 J
		Lead	14.7	14.7 J

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria, with the following exception.

Report L1133388 states that the USEPA Method 9012B WAD cyanide result from sample DU2-S-081519 was analyzed outside the USEPA-recommended hold time of 14 days, by one day. Pace reported the WAD cyanide result as estimated (J) because the concentration was between the method detection limit (MDL) and the method reporting limit (MRL); thus, no qualification was necessary.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch.

Where an analyte was detected in a sample and in the associated laboratory method blank, the sample result was qualified if the concentration was less than five times the laboratory method blank concentration for all other methods. MRLs were elevated to the concentration detected in the samples, and results were qualified as not detected, "U," at the elevated MRL. Where sample detections were between the MDL and the MRL, the reported limit was raised to the MRL. Where associated results were above the MRL and less than five times the laboratory method blank concentration, results were qualified with J, as estimated. Results previously qualified because of other blank detections did not require further qualification.

According to report L1129818, the USEPA Method 8260C laboratory method blank had several detections. The detected results less than five times the concentration of the laboratory method blank are qualified in the table below.

Report	Sample	Component	Laboratory Method Blank Result (mg/kg)	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	B7-S-081419-1.0	2-Butanone	0.0210 J	0.0602	0.0602 J
		Tetrachloroethene	0.00119 J	0.00103 J	0.00264 U
	B7-S-081419-2.5	2-Butanone	0.0210 J	0.0251 J	0.0260 U
		Toluene	0.00132 J	0.00143 J	0.00520 U
	B7-S-081419-4.0	Benzene	0.000403 J	0.000576 J	0.00114 U
		2-Butanone	0.0210 J	0.0346	0.0346 J
		Toluene	0.00132 J	0.00211 J	0.00572 U
	B7-S-081419-7.0	Benzene	0.000403 J	0.000468 J	0.00108 U
		2-Butanone	0.0210 J	0.0557	0.0557 J
		Toluene	0.00132 J	0.00229 J	0.00541 U
	B8-S-081419-9.5	Benzene	0.000403 J	0.000621 J	0.00108 U
		2-Butanone	0.0210 J	0.0437	0.0437 J

Report	Sample	Component	Laboratory Method Blank Result (mg/kg)	Original Result (mg/kg)	Qualified Result (mg/kg)
		Tetrachloroethene	0.00119 J	0.000825 J	0.00269 U
		Toluene	0.00132 J	0.00618	0.00618 J
	DU3A-S-081519	Benzene	0.000403 J	0.000576 J	0.00104 U
		2-Butanone	0.0210 J	0.0288	0.0288 J
		Tetrachloroethene	0.00119 J	0.000818 J	0.00260 U
		Toluene	0.00132 J	0.00294 J	0.00520 U
	B11-S-081419-1.0	Benzene	0.000403 J	0.000488 J	0.00103 U
		Toluene	0.00132 J	0.00616	0.00616 J
	B11-S-081419-3.0	Benzene	0.000403 J	0.00104 J	0.00145 U
		2-Butanone	0.0210 J	0.0803	0.0803 J
	B12-S-081419-1.0	Benzene	0.000403 J	0.000845 J	0.00128 U
		2-Butanone	0.0210 J	0.0625	0.0625 J
	B12-S-081419-4.0	Benzene	0.000403 J	0.00103 J	0.00158 U
		2-Butanone	0.0210 J	0.0775	0.0775 J

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.
U = result is non-detect.

Report L1129818 states that the USEPA Method 8260C laboratory method blank had a hexachloro-1,3-butadiene detection of 0.517 microgram per liter. Hexachloro-1,3-butadiene was not detected in the associated sample; thus, no qualifications necessary.

As stated in report L1129818, the USEPA Method 2870D laboratory method blank had a dimethyl phthalate detection of 0.0312 milligram per kilogram (mg/kg). The associated samples are U qualified by the validator in the table below.

Report	Sample	Component	Laboratory Method Blank Result (mg/kg)	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	B11-S-081419-3.0	Dimethyl phthalate	0.0312 J	0.0295 J	0.344 U
	B12-S-081419-1.0	Dimethyl phthalate	0.0312 J	0.0230 J	0.349 U
	B12-S-081419-4.0	Dimethyl phthalate	0.0312 J	0.0173 J	0.346 U

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.
U = result is non-detect.

Report L1129818 states that the USEPA Method 8270D-SIM laboratory method blank had a phenanthrene detection of 0.000732 mg/kg. The detected results less than five times the concentration of the laboratory method blank are U qualified by the validator in the table below.

Report	Sample	Component	Laboratory Method Blank Result (mg/kg)	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	B4-S-081419-1.0	Phenanthrene	0.000732 J	0.00241 J	0.00634 U
	B6-S-081419-1.0	Phenanthrene	0.000732 J	0.00190 J	0.00709 U
	B7-S-081419-4.0	Phenanthrene	0.000732 J	0.00128 J	0.00641 U

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.
U = result is non-detect.

All remaining laboratory method blanks were non-detect for target analytes.

Trip Blanks

One trip blank was submitted with report L1129818. The trip blank was non-detect for target analytes.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples.

The reviewer took no action based on minor surrogate outliers or surrogate percent recoveries that were outside acceptance limits because of dilutions necessary to quantify high concentrations of target analytes present in the samples.

The laboratory appropriately documented and qualified surrogate outliers. Associated batch quality assurance/quality control for samples with surrogate outliers were within acceptance limits. All remaining surrogate recoveries were within acceptance limits.

INTERNAL STANDARD RECOVERY RESULTS

The internal standard recoveries were within acceptable limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. When MS/MSD percent recoveries and relative percent differences (RPDs) were outside acceptance limits because of high concentrations of analyte in the sample, and

MS/MSD exceedances were flagged by the laboratory because of high concentrations of analyte, no qualifications were made by the reviewer.

In report L1129818, the USEPA Method 9012B MS (R3443047-3) cyanide recovery did not meet the lower percentage control limit of 75 percent, at 73.1 percent. The MSD (R3443047-4) had an acceptable recovery and the MS was prepared with a sample from an unrelated project; thus, qualification was not required.

In report L1129818, the USEPA Method 9012B MS (R3442805-6) and MSD (R3342805-7) cyanide recoveries did not meet the 75 to 125 percent control limits, at 167 percent and 55.4 percent, respectively. Additionally, the RPD exceeded the control limit of 20 percent, at 35.1 percent. The associated result has been qualified by the reviewer with J, as estimated, in the table below.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	DU5B-S-081519	Cyanide	3.4	3.4 J

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.

In report L1129818, the USEPA Method 9012B MS (R3443599-4) and MSD (R3443599-5) cyanide recoveries did not meet the lower control limit of 75 percent, at 52.1 percent and 38.9 percent, respectively. Additionally, the RPD exceeded the upper control limit of 20 percent, at 29.1 percent. The associated sample result was non-detect and has been qualified by the reviewer with J, as estimated, for a final qualification of "UJ" as non-detect and estimated.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	SS2-S-081519	Cyanide	0.0391 U	0.0391 UJ

NOTES:
mg/kg = milligrams per kilogram.
U = result is non-detect.
UJ = result is non-detect and estimated.

In report L1129818, the USEPA Method 9012B MS (R3443599-7) and MSD (R3443599-8) cyanide recoveries did not meet the lower control limit of 75 percent, at 68.6 percent and 61.2 percent, respectively. The associated sample result is qualified by the reviewer with J, as estimated, in the table below.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	DU1-S-081519	Cyanide	0.206	0.206 J

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.

In report L1129818, the USEPA Method 9056A MS (R3443006-4) and MSD (R3443006-5) fluoride recoveries did not meet the lower control limit of 80 percent, at 79.1 percent and 78.5 percent, respectively. The associated sample result is qualified by the reviewer with J, as estimated, in the table below.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	B2-S-081419-1.0	Fluoride	20.8	20.8 J

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.

In report L1129818, the USEPA Method 6010D MS (R3442899-6) and MSD (R3442899-7) chromium recovery did not meet the lower control limit of 75 percent, at 65.9 percent and 59.4 percent, respectively. The associated sample result is qualified by the reviewer with J, as estimated, in the table below.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	DU3B-S-081519-A	Chromium	44.1	44.1 J

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.

In report L1129818, the USEPA Method 8270D-SIM MSD (R3443256-4) benzo(a)pyrene, benzo(b)fluoranthene, fluoranthene, and pyrene recoveries exceeded the upper control limit, at 146 percent, 169 percent, 169 percent, and 169 percent, respectively. The MS (R3443265-3) recoveries were within acceptance limits, thus, no qualifications were necessary.

In report L1129818, the USEPA Method 8260C MS (R3442780-3)) and MSD (R3442780-4) exceeded the RPD upper control limits of 38 percent and 40 percent, at 44.8 percent and 56.2 percent, respectively, for bromomethane and chloroethane. The associated sample result was non-detect and has been qualified by the reviewer with J, as estimated, for a final qualification of UJ as non-detect and estimated.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	B7-S-081419-2.5	Bromomethane	0.00385 U	0.00385 UJ
		Chloroethane	0.0012 U	0.0012 UJ

NOTES:
mg/kg = milligrams per kilogram.
U = result is non-detect.
UJ = result is non-detect and estimated.

In report L1129818, the USEPA Method 8270D MS (R3443725-3) and MSD (R3443725-4) exceeded the 3,3-dichlorobenzidine RPD upper control limit of 34 percent, at 38.2 percent. The MS and MSD had been prepared with a sample from an unrelated project; thus, qualification was not required.

In report L1129818, the USEPA Method 8270D-SIM MS (R3443544-3) and MSD (R3443544-4) had several exceedances of the upper control limits. Additionally, the RPD between the MS and the MSD exceeded the benzo(b)fluoranthene upper control limit of 36 percent, at 39.6 percent. Benzo(a)pyrene, benzo(b)fluoranthene, fluoranthene, and pyrene were detected in the native unspiked sample at concentrations greater than four times the MS, and benzo(a)anthracene, benzo(g,h,i)perylene, chrysene, and indeno(1,2,3-cd)pyrene had acceptable MS recoveries; thus, no qualifications were necessary. The associated phenanthrene sample result is qualified by the reviewer with a J, as estimated, in the table below.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	DU3B-S-081519-C	Benzo(b)fluoranthene	0.528	0.528 J
		Phenanthrene	0.190	0.190 J

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.

In report L1133388, the USEPA Method 3060A/7196A MS (R3445740-6) hexavalent chromium recovery exceeded the upper control limit of 125 percent, at 126 percent. Because of the fifty-fold dilution, and the slight exceedance, no qualifications were necessary.

In report L1133388, the USEPA Method 3060A/7196A MS (R3445740-4) and MSD (R3445740-5) hexavalent chromium recoveries did not meet the lower control limit of 75 percent, at 70.4 percent and 67.7 percent, respectively. The associated hexavalent chromium sample result is qualified by the reviewer with a J, as estimated, in the table below.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
L1133388	DU2-S-081519	Hexavalent Chromium	2.40	2.40 J

NOTES:
J = result is estimated.
mg/kg = milligrams per kilogram.

All remaining recoveries were within acceptance limits for percent recovery and RPDs.

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. Laboratory duplicate results within five times the MRL were not evaluated for precision.

In report L1129818, the USEPA Method 9012B duplicate (R3443047-5) exceeded the upper RPD limit of 20 percent, at 28.8 percent, for cyanide. Pace analyzed another duplicate (R3443047-8) with acceptable precision, and the duplicate with the exceedance had been prepared with a sample from an unrelated project; thus, qualification was not required.

All remaining laboratory duplicate RPDs were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency. All LCS/LCSD analytes were within acceptance limits for percent recovery. All LCS/LCSD results were within acceptance limits for percent recovery and RPD.

INCREMENTAL SAMPLING METHODOLOGY REPLICATE EVALUATION

An incremental sampling methodology (ISM) sample replicate set was collected in triplicate and submitted to Pace for total metals, cyanide, anions, PCB Aroclor, and PAH analyses by USEPA Method 8270D-SIM. The ISM replicate set included samples DU3B-S-081519-A, DU3B-S-081519-B, and DU3B-S-081519-C. The relative standard deviations (RSDs) of the replicate set were not calculated for results that were non-detect or less than five times the MRL. RSDs calculated for results greater than five times the MRL were all less than 30 percent, with exceptions listed in the table below.

Report	Sample	Analyte	RSD (percent)	Original Result (mg/kg)	Qualified Result (mg/kg)
L1129818	DU3B-S-081519-A	Arsenic	27.9	5.1	--
	DU3B-S-081519-B			6.44	--
	DU3B-S-081519-C			8.84	--
	DU3B-S-081519-A	Chromium	7.84	44.1 J[(a)]	--
	DU3B-S-081519-B			42.3	--
	DU3B-S-081519-C			37.8	--
	DU3B-S-081519-A	Lead	18.0	14.7	--
	DU3B-S-081519-B			20.7	--
	DU3B-S-081519-C			16.3	--
	DU3B-S-081519-A	Fluoride	75.5	4.42	4.42 J
	DU3B-S-081519-B			31.2	31.2 J
	DU3B-S-081519-C			17.6	17.6 J
	DU3B-S-081519-A	Aroclor 1248	48.8	0.264	0.264 J
	DU3B-S-081519-B			0.809	0.809 J
	DU3B-S-081519-C			0.663	0.663 J
	DU3B-S-081519-A	Aroclor 1268	88.0	0.0371	0.0371 J
	DU3B-S-081519-B			0.165	0.165 J
	DU3B-S-081519-C			0.0435	0.0435 J
	DU3B-S-081519-A	Anthracene	52.0	0.012	0.012 J
	DU3B-S-081519-B			0.0401	0.0401 J

Report	Sample	Analyte	RSD (percent)	Original Result (mg/kg)	Qualified Result (mg/kg)
	DU3B-S-081519-C			0.0376	0.0376 J
	DU3B-S-081519-A	Benzo(a)anthracene	36.0	0.166	0.166 J
	DU3B-S-081519-B			0.359	0.359 J
	DU3B-S-081519-C			0.308	0.308 J
	DU3B-S-081519-A	Benzo(a)pyrene	29.0	0.204	-
	DU3B-S-081519-B			0.352	-
	DU3B-S-081519-C			0.364	-
	DU3B-S-081519-A	Benzo(b) fluoranthene	30.6	0.294	-
	DU3B-S-081519-B			0.541	-
	DU3B-S-081519-C			0.528	-
	DU3B-S-081519-A	Benzo(ghi)perylene	36.5	0.147	0.147 J
	DU3B-S-081519-B			0.258	0.258 J
	DU3B-S-081519-C			0.322	0.322 J
	DU3B-S-081519-A	Benzo(k) fluoranthene	38.0	0.0674	0.0674 J
	DU3B-S-081519-B			0.132	0.132 J
	DU3B-S-081519-C			0.153	0.153 J
	DU3B-S-081519-A	Chrysene	49.6	0.145	0.145 J
	DU3B-S-081519-B			0.438	0.438 J
	DU3B-S-081519-C			0.304	0.304 J
	DU3B-S-081519-A	Dibenzo(a,h) anthracene	26.1	0.0477	--
	DU3B-S-081519-B			0.0741	--
	DU3B-S-081519-C			0.0812	--
	DU3B-S-081519-A	Fluoranthene	49.7	0.190	0.19 J
	DU3B-S-081519-B			0.600	0.6 J
	DU3B-S-081519-C			0.488	0.488 J
	DU3B-S-081519-A	Indeno(1,2,3-cd)pyrene	41.2	0.0943	0.0943 J
	DU3B-S-081519-B			0.186	0.186 J
	DU3B-S-081519-C			0.233	0.233 J
	DU3B-S-081519-A	Phenanthrene	56.4	0.0622	0.0622 J
	DU3B-S-081519-B			0.244	0.244 J
	DU3B-S-081519-C			0.190 J[(a)]	0.19 J
	DU3B-S-081519-A	Pyrene	26.7	0.449	--
	DU3B-S-081519-B			0.753	--
	DU3B-S-081519-C			0.546	--

Report	Sample	Analyte	RSD (percent)	Original Result (mg/kg)	Qualified Result (mg/kg)

NOTES:
-- = qualification not required.
J = result is estimated.
mg/kg = milligrams per kilogram.
RSD = relative standard deviation.
[(a)r]Result is qualified above in the MS/MSD section, based on poor percent recovery.

All remaining analytes were within the acceptance criteria.

REPORTING LIMITS

Pace used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences. Pace qualified results between the MDL and the reporting limit with J, as estimated.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies. None were found.

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