Food Safety Project

Almond Sampling 2017

Comparison of Chemical Analyses Between Almonds Irrigated with Produced Water and Almonds Irrigated with Traditional Water Sources

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1. Introduction

California's San Joaquin Valley is a major oil producing area. In 2013, approximately 150 million barrels of oil (42 gallons/barrel) were produced along with nearly 2 billion barrels of water (about 250,000 acre-feet). A portion of the produced water in this region is reused for the irrigation of crops and there is significant interest in expanding this water reuse practice, especially in periods of drought. Produced water is treated to remove or reduce the concentrations of petroleum hydrocarbons prior to delivery to water agencies and the treated produced water is blended with groundwater or surface water prior to reuse to ensure the final blended water meets agricultural water quality objectives for salinity and boron. Although this practice has been long-standing, there recently has been increased public interest in the use of produced water for irrigation. This interest is part of a general increase in public scrutiny of oil production activities and increased public concern regarding the human health and environmental impacts of oil and gas production (Central Valley Regional Water Quality Control Board, 2017).

Produced water from the areas east and north of Bakersfield has been reused for irrigation for approximately 30 years. Currently, there are four oil companies that send oil field produced water to four irrigation districts. The Central Valley Regional Water Quality Control Board (Regional Board) requires that these companies test the produced water for a variety of chemicals to ensure that there will not be significant negative impacts associated with the use of produced water (California Environmental Protection Agency, 2017). Cawelo Water District (WD), North Kern Water Storage District, Jasmin Ranchos Mutual Water Company, and Kern-Tulare WD are located within the Tulare Lake Basin and receive oil field produced water. Cawelo WD and parts of Kern-Tulare WD, including operation of the Jasmin Ranchos Mutual Water Company reservoir, have the longest history reusing produced water for irrigation. Discharges of produced water to the Districts are regulated by Waste Discharge Requirements, which conditionally allow the water to be used for irrigation and require extensive monitoring (Central Valley Regional Water Quality Control Board, 2017). This report is part of an ongoing evaluation by the Regional Board concerning the beneficial reuse of oil field produced water.

Cawelo WD water supply sources include the Kern River, State Water Project, pumped groundwater, and produced water generated from oil production operations (Robles, 2016). Cawelo WD receives approximately 32,000 acre-feet of water a year from regional oil producers under Waste Discharge Requirement Orders issued by the Regional Board. The produced water is received into Cawelo water distribution facilities and blended with other traditional irrigation water sources prior to being delivered to agricultural fields for irrigation (Enviro-Tox Services, 2017). The produced water used by Cawelo WD is blended and used to irrigate grapes, citrus, almonds, and pistachio crops. Few row crops are grown regularly in Cawelo WD, but in 2017 some garlic was grown. These crops were sampled in 2017 as part of this study.

The Kern-Tulare WD relies upon surface water for a significant percentage of its water supply and the majority of the remaining portion of the District's water supply is from groundwater pumped from privately-owned wells. In accordance with Waste Discharge Requirements Resolution No. 68-209 (issued in 1968), water from the Kern-Tulare WD was blended (80%) in the Jasmin Mutual Water District (now referred to as the Jasmin Ranchos Mutual Water Company) reservoir with produced water from the Jasmin oil field (20%). A subsequent Revised Monitoring and Reporting Program No. 98-205 (issued in 1998) allowed transfer of water from the Jasmin Mutual Water

District to a Kern-Tulare WD reservoir. In order to provide a supplemental supply of water to serve the district's customers for irrigation purposes, the Kern-Tulare WD partnered with Hathaway LLC to acquire up to 2,640 acre-feet per year of produced water from the Jasmin oil field (U.S. Bureau of Reclamation, 2017). The produced water used by Kern-Tulare WD is blended and used to irrigate citrus groves in some locations. Citrus crops were sampled in 2017.

The North Kern Water Storage District historically relied upon the Kern River and groundwater for irrigation supplies; excess surface water is used in spreading basins for groundwater recharge. Per Waste Discharge Requirements Order R5-2015-0127 issued in 2015, the North Kern Water Storage District also has authorization to use treated produced water, blended prior to use, from the Kern Front Oil Field for irrigation and groundwater recharge. The Order allows produced water to be used on 55,000 acres of irrigated farmland and 1,500 acres of spreading basins. Most of the irrigated acreage within the water district is planted with nuts, vineyards, and fruit.

Recycling of water is encouraged by State policy as a means to supplement California's limited water supply, provided the water is suitable for the intended use. The Regional Board encourages the recycling of produced water for irrigation, if suitable for reuse. Since food safety is outside the expertise of the Regional Board, the Board has taken a proactive approach by convening a Food Safety Panel of experts in human health and environmental toxicology to ascertain the possible food safety risks associated with using produced water on crops. The Regional Board has also contracted with a science advisor to develop and coordinate and/or implement food safety related work plans, and further advise the Board on food safety related issues. The Regional Board has engaged a neutral third-party facilitator to support the project (Central Valley Regional Water Quality Control Board, 2017).

In the summer of 2017, almond samples were collected from fields that had received produced water (treated sites) and fields that did not receive produced water as part of their irrigation supply (control sites). Almond samples were analyzed for a variety of organic and inorganic constituents that were selected based on their potential association with produced waters. The purpose of this sampling was to determine concentrations of inorganic and organic constituents in almonds from treated and control areas with the objective of comparing crops from treated and control areas in the context of food safety. The purpose of this report is to document the results of the sampling of this crop in 2017 and to present a preliminary scientific interpretation of the results of this sampling.

2. Methods

2.1 Sample collection

Samples were collected in accordance with the Crop Sampling and Analysis Plan (SAP) prepared by Enviro-Tox Services, Inc., with review and suggestions by Regional Board staff (Enviro-Tox Services, 2017). Sampling locations shown in Figure 1 were sampled on August 8th, 9th, and 10th, 2017. Sampling was conducted by Advanced Environmental Concepts Inc. (http://www.advanced-ec.com/index.html), a contract sampling service, with oversight by the Regional Board staff. Technical staff from Lawrence Berkeley National Laboratory accompanied Regional Board staff on the sampling event.

Crop samples were collected at both treated and control locations. Samples were collected at 10 treated locations and 10 control locations. As per the sampling plan, samples of crops were collected in the interior portions of the fields (at least 100 feet from the edge) to minimize potential effects of contamination from road dust, diesel fumes, or any other identified sources of hydrocarbons. The whole almond samples were cut or picked from the branch, not pulled, which might damage the almonds, and then placed inside approved pre-cleaned 32 oz. wide-mouth glass jars. Sampling was conducted in a manner to minimize potential dust contamination. Three jars of samples were collected at each sampling location (the jars were composited at the analytical laboratory before extraction and analyzed as described below). Sample containers were closed and sealed with tamper proof label tape. Samples were labelled and placed on ice in a cooler immediately after sample collection. Samples in coolers were shipped by an overnight shipping service to Weck Laboratories (City of Industry, CA) for analysis.

Samples were maintained at 4ºC +/- 2 until received by the laboratory. Chain of custody was maintained throughout the sampling and shipping process. Field duplicate samples were collected for quality control. Field duplicates were collected from the same location as the primary sample. Field duplicates were collected at both fields that had received produced water and control fields (Figure 1). Analyses included in this report met applicable quality assurance and quality control (QA/QC) requirements.

2.2 Sample analysis

Crop samples were analyzed by a state certified analytical laboratory with experience analyzing almonds and other food samples (Weck Laboratories, Inc., City of Industry, CA). Sample hulls and any exposed shells were wiped clean of dirt using a lint-free tissue and inedible portions of the sample, including the hull and shell, were removed. The edible portion of the crop from the three jars of samples from each site were composited into one sample for extraction and analysis using U.S. Environmental Protection Agency (USEPA) approved methods. Duplicate samples were analyzed independently, as per accepted practice for certified analytical laboratories. Samples were labelled so the lab could not identify control samples from treated.

Crop samples were tested for 30 organic compounds and the 18 inorganic elements that were selected by the Regional Board and their science advisor based on their general association with oil production. The analytes were chosen to represent major classes of hydrocarbons and heavy metals historically associated with oilfield produced water. Tables 1 and 2 list the 30 organic analytes and the 18 inorganic analytes and the corresponding methods used for analysis that were required by the SAP (Enviro-Tox Services, 2017), respectively. In addition to the 30 organic analytes on the target analyte list (Table 1), data were reported for an additional 59 organic analytes, including chlorinated solvents and other hydrocarbons (Table 3), since those compounds are measured incidentally by the same USEPA methods shown in Table 1. This analytical certified regime includes many of the oil field chemicals being used in areas contributing produced water for irrigation, as shown in Table 4 (Shonkoff et al., 2016). Appendix A contains the analytical reports received from Weck Laboratories for each sample analyzed along with the corresponding chain of custody.

2.3 Data analysis

Data were reported electronically by Weck Laboratories. Data were analyzed using JMP Statistical Software (SAS Institute Inc., Cary, NC). Data were analyzed and interpreted as described by Zar (1999) and Hollander and Wolfe (1999). Significance was evaluated using a standard of 95% probability (alpha = 0.05).

2.4 Data transformation and statistical analysis

The results presented in this report included analysis based on parametric statistics which assumes a normal data distribution. Preliminary analysis showed that a non-parametric analysis, that does not rely on the assumption of a normal distribution, was in agreement with the parametric analysis and identified the same levels of significance between treated and controls as the parametric analysis. Since the conclusion of the non-parametric and parametric analysis are the same, only the results of the parametric analysis are included in this report, since parametric analyses, which include values such as averages, are typically better understood by the general public.

When samples are analyzed for organic and inorganic compounds using USEPA approved methods, there is a requirement for each measurement to have a known detection limit (DL) and a known reporting limit (RL). These limits are a function of factors that affect the sensitivity of the analysis, such as the type of instrument used, the dilutions made on a sample, and the presence of interfering substances. Appendix B shows a summary analysis of the detection limit (DL) and reporting limit (RL) for each analyte measured in almonds. When a sample does not have an analyte present or the concentration of the analyte occurs at a concentration below the reporting limit, the result for the analysis is reported as “not detected” or “ND”. The certified results for almond analyses are included as Appendix A, and it can be seen that most analytes in the almonds occurred in concentrations below the detection limits of analysis.

There are several possible approaches to the transformation of data that include non-detected analytes (non-detects). Non-detects must be transformed from letters “ND” to numbers for analysis. One common approach is to assign a value of zero (“0”) to non-detects and another approach is to assign a value equal to one-half the reporting limit (RL/2) or one-half the detection limit (DL/2) to samples that have “ND” as a result. In this report, when results were “ND” a value of “0” was assigned for analysis. Values of “0” were used, since values of zero clearly indicate where analytes were not detected. Analysis of detected analytes are included in the report.

3. Results and Discussion

3.1 Inorganic analysis

Of the 18 inorganic target analytes measured in the almonds, barium, copper, molybdenum, nickel, strontium, and zinc were detected at measurable concentrations (Table 5). Figure 2 shows a comparison of concentrations of total barium in almonds between treated and controls. Results show that significantly higher barium concentrations on average were observed in almonds from areas that received produced water (treated) than in almonds from areas that did not receive produced water (controls). Barium is a naturally occurring mineral in soil and, although barium is reported as being used in oil field operations that provide produced water to the treated areas,

barium concentrations in the almonds tested are within the range of normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2007).

Figure 3 shows a comparison of concentrations of total copper in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) had copper concentrations that were not significantly different on average than almonds from areas that did not receive produced water (controls). Copper is a naturally occurring essential nutrient and, although copper is reported as being used in oil field operations that provide produced water to the treated areas, copper concentrations in the almonds tested are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2004a).

Figure 4 shows a comparison of concentrations of total molybdenum in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) had molybdenum concentrations that were not significantly different on average than almonds from areas that did not receive produced water (controls). Molybdenum is a naturally occurring mineral found in soil and fresh water and molybdenum concentrations in the almonds tested are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2017).

Figure 5 shows a comparison of concentrations of total nickel in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) had nickel concentrations that were not significantly different on average than almonds from areas that did not receive produced water (controls). Nickel is a naturally occurring element found in soil and fresh water and, although nickel is reported as being used in oil field operations that provide produced water to the treated areas, nickel concentrations in the almonds tested are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2005a).

Comparison of concentrations of total strontium in almonds between treated and controls is shown in Figure 6. Results show that almonds from areas that received produced water (treated) had strontium concentrations that were not significantly different on average than almonds from areas that did not receive produced water (controls). Strontium is a naturally occurring mineral found in soil and fresh water and strontium concentrations in the almonds tested are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2004b).

Figure 7 shows a comparison of concentrations of total zinc in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) had zinc concentrations that were not significantly different on average than almonds from areas that did not receive produced water (controls). Zinc is a naturally occurring element found in soil and fresh water and, although zinc is reported as being used in oil field operations that provide produced water to the treated areas, zinc concentrations in the almonds tested are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2005b).

3.2 Organic analysis

Of the 30 organic analytes on the target analyte list (Table 1), none of these compounds were found in almond samples (Table 3). An additional 59 organic analytes (Table 3) that were not on the

required target organic analyte list (Table 1) were also analyzed as part of this study. Lower reporting limits and lower detection limits for these chemicals are summarized in Appendix B. None of these organic compounds were found in almonds. Almonds from areas that received produced water (treated) and areas that did not receive produced water (controls) were the same, in that the almonds did not have measurable concentrations of these volatile or semi-volatile organic compounds.

4. Conclusions

The primary objective of this study was to determine if the use of produced water for irrigation of almonds trees resulted in increased concentration of any of the chemical constituents listed in Tables 1 and 2 in almonds from produced water irrigated areas (treated areas) in comparison to areas that did not receive produced water (control areas).

Almonds were not found to have measurable concentrations of any of the organic compounds of interest to this study. The naturally occurring elements barium, copper, molybdenum, nickel, strontium, and zinc were detected at measurable concentrations in almonds from both produced water irrigated and control areas (Figures 2-7). Although barium was found in higher concentrations in almonds from areas irrigated with produced water in comparison to reference areas, there are other sources of barium in the environment, including soils. In all cases, barium concentrations were well within normal limits for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2007). Copper, molybdenum, nickel, strontium, and zinc concentrations we also within normal, expected concentrations in foods.

In the summer of 2017, crop samples were collected from fields that had received produced water (treated sites) and fields that did not receive produced water as part of their irrigation supply (control sites). Crop samples were analyzed for a variety of organic and inorganic constituents that were selected based on their potential association with produced waters. The purpose of this report is to document the results of the sampling of in 2017. This report is limited to the reporting of results for one year (2017) and is part of a larger, multiyear investigation. Crops continue to be sampled and additional statistical analysis will be performed as more samples are collected and analyzed. This report is limited to a preliminary scientific interpretation of the results of this sampling.

5. Acknowledgements

This work was supported by a grant from the State Water Board to Lawrence Berkeley National Laboratory (Berkeley Lab). Special thanks to Josh Mahoney of the Regional Board and Ben Grafius of Lawrence Berkeley National Laboratory for assistance with data compiling and analysis and Dr. Mary Kay Camarillo and Jeremy Domen of Lawrence Berkeley National Laboratory for review and technical editing.

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Tables

Table 1. Target organic analytes measured in almonds and methods of analysis. This list only included analytes specified in the sample and analysis plan (Enviro-Tox Services, 2017). In addition, Table 3 shows a complete list of analytes measured using the specified U.S. EPA methods.

Analyte	CAS Number	Method name
1,2,4-Trimethylbenzene	95-63-6	EPA 8260B
2-Methylnaphthalene	91-57-6	EPA 8270C SIM
Acenaphthene	83-32-9	EPA 8270C SIM
Acenaphthylene	208-96-8	EPA 8270C SIM
Acetone	67-64-1	EPA 8260B
Anthracene	120-12-7	EPA 8270C SIM
Benzene	71-43-2	EPA 8260B
Benzo (a) anthracene	56-55-3	EPA 8270C SIM
Benzo (a) pyrene	50-32-8	EPA 8270C SIM
Benzo (b) fluoranthene	205-99-2	EPA 8270C SIM
Benzo (g,h,i) perylene	191-24-2	EPA 8270C SIM
Benzo (k) fluoranthene	207-08-9	EPA 8270C SIM
Bis(2-ethylhexyl)phthalate	117-81-7	EPA 8270C
Carbazole	86-74-8	EPA 8270C
Chloroform	67-66-3	EPA 8260B
Chrysene	218-01-9	EPA 8270C SIM
Dibenzo (a,h) anthracene	53-70-3	EPA 8270C SIM
Ethylbenzene	100-41-4	EPA 8260B
Fluoranthene	206-44-0	EPA 8270C SIM
Fluorene	86-73-7	EPA 8270C SIM
Indeno (1,2,3-cd) pyrene	193-39-5	EPA 8270C SIM
m,p-Xylene	1330-20-7	EPA 8260B
Methanol	67-56-1	EPA 8015D
Naphthalene	91-20-3	EPA 8270C SIM/EPA 8260B
o-Xylene	95-47-6	EPA 8260B
Phenanthrene	85-01-8	EPA 8270C SIM
Phenol	108-95-2	EPA 8270C
Pyrene	129-00-0	EPA 8270C SIM
Pyridine	110-86-1	EPA 8270C
Toluene	108-88-3	EPA 8260B

Table 2. Target inorganic analytes measured in almonds and methods of analysis.

Analyte	CAS Number	Method Name
Antimony, Total	7440-36-0	EPA 6020A/EPA 6020B
Arsenic, Total	7440-38-2	EPA 6020A/EPA 6020B
Barium, Total	7440-39-3	EPA 6020A/EPA 6020B
Beryllium, Total	7440-41-7	EPA 6020A/EPA 6020B
Cadmium, Total	7440-43-9	EPA 6020A/EPA 6020B
Chromium, Total	7440-47-3	EPA 6020A/EPA 6020B
Cobalt, Total	7440-48-4	EPA 6020A/EPA 6020B
Copper, Total	7440-50-8	EPA 6020A/EPA 6020B
Lead, Total	7439-92-1	EPA 6020B
Lithium, Total	7439-93-2	EPA 6010B
Molybdenum, Total	7439-98-7	EPA 6020A/EPA 6020B
Nickel, Total	7440-02-0	EPA 6020B
Selenium, Total	7782-49-2	EPA 6020A/EPA 6020B
Silver, Total	7440-22-4	EPA 6020A/EPA 6020B
Strontium, Total	7440-24-6	EPA 6020A/EPA 6020B
Thallium, Total	7440-28-0	EPA 6020A/EPA 6020B
Vanadium, Total	7440-62-2	EPA 6020B
Zinc, Total	7440-66-6	EPA 6020A/EPA 6020B

Table 3. Organic analytes measured and number of samples that had detectable concentrations of the organic analyte.

Analyte	CAS Number	Units	Method	N Samples	Maximum Value Measured	No. of Samples with Analyte Detected	Reporting Limit	Percent of Samples with Analyte Detected
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	EPA 8260B	24	0	0	1200	0
1,1,1-Trichloroethane	71-55-6	ug/kg	EPA 8260B	24	0	0	1200	0
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	EPA 8260B	24	0	0	1200	0
1,1,2-Trichloroethane	79-00-5	ug/kg	EPA 8260B	24	0	0	1200	0
1,1-Dichloroethane	75-34-3	ug/kg	EPA 8260B	24	0	0	1200	0
1,1-Dichloroethene	75-35-4	ug/kg	EPA 8260B	24	0	0	1200	0
1,1-Dichloropropene	563-58-6	ug/kg	EPA 8260B	24	0	0	1200	0
1,2,3-Trichlorobenzene	87-61-6	ug/kg	EPA 8260B	24	0	0	1200	0
1,2,3-Trichloropropane	96-18-4	ug/kg	EPA 8260B	24	0	0	1200	0
1,2,4-Trichlorobenzene	120-82-1	ug/kg	EPA 8260B	24	0	0	1200	0
1,2,4-Trimethylbenzene	95-63-6	ug/kg	EPA 8260B	24	0	0	1200	0
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	EPA 8260B	24	0	0	1200	0
1,2-Dibromoethane (EDB)	106-93-4	ug/kg	EPA 8260B	24	0	0	1200	0
1,2-Dichloroethane	107-06-2	ug/kg	EPA 8260B	24	0	0	1200	0
1,2-Dichloropropane	78-87-5	ug/kg	EPA 8260B	24	0	0	1200	0
1,3,5-Trimethylbenzene	108-67-8	ug/kg	EPA 8260B	24	0	0	1200	0
1,3-Dichloropropane	142-28-9	ug/kg	EPA 8260B	24	0	0	1200	0
1-Methylnaphthalene	90-12-0	ug/kg	EPA 8270C SIM	24	0	0	68	0
2,2-Dichloropropane	594-20-7	ug/kg	EPA 8260B	24	0	0	1200	0
2-Butanone	78-93-3	ug/kg	EPA 8260B	24	0	0	1200	0
2-Chloroethyl vinyl ether	110-75-8	ug/kg	EPA 8260B	24	0	0	1200	0
2-Chlorotoluene	95-49-8	ug/kg	EPA 8260B	24	0	0	1200	0
2-Hexanone	591-78-6	ug/kg	EPA 8260B	24	0	0	1200	0
2-Methylnaphthalene	91-57-6	ug/kg	EPA 8270C SIM	24	0	0	68	0

Analyte	CAS Number	Units	Method	N Samples	Maximum Value Measured	No. of Samples with Analyte Detected	Reporting Limit	Percent of Samples with Analyte Detected
4-Chlorotoluene	106-43-4	ug/kg	EPA 8260B	24	0	0	1200	0
4-Methyl-2-pentanone	108-10-1	ug/kg	EPA 8260B	24	0	0	1200	0
Acenaphthene	83-32-9	ug/kg	EPA 8270C SIM	24	0	0	68	0
Acenaphthylene	208-96-8	ug/kg	EPA 8270C SIM	24	0	0	68	0
Acetone	67-64-1	ug/kg	EPA 8260B	24	0	0	1200	0
Acrolein	107-02-8	ug/kg	EPA 8260B	24	0	0	1200	0
Acrylonitrile	107-13-1	ug/kg	EPA 8260B	24	0	0	1200	0
Anthracene	120-12-7	ug/kg	EPA 8270C SIM	24	0	0	68	0
Benzene	71-43-2	ug/kg	EPA 8260B	24	0	0	1200	0
Benzo (a) anthracene	56-55-3	ug/kg	EPA 8270C SIM	24	0	0	68	0
Benzo (a) pyrene	50-32-8	ug/kg	EPA 8270C SIM	24	0	0	68	0
Benzo (b) fluoranthene	205-99-2	ug/kg	EPA 8270C SIM	24	0	0	68	0
Benzo (g,h,i) perylene	191-24-2	ug/kg	EPA 8270C SIM	24	0	0	68	0
Benzo (k) fluoranthene	207-08-9	ug/kg	EPA 8270C SIM	24	0	0	68	0
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	EPA 8270C	24	0	0	0.45	0
Bromobenzene	108-86-1	ug/kg	EPA 8260B	24	0	0	1200	0
Bromochloromethane	74-97-5	ug/kg	EPA 8260B	24	0	0	1200	0
Bromodichloromethane	75-27-4	ug/kg	EPA 8260B	24	0	0	1200	0
Bromoform	75-25-2	ug/kg	EPA 8260B	24	0	0	1200	0
Bromomethane	74-83-9	ug/kg	EPA 8260B	24	0	0	1200	0
Carbazole	86-74-8	mg/kg	EPA 8270C	24	0	0	0.45	0
Carbon tetrachloride	56-23-5	ug/kg	EPA 8260B	24	0	0	1200	0
Chlorobenzene	108-90-7	ug/kg	EPA 8260B	24	0	0	1200	0
Chloroethane	75-00-3	ug/kg	EPA 8260B	24	0	0	1200	0
Chloroform	67-66-3	ug/kg	EPA 8260B	24	0	0	1200	0
Chloromethane	74-87-3	ug/kg	EPA 8260B	24	0	0	1200	0

Analyte	CAS Number	Units	Method	N Samples	Maximum Value Measured	No. of Samples with Analyte Detected	Reporting Limit	Percent of Samples with Analyte Detected
Chrysene	218-01-9	ug/kg	EPA 8270C SIM	24	0	0	68	0
cis-1,2-Dichloroethene	156-59-2	ug/kg	EPA 8260B	24	0	0	1200	0
cis-1,3-Dichloropropene	10061-01-5	ug/kg	EPA 8260B	24	0	0	1200	0
Dibenzo (a,h) anthracene	53-70-3	ug/kg	EPA 8270C SIM	24	0	0	68	0
Dibromochloromethane	124-48-1	ug/kg	EPA 8260B	24	0	0	1200	0
Dibromomethane	74-95-3	ug/kg	EPA 8260B	24	0	0	1200	0
Dichlorodifluoromethane (Freon 12)	75-71-8	ug/kg	EPA 8260B	24	0	0	1200	0
Ethylbenzene	100-41-4	ug/kg	EPA 8260B	24	0	0	1200	0
Fluoranthene	206-44-0	ug/kg	EPA 8270C SIM	24	0	0	68	0
Fluorene	86-73-7	ug/kg	EPA 8270C SIM	24	0	0	68	0
Hexachlorobutadiene	87-68-3	ug/kg	EPA 8260B	24	0	0	1200	0
Indeno (1,2,3-cd) pyrene	193-39-5	ug/kg	EPA 8270C SIM	24	0	0	68	0
Isopropylbenzene	98-82-8	ug/kg	EPA 8260B	24	0	0	1200	0
m,p-Xylene	1330-20-7	ug/kg	EPA 8260B	24	0	0	1200	0
m-Dichlorobenzene	541-73-1	ug/kg	EPA 8260B	24	0	0	1200	0
Methanol	67-56-1	mg/kg	EPA 8015D	24	0	0	430	0
Methyl tert-butyl ether (MTBE)	1634-04-4	ug/kg	EPA 8260B	24	0	0	1200	0
Methylene chloride	75-09-2	ug/kg	EPA 8260B	24	0	0	1200	0
Naphthalene	91-20-3	ug/kg	EPA 8270C SIM	24	0	0	68	0
Naphthalene (8260B)	91-20-3	ug/kg	EPA 8260B	24	0	0	1200	0
n-Butylbenzene	104-51-8	ug/kg	EPA 8260B	24	0	0	1200	0
n-Propylbenzene	103-65-1	ug/kg	EPA 8260B	24	0	0	1200	0
o-Dichlorobenzene	95-50-1	ug/kg	EPA 8260B	24	0	0	1200	0
o-Xylene	95-47-6	ug/kg	EPA 8260B	24	0	0	1200	0
p-Dichlorobenzene	106-46-7	ug/kg	EPA 8260B	24	0	0	1200	0

Analyte	CAS Number	Units	Method	N Samples	Maximum Value Measured	No. of Samples with Analyte Detected	Reporting Limit	Percent of Samples with Analyte Detected
Phenanthrene	85-01-8	ug/kg	EPA 8270C SIM	24	0	0	68	0
Phenol	108-95-2	mg/kg	EPA 8270C	24	0	0	0.45	0
p-Isopropyltoluene	99-87-6	ug/kg	EPA 8260B	24	0	0	1200	0
Pyrene	129-00-0	ug/kg	EPA 8270C SIM	24	0	0	68	0
Pyridine	110-86-1	mg/kg	EPA 8270C	24	0	0	0.9	0
sec-Butylbenzene	135-98-8	ug/kg	EPA 8260B	24	0	0	1200	0
Styrene	100-42-5	ug/kg	EPA 8260B	24	0	0	1200	0
tert-Butylbenzene	98-06-6	ug/kg	EPA 8260B	24	0	0	1200	0
Tetrachloroethene	127-18-4	ug/kg	EPA 8260B	24	0	0	1200	0
Toluene	108-88-3	ug/kg	EPA 8260B	24	0	0	1200	0
trans-1,2-Dichloroethene	156-60-5	ug/kg	EPA 8260B	24	0	0	1200	0
trans-1,3-Dichloropropene	10061-02-6	ug/kg	EPA 8260B	24	0	0	1200	0
Trichloroethene	79-01-6	ug/kg	EPA 8260B	24	0	0	1200	0
Trichlorofluoromethane	75-69-4	ug/kg	EPA 8260B	24	0	0	1200	0
Vinyl chloride	75-01-4	ug/kg	EPA 8260B	24	0	0	1200	0

Table 4. Chemicals used on oil fields that contribute produced water for irrigation that were identified as of potential chemicals of interest to the Food Safety Panel (Shonkoff *et al.* 2016). Chemicals noted as solid, gas, or "labile in the environment" are not thought to be of concern in the context of irrigated agriculture. Chemicals noted as "mixtures" are not measured, but in some cases components of the mixtures are measured. Notes referencing "EPA" followed by an alpha-numeric code refer to U.S. Environmental Protection Agency methods of analysis that were used in this study to measure the indicated compound.

Name	CASRN	Included in 2017 Analysis	Notes
Ethylbenzene	100-41-4	Yes	EPA 8260B
Ethylene glycol	107-21-1	No	Labile in environment
Toluene	108-88-3	Yes	EPA 8260B
Antimony trioxide	1309-64-4	Yes	EPA 6020A/6020B
Lithium carbonate	554-13-2	Yes	EPA 6010B
Methanol	67-56-1	Yes	EPA 8015D
Naphthalene	91-20-3	Yes	EPA 8270C-SIM/8260B
Cumene (isopropylbenzene)	98-82-8	Yes	EPA 8260B
Xylenes	1330-20-7	Yes	EPA 8260B
1,3,5 Trimethylbenzene	108-67-8	Yes	EPA 8260B
Isoquinoline	119-65-3	No	
1,2,3 Trimethylbenzene	526-73-8	No	
Siloxanes and silicones	63148-62-9	No	
Glutaraldehyde	111-30-8	No	Labile in environment
Hydroquinone	123-31-9	No	
Lithium hypochlorite	13840-33-0	Yes	EPA 6020A/6020B
Sodium dichloroisocyanurate	2893-78-9	No	
Heavy aromatic naphtha	64742-94-5	No	Mixture
Iodine	7553-56-2	No	
Zinc chloride	7646-85-7	Yes	EPA 6020A/6020B
Hydrochloric acid	7647-01-0	No	Labile in environment
Sodium hypochlorite	7681-52-9	No	Labile in environment
Copper sulfate pentahydrate	7758-99-8	Yes	EPA 6020A/6020B
Hydrotreated light distillate	64742-47-8	No	Mixture
Stearic acid	57-11-4	No	Labile in environment
Kerosene	8008-20-6	No	Mixture
Dinonylphenyl polyoxyethylene	9014-93-1	No	
Acrolein	107-02-8	Yes	EPA 8260B
Propargyl alcohol	107-19-7	No	Labile in environment
Cyclohexylamine	108-91-8	No	
Ethyl acetate	141-78-6	No	Labile in environment
Stoddard solvents	8052-41-3	No	Mixture
Crystalline silica (quartz)	14808-60-7	No	Solid
Xenon radionuclide	14932-42-4	No	Gas

Name	CASRN	Included in 2017 Analysis	Notes
Silica, crystalline, tridymite	15468-32-3	No	Solid
Ethanol	64-17-5	No	Labile in environment
Sulfuric acid	7664-93-9	No	Labile in environment
Nickel sulfate	7786-81-4	Yes	EPA 6020A/6020B
Hydrofluoric acid	7664-39-3	No	Labile in environment
Aluminum chloride hydroxide	12042-91-0	No	
Aluminum stearate	300-92-5	No	
Lithium chlorate	36355-96-1	Yes	EPA 6020A/6020B
Polyamine	64114-46-1	No	
Coke, petroleum, calcined	64743-05-1	No	Solid
Fatty acid oxyalkylate	70142-34-6	No	
Cellophane	9005-81-6	No	Solid

Table 5. Inorganic target analytes measured and number of samples that had detectable concentrations of the target analyte.

Analyte	CAS Number	Units	Method	N Samples	Maximum Value Measured	No. of Samples with Analyte Detected	Reporting Limit	Percent of Samples with Analyte Detected
Antimony, Total	7440-36-0	mg/kg	EPA 6020B	24	0	0	0.5	0
Arsenic, Total	7440-38-2	mg/kg	EPA 6020B	24	0	0	0.5	0
Barium, Total	7440-39-3	mg/kg	EPA 6020B	24	2.1	22	0.5	91.7
Beryllium, Total	7440-41-7	mg/kg	EPA 6020B	24	0	0	0.6	0
Cadmium, Total	7440-43-9	mg/kg	EPA 6020B	24	0	0	0.2	0
Chromium, Total	7440-47-3	mg/kg	EPA 6020B	24	0	0	1	0
Cobalt, Total	7440-48-4	mg/kg	EPA 6020B	24	0	0	0.5	0
Copper, Total	7440-50-8	mg/kg	EPA 6020B	24	9.9	24	0.5	100
Lead, Total	7439-92-1	mg/kg	EPA 6020B	24	0	0	0.5	0
Lithium, Total	7439-93-2	mg/kg	EPA 6010B	24	0	0	5	0
Molybdenum, Total	7439-98-7	mg/kg	EPA 6020B	24	0.6	2	0.5	8.3
Nickel, Total	7440-02-0	mg/kg	EPA 6020B	24	1.3	5	1	20.8
Selenium, Total	7782-49-2	mg/kg	EPA 6020B	24	0	0	0.5	0
Silver, Total	7440-22-4	mg/kg	EPA 6020B	24	0	0	0.5	0
Strontium, Total	7440-24-6	mg/kg	EPA 6020B	24	11	24	0.5	100
Thallium, Total	7440-28-0	mg/kg	EPA 6020B	24	0	0	0.5	0
Vanadium, Total	7440-62-2	mg/kg	EPA 6020B	24	0	0	1	0
Zinc, Total	7440-66-6	mg/kg	EPA 6020B	24	36	24	5	100

Figures

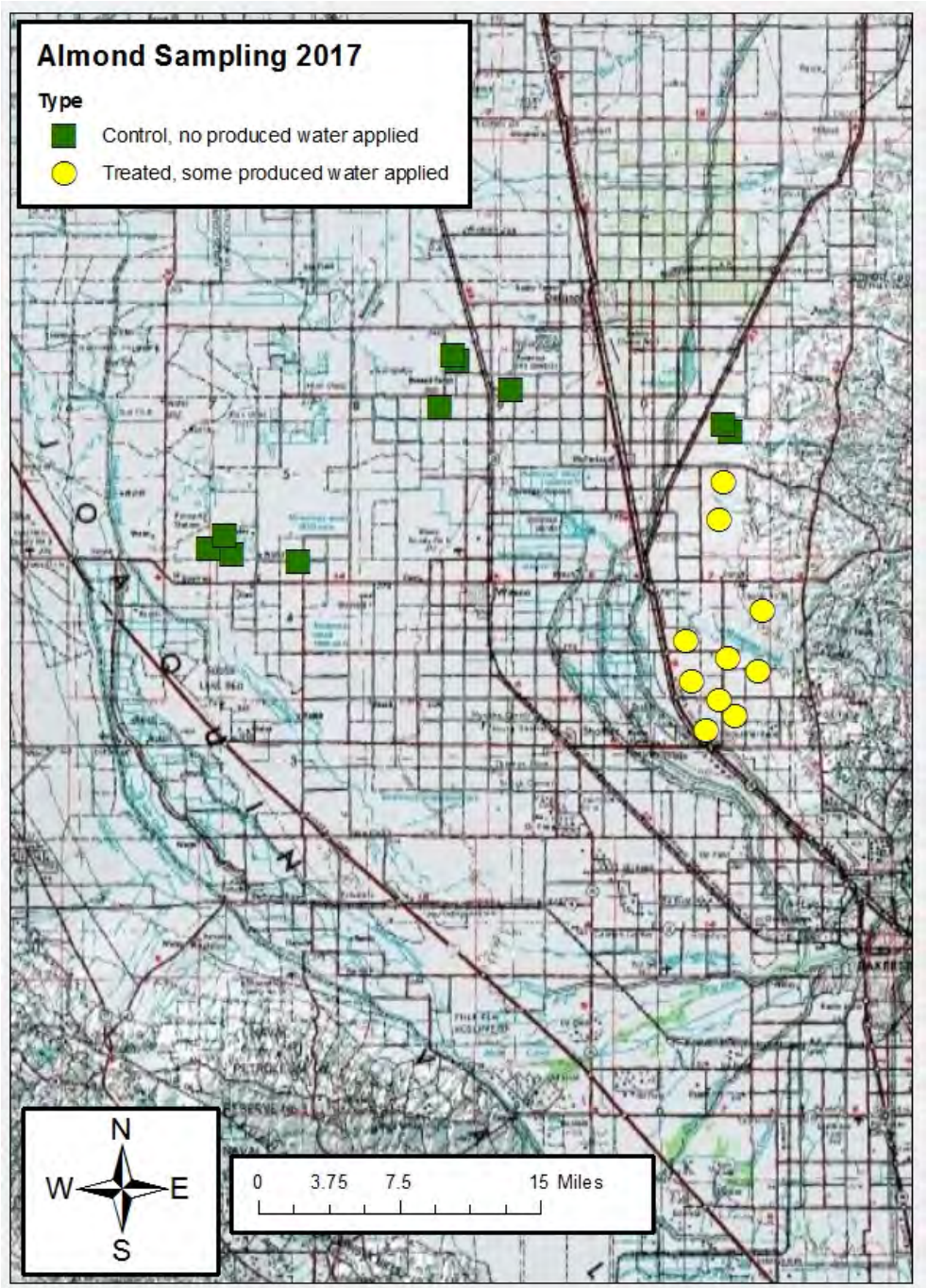
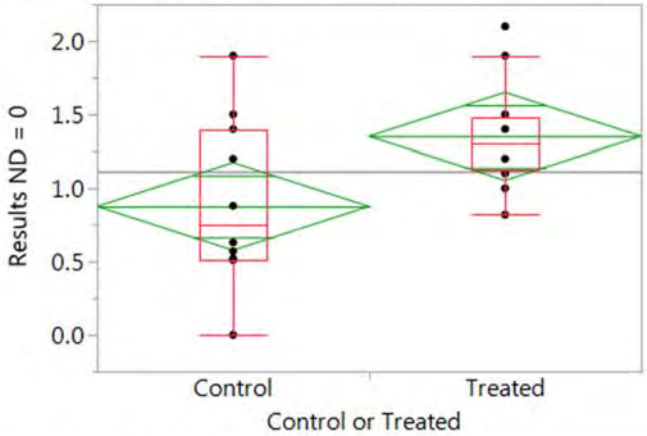


Figure 1. Map of sampling locations.

Oneway Analysis of Results ND = 0 By Control or Treated Crop Type 2=Almond, ANALYTE=Barium, Total



Oneway Anova

Summary of Fit

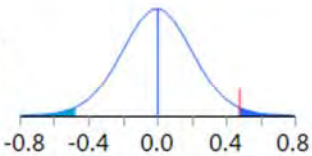
Rsquare	0.198944
Adj Rsquare	0.162533
Root Mean Square Error	0.498637
Mean of Response	1.11375
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	0.475833	t Ratio	2.337469
Std Err Dif	0.203568	DF	22
Upper CL Dif	0.898007	Prob > |t|	0.0289*
Lower CL Dif	0.053660	Prob > t	0.0145*
Confidence	0.95	Prob < t	0.9855



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	1.3585042	1.35850	5.4638	0.0289*
Error	22	5.4700583	0.24864		
C. Total	23	6.8285625			

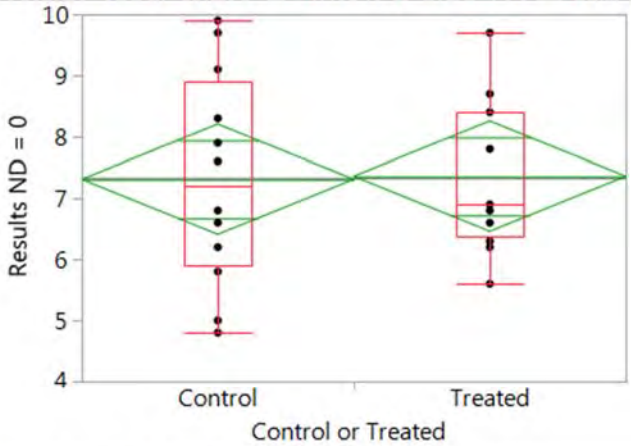
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	0.87583	0.14394	0.5773	1.1744
Treated	12	1.35167	0.14394	1.0531	1.6502

Std Error uses a pooled estimate of error variance

Figure 2. Comparison of concentrations of total barium in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) had significantly more barium on average than almonds from areas that did not receive produced water (controls). Barium is a naturally occurring element found in soil and fresh water and is also used as a chemical additive during the drilling of oil wells. These barium concentrations are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2007).

Oneway Analysis of Results ND = 0 By Control or Treated Crop Type 2=Almond, ANALYTE=Copper, Total



Oneway Anova

Summary of Fit

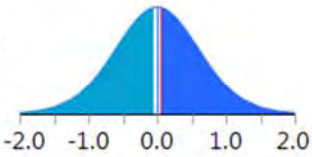
Rsquare	0.000303
Adj Rsquare	-0.04514
Root Mean Square Error	1.499369
Mean of Response	7.333333
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	0.0500	t Ratio	0.081684
Std Err Dif	0.6121	DF	22
Upper CL Dif	1.3194	Prob > |t|	0.9356
Lower CL Dif	-1.2194	Prob > t	0.4678
Confidence	0.95	Prob < t	0.5322



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	0.015000	0.01500	0.0067	0.9356
Error	22	49.458333	2.24811		
C. Total	23	49.473333			

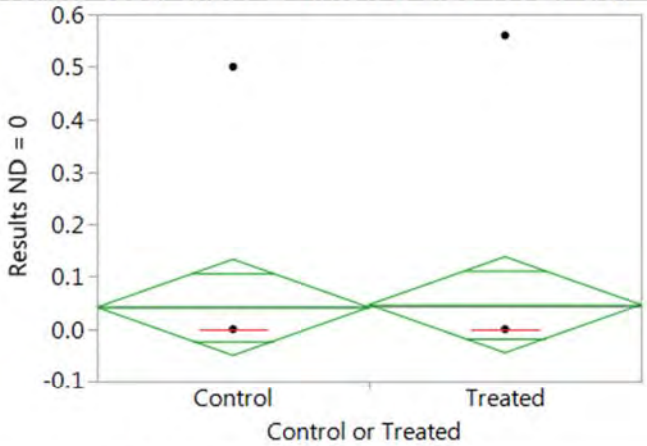
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	7.30833	0.43283	6.4107	8.2060
Treated	12	7.35833	0.43283	6.4607	8.2560

Std Error uses a pooled estimate of error variance

Figure 3. Comparison of concentrations of total copper in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) did not have significantly higher copper concentrations on average than almonds from areas that did not receive produced water (controls). Copper is a naturally occurring element found in soil and fresh water and is also used as a chemical additive during oil field operations. These copper concentrations are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2004a).

Oneway Analysis of Results ND = 0 By Control or Treated Crop Type 2=Almond, ANALYTE=Molybdenum, Total



Oneway Anova

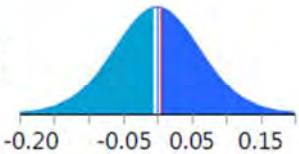
Summary of Fit

Rsquare	0.00029
Adj Rsquare	-0.04515
Root Mean Square Error	0.153243
Mean of Response	0.044167
Observations (or Sum Wgts)	24

t Test

Treated-Control
Assuming equal variances

Difference	0.00500	t Ratio	0.079922
Std Err Dif	0.06256	DF	22
Upper CL Dif	0.13474	Prob > |t|	0.9370
Lower CL Dif	-0.12474	Prob > t	0.4685
Confidence	0.95	Prob < t	0.5315



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	0.00015000	0.000150	0.0064	0.9370
Error	22	0.51663333	0.023483		
C. Total	23	0.51678333			

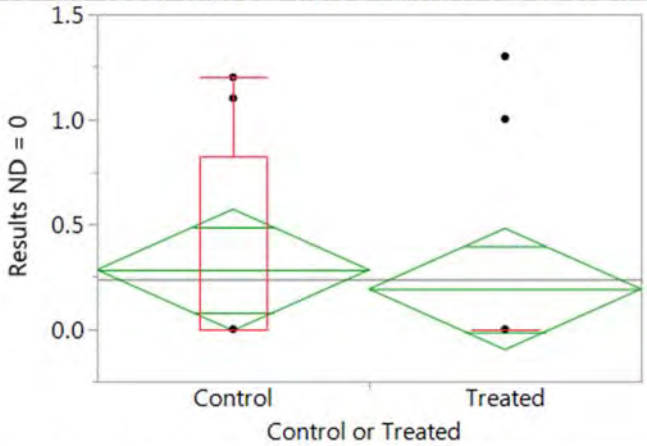
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	0.041667	0.04424	-0.0501	0.13341
Treated	12	0.046667	0.04424	-0.0451	0.13841

Std Error uses a pooled estimate of error variance

Figure 4. Comparison of concentrations of total molybdenum in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) did not have significantly higher molybdenum concentrations on average than almonds from areas that did not receive produced water (controls). Molybdenum is a naturally occurring element found in soil and fresh water and these molybdenum concentrations are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2017).

Oneway Analysis of Results ND = 0 By Control or Treated Crop Type 2=Almond, ANALYTE=Nickel, Total



Oneway Anova

Summary of Fit

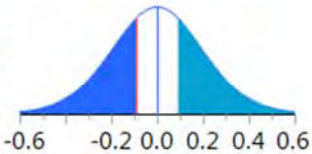
Rsquare	0.009703
Adj Rsquare	-0.03531
Root Mean Square Error	0.483634
Mean of Response	0.2375
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	-0.09167	t Ratio	-0.46427
Std Err Dif	0.19744	DF	22
Upper CL Dif	0.31780	Prob > |t|	0.6470
Lower CL Dif	-0.50114	Prob > t	0.6765
Confidence	0.95	Prob < t	0.3235



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	0.0504167	0.050417	0.2155	0.6470
Error	22	5.1458333	0.233902		
C. Total	23	5.1962500			

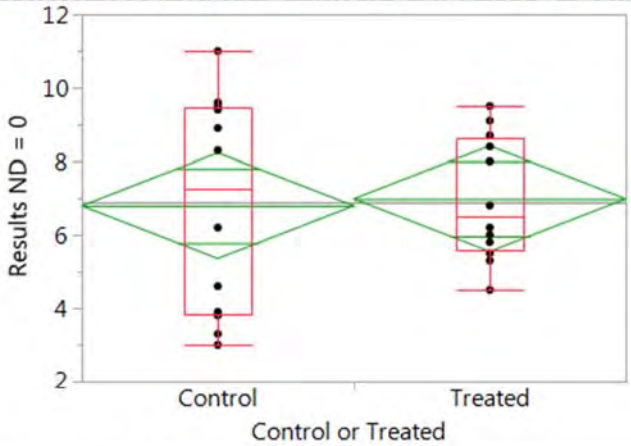
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	0.283333	0.13961	-0.0062	0.57287
Treated	12	0.191667	0.13961	-0.0979	0.48121

Std Error uses a pooled estimate of error variance

Figure 5. Comparison of concentrations of total nickel in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) did not have significantly higher nickel concentrations on average than almonds from areas that did not receive produced water (controls). Nickel is a naturally occurring element found in soil and fresh water and is also used as a chemical additive during oil field operations. These nickel concentrations are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2005).

Oneway Analysis of Results ND = 0 By Control or Treated Crop Type 2=Almond, ANALYTE=Strontium, Total



Oneway Anova

Summary of Fit

Rsquare	0.001739
Adj Rsquare	-0.04364
Root Mean Square Error	2.397971
Mean of Response	6.8875
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	0.1917	t Ratio	0.195784
Std Err Dif	0.9790	DF	22
Upper CL Dif	2.2219	Prob > |t|	0.8466
Lower CL Dif	-1.8386	Prob > t	0.4233
Confidence	0.95	Prob < t	0.5767

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	0.22042	0.22042	0.0383	0.8466
Error	22	126.50583	5.75027		
C. Total	23	126.72625			

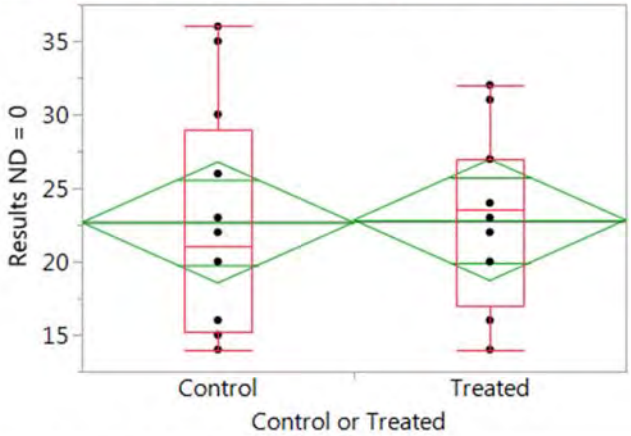
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	6.79167	0.69223	5.3561	8.2273
Treated	12	6.98333	0.69223	5.5477	8.4189

Std Error uses a pooled estimate of error variance

Figure 6. Comparison of concentrations of total strontium in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) did not have significantly higher strontium concentrations on average than almonds from areas that did not receive produced water (controls). Strontium is a naturally occurring element found in soil and fresh water and these strontium concentrations are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2004b).

Oneway Analysis of Results ND = 0 By Control or Treated Crop Type 2=Almond, ANALYTE=Zinc, Total



Oneway Anova

Summary of Fit

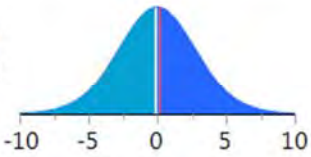
Rsquare	0.000159
Adj Rsquare	-0.04529
Root Mean Square Error	6.89642
Mean of Response	22.75
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	0.1667	t Ratio	0.059197
Std Err Dif	2.8155	DF	22
Upper CL Dif	6.0056	Prob > |t|	0.9533
Lower CL Dif	-5.6722	Prob > t	0.4767
Confidence	0.95	Prob < t	0.5233



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	0.1667	0.1667	0.0035	0.9533
Error	22	1046.3333	47.5606		
C. Total	23	1046.5000			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	22.6667	1.9908	18.538	26.795
Treated	12	22.8333	1.9908	18.705	26.962

Std Error uses a pooled estimate of error variance

Figure 7. Comparison of concentrations of total zinc in almonds between treated and controls. Results show that almonds from areas that received produced water (treated) did not have significantly higher zinc concentrations on average than almonds from areas that did not receive produced water (controls). Zinc is a naturally occurring element found in soil and fresh water and is also used as a chemical additive during oil field operations. These zinc concentrations are within normal concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2005).

Appendix A - Chain of Custody & Analytical Results

COCs and Results Included in this Report:

COC Number	Sample Name	Crop Type
7H09100	Alm00-20170808-0955	Almond
7H09100	Alm06-20170808-1335	Almond
7H09100	Alm07-20170808-1405	Almond
7H09100	Alm08-20170808-1238	Almond
7H09100	Alm09-20170808-1115	Almond
7H09100	Alm10-20170808-1040	Almond
7H09100	Alm19-20170808-1012	Almond
7H09100	Alm20-20170808-0950	Almond
7H09100	Alm21-20170808-1045	Almond
7H09100	Quality Control Results	
7H10101	Alm00-20170809-0840	Almond
7H10101	Alm11-20170809-1200	Almond
7H10101	Alm12-20170809-1133	Almond
7H10101	Alm13-20170809-1220	Almond
7H10101	Alm14-20170809-1105	Almond
7H10101	Alm15-20170809-0930	Almond
7H10101	Alm16-20170809-0845	Almond
7H10101	Alm17-20170809-0908	Almond
7H10101	Alm18-20170809-0702	Almond
7H10101	Quality Control Results	
7H11055	Alm01-20170810-0915	Almond
7H11055	Alm02-20170810-0845	Almond
7H11055	Alm03-20170810-0822	Almond
7H11055	Alm04-20170810-0745	Almond
7H11055	Alm05-20170810-0645	Almond
7H11055	Alm21-20170810-0648	Almond
7H11055	Quality Control Results	

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Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Standard CHAIN OF CUSTODY RECORD

WECK WKO# 7H09100

CLIENT NAME: McMurtrey, Hartsock & Worth

PROJECT: McMurtrey, Hartsock & Worth

ADDRESS: Robert Hartsock
2001 22nd Street, Suite 100
Bakersfield, CA 93301

PHONE: 661-322-4417
FAX: 661-322-8123
EMAIL: robert@mcmurtreyhartsock.com

PROJECT MANAGER: A. Saucaux

SAMPLER: A. Saucaux

ANALYSES REQUESTED

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	VOCs (Full Scan 8260B)-See list	Select SVOCs (8270C-SIM)-See list	Metals (6010D/6020A/6020B)-See list	Methanol (8015D)
	8/8/17	0950	OT		AIM20-20170808-0950	1	/	/	/	/
	8/8/17	0955	OT		AIM00-20170808-0955	1	/	/	/	/
	8/8/17	1012	OT		AIM19-20170808-1012	1	/	/	/	/
	8/8/17	1040	OT		AIM10-20170808-1040	1	/	/	/	/
	8/8/17	1045	OT		AIM21-20170808-1045	1	/	/	/	/
	8/8/17	1115	OT		AIM09-20170808-1115	1	/	/	/	/
	8/8/17	1238	OT		AIM08-20170808-1238	1	/	/	/	/
	8/8/17	1335	OT		AIM06-20170808-1335	1	/	/	/	/
	8/8/17	1405	OT		AIM07-20170808-1405	1	/	/	/	/

SPECIAL HANDLING
- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

Note 1: See attached list for selected compounds for each method.

Note 2 (Almonds): Lab shall carefully remove hull and shell. Only typical edible portion of nut to be analyzed.

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
[signature]	8/8/17 3:10p	[signature]	8-8-17 3:10
		[signature]	8-9-17 09:40

SAMPLE CONDITION:
Actual Temperature: 9.7
Received On Ice: Y / N
Preserved: Y / N
Evidence Seals Present: Y / N
Container Attacked: Y / N
Preserved at Lab: Y / N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION
See Comments
FedEx # 779870496579

COC version 042707

APPENDIX C

Crop Sample Analysis Requests – August 7, 2017

Samples shall be analyzed for the following volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) and metals.

Full scan VOCs including:	EPA Method:
• 1,2,4-Trimethylbenzene	8260B
• Acetone	8260B
• Benzene	8260B
• Chloroform	8260B
• Ethylbenzene	8260B
• Toluene	8260B
• o-, m-, and p-Xylene	8260B

Additional VOCs to be analyzed:	EPA Method:
• Methanol	8015D

VOCs will be analyzed using U.S. Environmental Protection Agency (EPA) Method as noted.

The SVOCs to be analyzed:	EPA Method:
• 2-Methylnaphthalene	8270C-SIM
• Acenaphthene	8270C-SIM
• Acenaphthylene	8270C-SIM
• Anthracene	8270C-SIM
• Benzo (a) anthracene	8270C-SIM
• Benzo (a) pyrene	8270C-SIM
• Benzo (b) fluoranthene	8270C-SIM
• Benzo (g,h,i) perylene	8270C-SIM
• Benzo (k) fluoranthene	8270C-SIM
• Bis(2-ethylhexyl) phthalate	8270C
• Chrysene	8270C-SIM
• Dibenzo (a,h) anthracene	8270C-SIM
• Fluoranthene	8270C-SIM
• Fluorene	8270C-SIM
• Indeno (1,2,3-cd) pyrene	8270C-SIM
• Naphthalene	8270C-SIM
• Phenanthrene	8270C-SIM
• Pyrene	8270C-SIM
• *Carbazole*	8270C
• *Phenol*	8270C
• *Pyridine*	8270C

SVOCs will be analyzed using U.S. EPA Method as noted.
Note: Report any other calibrated peaks for EPA Method 8270C-SIM.

The Metals to be analyzed:	EPA Method:
• Antimony	6020A
• Arsenic	6020A
• Barium	6020A
• Beryllium	6020A
• Cadmium	6020A
• Chromium (total)	6020A
• Cobalt	6020A
• Copper	6020A
• Lead	6020A
• Lithium	6010D
• Molybdenum	6020A
• Nickel	6020A
• Selenium	6020A
• Silver	6020A
• Strontium	6020A
• Thallium	6020A
• Vanadium	6020B
• Zinc	6020A

Metals will be analyzed using U.S. EPA Method as noted.

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Standard CHAIN OF CUSTODY RECORD

WECK WKO# 7H10101

CLIENT NAME:	PROJECT:
McMurtrey, Hartsock & Worth	McMurtrey, Hartsock & Worth
ADDRESS: Robert Hartsock, 2001 22nd Street, Suite 100, Bakersfield, CA 93301	PHONE: 661-322-4417 FAX: 661-322-8123 EMAIL: robert@mcmurtreyhartsock.com
PROJECT MANAGER	SAMPLER

ANALYSES REQUESTED

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	VOCs (Full Scan 8260B)-See list	Select SVOCs (8270C-SIM)-See list	Metals (6010D/6020A/6020B)-See list	Methanol (8015D)
	8/9/17	0702			AIM18-20170809-0702	1	/	/	/	/
	8/9/17	0840			AIM00-20170809-0840	1	/	/	/	/
	8/9/17	0845			AIM16-20170809-0845	1	/	/	/	/
	8/9/17	0908			AIM17-20170809-0908	1	/	/	/	/
	8/9/17	0930			AIM15-20170809-0930	1	/	/	/	/
	8/9/17	1105			AIM14-20170809-1105	1	/	/	/	/
	8/9/17	1133			AIM12-20170809-1133	1	/	/	/	/
	8/9/17	1200			AIM11-20170809-1200	1	/	/	/	/
	8/9/17	1220			AIM13-20170809-1220	1	/	/	/	/

SPECIAL HANDLING
- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

Note 1: See attached list for selected compounds for each method.

Note 2 (Almonds): Lab shall carefully remove hull and shell. Only typical edible portion of nut to be analyzed.

Temp. was taken in F° instead of C°

ice melted

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
[signature]	8/9/17 4:00 pm	[signature]	8/9/17 1600
[signature]	8/9/17 1606	Fedex 7798 9671 2574	
[signature]		[signature]	~~8/9/17~~ 9:45 8/10/17

SAMPLE CONDITION
Actual Temperature: ~~47.8°C~~ 8.3°C
Received On Ice: Y / N
Preserved: Y / N
Evidence Seals Present: Y / N
Container Attacked: Y / N
Preserved at Lab: Y / N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRE-SCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
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SPECIAL REQUIREMENTS / BILLING INFORMATION

COC version 042707

APPENDIX C

Crop Sample Analysis Requests – August 7, 2017

Samples shall be analyzed for the following volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) and metals.

Full scan VOCs including:	EPA Method:
• 1,2,4-Trimethylbenzene	8260B
• Acetone	8260B
• Benzene	8260B
• Chloroform	8260B
• Ethylbenzene	8260B
• Toluene	8260B
• o-, m-, and p-Xylene	8260B

Additional VOCs to be analyzed:	EPA Method:
• Methanol	8015D

VOCs will be analyzed using U.S. Environmental Protection Agency (EPA) Method as noted.

The SVOCs to be analyzed:	EPA Method:
• 2-Methylnaphthalene	8270C-SIM
• Acenaphthene	8270C-SIM
• Acenaphthylene	8270C-SIM
• Anthracene	8270C-SIM
• Benzo (a) anthracene	8270C-SIM
• Benzo (a) pyrene	8270C-SIM
• Benzo (b) fluoranthene	8270C-SIM
• Benzo (g,h,i) perylene	8270C-SIM
• Benzo (k) fluoranthene	8270C-SIM
• Bis(2-ethylhexyl) phthalate	8270C
• Chrysene	8270C-SIM
• Dibenzo (a,h) anthracene	8270C-SIM
• Fluoranthene	8270C-SIM
• Fluorene	8270C-SIM
• Indeno (1,2,3-cd) pyrene	8270C-SIM
• Naphthalene	8270C-SIM
• Phenanthrene	8270C-SIM
• Pyrene	8270C-SIM
• *Carbazole*	8270C
• *Phenol*	8270C
• *Pyridine*	8270C

SVOCs will be analyzed using U.S. EPA Method as noted.
Note: Report any other calibrated peaks for EPA Method 8270C-SIM.

The Metals to be analyzed:	EPA Method:
• Antimony	6020A
• Arsenic	6020A
• Barium	6020A
• Beryllium	6020A
• Cadmium	6020A
• Chromium (total)	6020A
• Cobalt	6020A
• Copper	6020A
• Lead	6020A
• Lithium	6010D
• Molybdenum	6020A
• Nickel	6020A
• Selenium	6020A
• Silver	6020A
• Strontium	6020A
• Thallium	6020A
• Vanadium	6020B
• Zinc	6020A

Metals will be analyzed using U.S. EPA Method as noted.

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Standard CHAIN OF CUSTODY RECORD

WECK WKO# 7H11055

CLIENT NAME: McMurtrey, Hartsock & Worth

PROJECT: McMurtrey, Hartsock & Worth

ADDRESS: Robert Hartsock, 2001 22nd Street, Suite 100, Bakersfield, CA 93301

PHONE: 661-322-4417
FAX: 661-322-8123
EMAIL: robert@mcmurtreyhartsock.com

PROJECT MANAGER: A. Saccamp

SAMPLER: A. Saccamp

ANALYSES REQUESTED

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	VOCs (Full Sc 8260B)-See list	Select SVOC 270C-SIM)-See list	Metals (6010D/6020A/6020B)-See list	Methanol (8015D)
	8/10/17	0645	OT		A1M05-20170810-0645	1	/	/	/	/
	8/10/17	0648	OT		A1M21-20170810-0648	1	/	/	/	/
	8/10/17	0745	OT		A1M04-20170810-0745	1	/	/	/	/
	8/10/17	0822	OT		A1M03-20170810-0822	1	/	/	/	/
	8/10/17	0845	OT		A1M02-20170810-0845	1	/	/	/	/
	8/10/17	0915	OT		A1M01-20170810-0915	1	/	/	/	/

SPECIAL HANDLING
- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

Note 1: See attached list for selected compounds for each method.

Note 2 (Almonds): Lab shall carefully remove hull and shell. Only typical edible portion of nut to be analyzed.

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
A. Saccamp	8/10/17 1204	[illegible]	8/10/17 1205
[illegible]	8/10/17 1206	Fedex 7799 1339 4010	
FedEx		[illegible]	8/11/17 10:24

SAMPLE CONDITION:
Actual Temperature: 4.8°C
Received On Ice: Y N
Preserved: Y N
Evidence Seals Present: Y N
Container Attacked: Y N
Preserved at Lab: Y N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION

COC version 042707

APPENDIX C

Crop Sample Analysis Requests – August 7, 2017

Samples shall be analyzed for the following volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) and metals.

Full scan VOCs including:	EPA Method:
• 1,2,4-Trimethylbenzene	8260B
• Acetone	8260B
• Benzene	8260B
• Chloroform	8260B
• Ethylbenzene	8260B
• Toluene	8260B
• o-, m-, and p-Xylene	8260B

Additional VOCs to be analyzed:	EPA Method:
• Methanol	8015D

VOCs will be analyzed using U.S. Environmental Protection Agency (EPA) Method as noted.

The SVOCs to be analyzed:	EPA Method:
• 2-Methylnaphthalene	8270C-SIM
• Acenaphthene	8270C-SIM
• Acenaphthylene	8270C-SIM
• Anthracene	8270C-SIM
• Benzo (a) anthracene	8270C-SIM
• Benzo (a) pyrene	8270C-SIM
• Benzo (b) fluoranthene	8270C-SIM
• Benzo (g,h,i) perylene	8270C-SIM
• Benzo (k) fluoranthene	8270C-SIM
• Bis(2-ethylhexyl) phthalate	8270C
• Chrysene	8270C-SIM
• Dibenzo (a,h) anthracene	8270C-SIM
• Fluoranthene	8270C-SIM
• Fluorene	8270C-SIM
• Indeno (1,2,3-cd) pyrene	8270C-SIM
• Naphthalene	8270C-SIM
• Phenanthrene	8270C-SIM
• Pyrene	8270C-SIM
• *Carbazole*	8270C
• *Phenol*	8270C
• *Pyridine*	8270C

SVOCs will be analyzed using U.S. EPA Method as noted.
Note: Report any other calibrated peaks for EPA Method 8270C-SIM.

The Metals to be analyzed:	EPA Method:
• Antimony	6020A
• Arsenic	6020A
• Barium	6020A
• Beryllium	6020A
• Cadmium	6020A
• Chromium (total)	6020A
• Cobalt	6020A
• Copper	6020A
• Lead	6020A
• Lithium	6010D
• Molybdenum	6020A
• Nickel	6020A
• Selenium	6020A
• Silver	6020A
• Strontium	6020A
• Thallium	6020A
• Vanadium	6020B
• Zinc	6020A

Metals will be analyzed using U.S. EPA Method as noted.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	7H09100	**Report Date:**	10/23/2017
		Received Date:	8/9/2017
Project:	Cawelo Water District Orchard+Vineyard Sampling	**Turnaround Time:**	Normal
		Phones:	(661) 322-4417
		Fax:	-
Attn:	Robert Hartsock	**P.O. #:**	
Client:	Law Offices of McMurtrey, Hartsock & Worth 2001 22nd Street, Suite 100 Bakersfield, CA 93301	**Billing Code:**	

DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Robert Hartsock,

Enclosed are the results of analyses for samples received 8/09/17 with the Chain-of-Custody document. The samples were received in good condition, at 9.7 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Chris Samatmanakit
Project Manager

14859 East Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Law Offices of McMurtrey, Hartsock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project Number: Cawelo Water District Orchard+Vineyard Sampling

Project Manager: Robert Hartsock

Reported: 10/23/2017 15:32

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Alm20-20170808-0950	April Saceaux	7H09100-01	Solid	08/08/17 09:50	
Alm00-20170808-0955	April Saceaux	7H09100-02	Solid	08/08/17 09:55	
Alm19-20170808-1012	April Saceaux	7H09100-03	Solid	08/08/17 10:12	
Alm10-20170808-1040	April Saceaux	7H09100-04	Solid	08/08/17 10:40	
Alm21-20170808-1045	April Saceaux	7H09100-05	Solid	08/08/17 10:45	
Alm09-20170808-1115	April Saceaux	7H09100-06	Solid	08/08/17 11:15	
Alm08-20170808-1238	April Saceaux	7H09100-07	Solid	08/08/17 12:38	
Alm06-20170808-1335	April Saceaux	7H09100-08	Solid	08/08/17 13:35	
Alm07-20170808-1405	April Saceaux	7H09100-09	Solid	08/08/17 14:05	

Law Offices of McMurtrey, Hartsock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project Number: Cawelo Water District Orchard+Vineyard Sampling
Project Manager: Robert Hartsock

Reported: 10/23/2017 15:32

Sample Results

Sample: Alm20-20170808-0950
7H09100-01 (Solid)

Sampled: 08/08/17 9:50 by April Saceaux

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	440	mg/kg	20	09/12/17 18:50	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 16:37	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 15:16	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 15:16	
Barium, Total	**1.2**	0.50	mg/kg	1	09/14/17 15:16	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:34	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 15:16	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 15:16	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 15:16	
Copper, Total	**9.9**	0.50	mg/kg	1	09/14/17 15:16	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 15:16	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 15:16	
Nickel, Total	**1.1**	1.0	mg/kg	1	09/14/17 15:16	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 15:16	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 15:16	
Strontium, Total	**9.4**	0.50	mg/kg	1	09/14/17 15:16	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 15:16	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 15:16	
Zinc, Total	**36**	5.0	mg/kg	1	09/14/17 15:16	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0292	**Prepared:** 09/07/17 09:38				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.43	mg/kg	1	09/16/17 04:38	M-02
Carbazole	ND	0.43	mg/kg	1	09/16/17 04:38	M-02
Phenol	ND	0.43	mg/kg	1	09/16/17 04:38	M-02
Pyridine	ND	0.86	mg/kg	1	09/16/17 04:38	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*45% Conc: 1.95*	*32-103*			*09/16/17 04:38*	*M-02*
2-Fluorobiphenyl	*43% Conc: 0.920*	*36-107*			*09/16/17 04:38*	*M-02*
2-Fluorophenol	*28% Conc: 1.19*	*33-119*			*09/16/17 04:38*	*M-02, S-GC*
Nitrobenzene-d5	*37% Conc: 0.795*	*36-114*			*09/16/17 04:38*	*M-02*
Phenol-d5	*46% Conc: 1.99*	*40-118*			*09/16/17 04:38*	*M-02*
Terphenyl-d14	*5% Conc: 0.102*	*40-121*			*09/16/17 04:38*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Alm20-20170808-0950 — Sampled: 08/08/17 9:50 by April Saceaux

7H09100-01 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7I0295	**Prepared:** 09/07/17 09:43				**Analyst:** etn
1-Methylnaphthalene	ND	65	ug/kg	1	09/13/17 22:46	M-02
2-Methylnaphthalene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Acenaphthene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Acenaphthylene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Anthracene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Benzo (a) anthracene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Benzo (a) pyrene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Benzo (b) fluoranthene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Benzo (g,h,i) perylene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Benzo (k) fluoranthene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Chrysene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Dibenzo (a,h) anthracene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Fluoranthene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Fluorene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Indeno (1,2,3-cd) pyrene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Naphthalene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Phenanthrene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Pyrene	ND	65	ug/kg	1	09/13/17 22:46	M-02
Surrogate(s)						
2-Fluorobiphenyl	*62%*	*Conc: 1340*	*0.1-109*		*09/13/17 22:46*	*M-02*
Nitrobenzene-d5	*44%*	*Conc: 953*	*0.1-107*		*09/13/17 22:46*	*M-02*
Terphenyl-d14	*35%*	*Conc: 744*	*28-128*		*09/13/17 22:46*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0154	**Prepared:** 09/05/17 14:56				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 00:42	M-04

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm20-20170808-0950 — Sampled: 08/08/17 9:50 by April Saceaux

7H09100-01 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 00:42	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 00:42	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 00:42	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 00:42	M-04

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Sample Results

(Continued)

Sample: Alm20-20170808-0950 — Sampled: 08/08/17 9:50 by April Saceaux

7H09100-01 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
o-Xylene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Styrene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Toluene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Trichloroethene	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/08/17 00:42	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*92%*	*Conc: 225*	*78-140*		*09/08/17 00:42*	*M-04*
4-Bromofluorobenzene	*98%*	*Conc: 241*	*85-116*		*09/08/17 00:42*	*M-04*
Dibromofluoromethane	*94%*	*Conc: 231*	*84-120*		*09/08/17 00:42*	*M-04*
Toluene-d8	*109%*	*Conc: 268*	*82-120*		*09/08/17 00:42*	*M-04*

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Sample Results

(Continued)

Sample: Alm00-20170808-0955 — Sampled: 08/08/17 9:55 by April Saceaux

7H09100-02 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	500	mg/kg	20	09/12/17 19:20	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 16:39	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 15:23	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 15:23	
Barium, Total	**1.5**	0.50	mg/kg	1	09/14/17 15:23	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:36	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 15:23	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 15:23	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 15:23	
Copper, Total	**9.1**	0.50	mg/kg	1	09/14/17 15:23	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 15:23	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 15:23	
Nickel, Total	**1.1**	1.0	mg/kg	1	09/14/17 15:23	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 15:23	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 15:23	
Strontium, Total	**11**	0.50	mg/kg	1	09/14/17 15:23	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 15:23	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 15:23	
Zinc, Total	**35**	5.0	mg/kg	1	09/14/17 15:23	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0292	**Prepared:** 09/07/17 09:38				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.47	mg/kg	1	09/16/17 05:09	M-02
Carbazole	ND	0.47	mg/kg	1	09/16/17 05:09	M-02
Phenol	ND	0.47	mg/kg	1	09/16/17 05:09	M-02
Pyridine	ND	0.94	mg/kg	1	09/16/17 05:09	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*35% Conc: 1.65*	*32-103*			*09/16/17 05:09*	*M-02*
2-Fluorobiphenyl	*42% Conc: 0.986*	*36-107*			*09/16/17 05:09*	*M-02*
2-Fluorophenol	*34% Conc: 1.58*	*33-119*			*09/16/17 05:09*	*M-02*
Nitrobenzene-d5	*36% Conc: 0.849*	*36-114*			*09/16/17 05:09*	*M-02*
Phenol-d5	*51% Conc: 2.39*	*40-118*			*09/16/17 05:09*	*M-02*
Terphenyl-d14	*% Conc: 0.00*	*40-121*			*09/16/17 05:09*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Alm00-20170808-0955 — Sampled: 08/08/17 9:55 by April Saceaux

7H09100-02 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7I0295	**Prepared:** 09/07/17 09:43				**Analyst:** etn
1-Methylnaphthalene	ND	70	ug/kg	1	09/13/17 23:19	M-02
2-Methylnaphthalene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Acenaphthene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Acenaphthylene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Anthracene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Benzo (a) anthracene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Benzo (a) pyrene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Benzo (b) fluoranthene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Benzo (g,h,i) perylene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Benzo (k) fluoranthene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Chrysene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Dibenzo (a,h) anthracene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Fluoranthene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Fluorene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Indeno (1,2,3-cd) pyrene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Naphthalene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Phenanthrene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Pyrene	ND	70	ug/kg	1	09/13/17 23:19	M-02
Surrogate(s)						
2-Fluorobiphenyl	*63%*	*Conc: 1480*	*0.1-109*		*09/13/17 23:19*	*M-02*
Nitrobenzene-d5	*43%*	*Conc: 1020*	*0.1-107*		*09/13/17 23:19*	*M-02*
Terphenyl-d14	*29%*	*Conc: 687*	*28-128*		*09/13/17 23:19*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0154	**Prepared:** 09/05/17 14:56				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 01:12	M-04

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Sample Results

(Continued)

Sample: Alm00-20170808-0955
7H09100-02 (Solid)

Sampled: 08/08/17 9:55 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 01:12	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 01:12	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 01:12	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 01:12	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 01:12	M-04

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm00-20170808-0955 — Sampled: 08/08/17 9:55 by April Saceaux

7H09100-02 (Solid) (Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
n-Butylbenzene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
n-Propylbenzene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
o-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
o-Xylene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
p-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
p-Isopropyltoluene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
sec-Butylbenzene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
Styrene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
tert-Butylbenzene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
Tetrachloroethene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
Toluene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
Trichloroethene	ND		1200	ug/kg	50	09/08/17 01:12	M-04
Trichlorofluoromethane	ND		1200	ug/kg	50	09/08/17 01:12	M-04
Vinyl chloride	ND		1200	ug/kg	50	09/08/17 01:12	M-04
Surrogate(s)							
1,2-Dichloroethane-d4	*94%*	*Conc: 219*	*78-140*			*09/08/17 01:12*	*M-04*
4-Bromofluorobenzene	*102%*	*Conc: 237*	*85-116*			*09/08/17 01:12*	*M-04*
Dibromofluoromethane	*94%*	*Conc: 220*	*84-120*			*09/08/17 01:12*	*M-04*
Toluene-d8	*108%*	*Conc: 252*	*82-120*			*09/08/17 01:12*	*M-04*

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Sample Results

(Continued)

Sample: Alm19-20170808-1012
7H09100-03 (Solid)

Sampled: 08/08/17 10:12 by April Saceaux

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	470	mg/kg	20	09/12/17 19:50	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 16:42	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Barium, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:39	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 15:30	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 15:30	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Copper, Total	**7.9**	0.50	mg/kg	1	09/14/17 15:30	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Nickel, Total	**1.2**	1.0	mg/kg	1	09/14/17 15:30	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Strontium, Total	**8.3**	0.50	mg/kg	1	09/14/17 15:30	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 15:30	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 15:30	
Zinc, Total	**26**	5.0	mg/kg	1	09/14/17 15:30	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0292	**Prepared:** 09/07/17 09:38				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.46	mg/kg	1	09/16/17 05:39	M-02
Carbazole	ND	0.46	mg/kg	1	09/16/17 05:39	M-02
Phenol	ND	0.46	mg/kg	1	09/16/17 05:39	M-02
Pyridine	ND	0.92	mg/kg	1	09/16/17 05:39	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*24%*	*Conc: 1.09*	*32-103*		*09/16/17 05:39*	*S-GC, M-02*
2-Fluorobiphenyl	*36%*	*Conc: 0.828*	*36-107*		*09/16/17 05:39*	*M-02*
2-Fluorophenol	*26%*	*Conc: 1.18*	*33-119*		*09/16/17 05:39*	*S-GC, M-02*
Nitrobenzene-d5	*27%*	*Conc: 0.625*	*36-114*		*09/16/17 05:39*	*S-GC, M-02*
Phenol-d5	*40%*	*Conc: 1.85*	*40-118*		*09/16/17 05:39*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/16/17 05:39*	*S-GC, M-02*

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Sample Results

(Continued)

Sample: Alm19-20170808-1012 — Sampled: 08/08/17 10:12 by April Saceaux

7H09100-03 (Solid)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM — **Batch ID:** W7I0295 — **Prepared:** 09/07/17 09:43 — **Analyst:** etn						
1-Methylnaphthalene	ND	69	ug/kg	1	09/13/17 23:53	M-02
2-Methylnaphthalene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Acenaphthene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Acenaphthylene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Anthracene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Benzo (a) anthracene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Benzo (a) pyrene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Benzo (b) fluoranthene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Benzo (g,h,i) perylene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Benzo (k) fluoranthene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Chrysene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Dibenzo (a,h) anthracene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Fluoranthene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Fluorene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Indeno (1,2,3-cd) pyrene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Naphthalene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Phenanthrene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Pyrene	ND	69	ug/kg	1	09/13/17 23:53	M-02
Surrogate(s)						
2-Fluorobiphenyl	*54%*	*Conc: 1250*	*0.1-109*		*09/13/17 23:53*	*M-02*
Nitrobenzene-d5	*36%*	*Conc: 820*	*0.1-107*		*09/13/17 23:53*	*M-02*
Terphenyl-d14	*22%*	*Conc: 513*	*28-128*		*09/13/17 23:53*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B — **Batch ID:** W7I0154 — **Prepared:** 09/05/17 14:56 — **Analyst:** rhr						
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 01:43	M-04

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm19-20170808-1012
7H09100-03 (Solid)

Sampled: 08/08/17 10:12 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 01:43	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 01:43	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 01:43	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 01:43	M-04

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Sample Results

(Continued)

Sample: Alm19-20170808-1012 — Sampled: 08/08/17 10:12 by April Saceaux

7H09100-03 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
o-Xylene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Styrene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Toluene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Trichloroethene	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/08/17 01:43	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*91%*	*Conc: 226*	*78-140*		*09/08/17 01:43*	*M-04*
4-Bromofluorobenzene	*102%*	*Conc: 254*	*85-116*		*09/08/17 01:43*	*M-04*
Dibromofluoromethane	*93%*	*Conc: 231*	*84-120*		*09/08/17 01:43*	*M-04*
Toluene-d8	*109%*	*Conc: 270*	*82-120*		*09/08/17 01:43*	*M-04*

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Project Manager: Robert Hartsock

Reported: 10/23/2017 15:32

Sample Results

(Continued)

Sample: Alm10-20170808-1040
7H09100-04 (Solid)

Sampled: 08/08/17 10:40 by April Saceaux

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	450	mg/kg	20	09/12/17 20:19	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 16:45	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 15:37	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 15:37	
Barium, Total	**1.1**	0.50	mg/kg	1	09/14/17 15:37	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:41	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 15:37	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 15:37	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 15:37	
Copper, Total	**6.9**	0.50	mg/kg	1	09/14/17 15:37	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 15:37	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 15:37	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 15:37	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 15:37	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 15:37	
Strontium, Total	**8.7**	0.50	mg/kg	1	09/14/17 15:37	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 15:37	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 15:37	
Zinc, Total	**16**	5.0	mg/kg	1	09/14/17 15:37	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0292	**Prepared:** 09/07/17 09:38				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	09/16/17 06:09	M-02
Carbazole	ND	0.45	mg/kg	1	09/16/17 06:09	M-02
Phenol	ND	0.45	mg/kg	1	09/16/17 06:09	M-02
Pyridine	ND	0.90	mg/kg	1	09/16/17 06:09	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*20%*	*Conc: 0.904*	*32-103*		*09/16/17 06:09*	*M-02, S-GC*
2-Fluorobiphenyl	*37%*	*Conc: 0.845*	*36-107*		*09/16/17 06:09*	*M-02*
2-Fluorophenol	*38%*	*Conc: 1.70*	*33-119*		*09/16/17 06:09*	*M-02*
Nitrobenzene-d5	*35%*	*Conc: 0.782*	*36-114*		*09/16/17 06:09*	*M-02, S-GC*
Phenol-d5	*52%*	*Conc: 2.37*	*40-118*		*09/16/17 06:09*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/16/17 06:09*	*S-GC, M-02*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Alm10-20170808-1040 — Sampled: 08/08/17 10:40 by April Saceaux

7H09100-04 (Solid)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7I0295	**Prepared:** 09/07/17 09:43				**Analyst:** etn
1-Methylnaphthalene	ND	68	ug/kg	1	09/14/17 00:27	M-02
2-Methylnaphthalene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Acenaphthene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Acenaphthylene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Anthracene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Benzo (a) anthracene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Benzo (a) pyrene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Benzo (b) fluoranthene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Benzo (g,h,i) perylene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Benzo (k) fluoranthene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Chrysene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Dibenzo (a,h) anthracene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Fluoranthene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Fluorene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Indeno (1,2,3-cd) pyrene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Naphthalene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Phenanthrene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Pyrene	ND	68	ug/kg	1	09/14/17 00:27	M-02
Surrogate(s)						
2-Fluorobiphenyl	*57%*	*Conc: 1290*	*0.1-109*		*09/14/17 00:27*	*M-02*
Nitrobenzene-d5	*41%*	*Conc: 937*	*0.1-107*		*09/14/17 00:27*	*M-02*
Terphenyl-d14	*25%*	*Conc: 556*	*28-128*		*09/14/17 00:27*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0154	**Prepared:** 09/05/17 14:56				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 02:14	M-04

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Project Manager: Robert Hartsock

Reported: 10/23/2017 15:32

Sample Results

(Continued)

Sample: Alm10-20170808-1040

7H09100-04 (Solid)

Sampled: 08/08/17 10:40 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 02:14	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 02:14	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 02:14	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 02:14	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 02:14	M-04

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Sample Results

(Continued)

Sample: Alm10-20170808-1040 — Sampled: 08/08/17 10:40 by April Saceaux

7H09100-04 (Solid) (Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
n-Butylbenzene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
n-Propylbenzene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
o-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
o-Xylene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
p-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
p-Isopropyltoluene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
sec-Butylbenzene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
Styrene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
tert-Butylbenzene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
Tetrachloroethene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
Toluene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
Trichloroethene	ND		1200	ug/kg	50	09/08/17 02:14	M-04
Trichlorofluoromethane	ND		1200	ug/kg	50	09/08/17 02:14	M-04
Vinyl chloride	ND		1200	ug/kg	50	09/08/17 02:14	M-04
Surrogate(s)							
1,2-Dichloroethane-d4	*97%*	*Conc: 228*	*78-140*			*09/08/17 02:14*	*M-04*
4-Bromofluorobenzene	*96%*	*Conc: 224*	*85-116*			*09/08/17 02:14*	*M-04*
Dibromofluoromethane	*97%*	*Conc: 228*	*84-120*			*09/08/17 02:14*	*M-04*
Toluene-d8	*110%*	*Conc: 259*	*82-120*			*09/08/17 02:14*	*M-04*

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Sample Results

(Continued)

Sample: Alm21-20170808-1045 — Sampled: 08/08/17 10:45 by April Saceaux

7H09100-05 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	440	mg/kg	20	09/12/17 20:49	M-04, M-02
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 16:48	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 15:45	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 15:45	
Barium, Total	**1.2**	0.50	mg/kg	1	09/14/17 15:45	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:44	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 15:45	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 15:45	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 15:45	
Copper, Total	**6.6**	0.50	mg/kg	1	09/14/17 15:45	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 15:45	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 15:45	
Nickel, Total	**1.3**	1.0	mg/kg	1	09/14/17 15:45	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 15:45	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 15:45	
Strontium, Total	**9.1**	0.50	mg/kg	1	09/14/17 15:45	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 15:45	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 15:45	
Zinc, Total	**14**	5.0	mg/kg	1	09/14/17 15:45	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0292	**Prepared:** 09/07/17 09:38				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.46	mg/kg	1	09/16/17 06:39	M-02
Carbazole	ND	0.46	mg/kg	1	09/16/17 06:39	M-02
Phenol	ND	0.46	mg/kg	1	09/16/17 06:39	M-02
Pyridine	ND	0.92	mg/kg	1	09/16/17 06:39	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*15%*	*Conc: 0.687*	*32-103*		*09/16/17 06:39*	*M-02, S-GC*
2-Fluorobiphenyl	*35%*	*Conc: 0.811*	*36-107*		*09/16/17 06:39*	*M-02, S-GC*
2-Fluorophenol	*28%*	*Conc: 1.28*	*33-119*		*09/16/17 06:39*	*M-02, S-GC*
Nitrobenzene-d5	*34%*	*Conc: 0.795*	*36-114*		*09/16/17 06:39*	*M-02, S-GC*
Phenol-d5	*41%*	*Conc: 1.88*	*40-118*		*09/16/17 06:39*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/16/17 06:39*	*M-02, S-GC*

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Sample Results

(Continued)

Sample: Alm21-20170808-1045 — Sampled: 08/08/17 10:45 by April Saceaux

7H09100-05 (Solid)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I0295	**Prepared:** 09/07/17 09:43				**Analyst:** etn
1-Methylnaphthalene	ND	69	ug/kg	1	09/14/17 01:01	M-02
2-Methylnaphthalene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Acenaphthene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Acenaphthylene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Anthracene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Benzo (a) anthracene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Benzo (a) pyrene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Benzo (b) fluoranthene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Benzo (g,h,i) perylene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Benzo (k) fluoranthene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Chrysene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Dibenzo (a,h) anthracene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Fluoranthene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Fluorene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Indeno (1,2,3-cd) pyrene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Naphthalene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Phenanthrene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Pyrene	ND	69	ug/kg	1	09/14/17 01:01	M-02
Surrogate(s)						
2-Fluorobiphenyl	*58%*	*Conc: 1340*	*0.1-109*		*09/14/17 01:01*	*M-02*
Nitrobenzene-d5	*45%*	*Conc: 1030*	*0.1-107*		*09/14/17 01:01*	*M-02*
Terphenyl-d14	*23%*	*Conc: 519*	*28-128*		*09/14/17 01:01*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0154	**Prepared:** 09/05/17 14:56				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 02:44	M-04

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Sample Results

(Continued)

Sample: Alm21-20170808-1045

7H09100-05 (Solid)

Sampled: 08/08/17 10:45 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 02:44	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 02:44	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 02:44	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 02:44	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 02:44	M-04

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Sample Results

(Continued)

Sample: Alm21-20170808-1045 — Sampled: 08/08/17 10:45 by April Saceaux

7H09100-05 (Solid) (Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
n-Butylbenzene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
n-Propylbenzene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
o-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
o-Xylene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
p-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
p-Isopropyltoluene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
sec-Butylbenzene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
Styrene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
tert-Butylbenzene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
Tetrachloroethene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
Toluene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
Trichloroethene	ND		1200	ug/kg	50	09/08/17 02:44	M-04
Trichlorofluoromethane	ND		1200	ug/kg	50	09/08/17 02:44	M-04
Vinyl chloride	ND		1200	ug/kg	50	09/08/17 02:44	M-04
Surrogate(s)							
1,2-Dichloroethane-d4	*91%*	*Conc: 221*	*78-140*			*09/08/17 02:44*	*M-04*
4-Bromofluorobenzene	*96%*	*Conc: 232*	*85-116*			*09/08/17 02:44*	*M-04*
Dibromofluoromethane	*93%*	*Conc: 224*	*84-120*			*09/08/17 02:44*	*M-04*
Toluene-d8	*110%*	*Conc: 267*	*82-120*			*09/08/17 02:44*	*M-04*

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Sample Results

(Continued)

Sample: Alm09-20170808-1115 — Sampled: 08/08/17 11:15 by April Saceaux

7H09100-06 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	390	mg/kg	20	09/12/17 21:19	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 16:51	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 15:52	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 15:52	
Barium, Total	**1.2**	0.50	mg/kg	1	09/14/17 15:52	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:46	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 15:52	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 15:52	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 15:52	
Copper, Total	**6.8**	0.50	mg/kg	1	09/14/17 15:52	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 15:52	
Molybdenum, Total	**0.56**	0.50	mg/kg	1	09/14/17 15:52	
Nickel, Total	**1.0**	1.0	mg/kg	1	09/14/17 15:52	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 15:52	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 15:52	
Strontium, Total	**4.5**	0.50	mg/kg	1	09/14/17 15:52	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 15:52	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 15:52	
Zinc, Total	**22**	5.0	mg/kg	1	09/14/17 15:52	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0292	**Prepared:** 09/07/17 09:38				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	09/16/17 07:10	M-02
Carbazole	ND	0.45	mg/kg	1	09/16/17 07:10	M-02
Phenol	ND	0.45	mg/kg	1	09/16/17 07:10	M-02
Pyridine	ND	0.90	mg/kg	1	09/16/17 07:10	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*12% Conc: 0.559*	*32-103*			*09/16/17 07:10*	*M-02, S-GC*
2-Fluorobiphenyl	*36% Conc: 0.799*	*36-107*			*09/16/17 07:10*	*M-02*
2-Fluorophenol	*33% Conc: 1.47*	*33-119*			*09/16/17 07:10*	*M-02*
Nitrobenzene-d5	*34% Conc: 0.766*	*36-114*			*09/16/17 07:10*	*S-GC, M-02*
Phenol-d5	*39% Conc: 1.77*	*40-118*			*09/16/17 07:10*	*M-02, S-GC*
Terphenyl-d14	*% Conc: 0.00*	*40-121*			*09/16/17 07:10*	*M-02, S-GC*

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Sample Results

(Continued)

Sample: Alm09-20170808-1115 — Sampled: 08/08/17 11:15 by April Saceaux

7H09100-06 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM — **Batch ID:** W7I0295 — **Prepared:** 09/07/17 09:43 — **Analyst:** etn						
1-Methylnaphthalene	ND	67	ug/kg	1	09/14/17 01:34	M-02
2-Methylnaphthalene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Acenaphthene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Acenaphthylene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Anthracene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Benzo (a) anthracene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Benzo (a) pyrene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Benzo (b) fluoranthene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Benzo (g,h,i) perylene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Benzo (k) fluoranthene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Chrysene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Dibenzo (a,h) anthracene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Fluoranthene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Fluorene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Indeno (1,2,3-cd) pyrene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Naphthalene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Phenanthrene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Pyrene	ND	67	ug/kg	1	09/14/17 01:34	M-02
Surrogate(s)						
2-Fluorobiphenyl	*58%*	*Conc: 1310*	*0.1-109*		*09/14/17 01:34*	*M-02*
Nitrobenzene-d5	*42%*	*Conc: 953*	*0.1-107*		*09/14/17 01:34*	*M-02*
Terphenyl-d14	*21%*	*Conc: 479*	*28-128*		*09/14/17 01:34*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B — **Batch ID:** W7I0154 — **Prepared:** 09/05/17 14:56 — **Analyst:** rhr						
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 05:17	M-04

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Sample Results

(Continued)

Sample: Alm09-20170808-1115 — Sampled: 08/08/17 11:15 by April Saceaux

7H09100-06 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 05:17	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 05:17	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 05:17	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 05:17	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 05:17	M-04

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Sample Results

(Continued)

Sample: Alm09-20170808-1115 — Sampled: 08/08/17 11:15 by April Saceaux

7H09100-06 (Solid) (Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
n-Butylbenzene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
n-Propylbenzene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
o-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
o-Xylene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
p-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
p-Isopropyltoluene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
sec-Butylbenzene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
Styrene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
tert-Butylbenzene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
Tetrachloroethene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
Toluene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
Trichloroethene	ND		1200	ug/kg	50	09/08/17 05:17	M-04
Trichlorofluoromethane	ND		1200	ug/kg	50	09/08/17 05:17	M-04
Vinyl chloride	ND		1200	ug/kg	50	09/08/17 05:17	M-04
Surrogate(s)							
1,2-Dichloroethane-d4	*98%*	*Conc: 238*	*78-140*			*09/08/17 05:17*	*M-04*
4-Bromofluorobenzene	*96%*	*Conc: 233*	*85-116*			*09/08/17 05:17*	*M-04*
Dibromofluoromethane	*98%*	*Conc: 237*	*84-120*			*09/08/17 05:17*	*M-04*
Toluene-d8	*110%*	*Conc: 268*	*82-120*			*09/08/17 05:17*	*M-04*

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Sample Results

(Continued)

Sample: Alm08-20170808-1238 — Sampled: 08/08/17 12:38 by April Saceaux

7H09100-07 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	430	mg/kg	20	09/12/17 21:48	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 16:54	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 15:59	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 15:59	
Barium, Total	**1.9**	0.50	mg/kg	1	09/14/17 15:59	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:49	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 15:59	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 15:59	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 15:59	
Copper, Total	**6.2**	0.50	mg/kg	1	09/14/17 15:59	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 15:59	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 15:59	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 15:59	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 15:59	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 15:59	
Strontium, Total	**5.8**	0.50	mg/kg	1	09/14/17 15:59	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 15:59	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 15:59	
Zinc, Total	**24**	5.0	mg/kg	1	09/14/17 15:59	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0292	**Prepared:** 09/07/17 09:38				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.44	mg/kg	1	09/16/17 07:39	M-02
Carbazole	ND	0.44	mg/kg	1	09/16/17 07:39	M-02
Phenol	ND	0.44	mg/kg	1	09/16/17 07:39	M-02
Pyridine	ND	0.88	mg/kg	1	09/16/17 07:39	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*10%*	*Conc: 0.443*	*32-103*		*09/16/17 07:39*	*M-02, S-GC*
2-Fluorobiphenyl	*34%*	*Conc: 0.748*	*36-107*		*09/16/17 07:39*	*M-02, S-GC*
2-Fluorophenol	*34%*	*Conc: 1.49*	*33-119*		*09/16/17 07:39*	*M-02*
Nitrobenzene-d5	*32%*	*Conc: 0.697*	*36-114*		*09/16/17 07:39*	*M-02, S-GC*
Phenol-d5	*45%*	*Conc: 1.98*	*40-118*		*09/16/17 07:39*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/16/17 07:39*	*M-02, S-GC*

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Sample Results

(Continued)

Sample: Alm08-20170808-1238 — Sampled: 08/08/17 12:38 by April Saceaux

7H09100-07 (Solid)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I0295	**Prepared:** 09/07/17 09:43				**Analyst:** etn
1-Methylnaphthalene	ND	66	ug/kg	1	09/14/17 02:08	M-02
2-Methylnaphthalene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Acenaphthene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Acenaphthylene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Anthracene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Benzo (a) anthracene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Benzo (a) pyrene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Benzo (b) fluoranthene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Benzo (g,h,i) perylene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Benzo (k) fluoranthene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Chrysene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Dibenzo (a,h) anthracene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Fluoranthene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Fluorene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Indeno (1,2,3-cd) pyrene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Naphthalene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Phenanthrene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Pyrene	ND	66	ug/kg	1	09/14/17 02:08	M-02
Surrogate(s)						
2-Fluorobiphenyl	*54%*	*Conc: 1200*	*0.1-109*		*09/14/17 02:08*	*M-02*
Nitrobenzene-d5	*40%*	*Conc: 878*	*0.1-107*		*09/14/17 02:08*	*M-02*
Terphenyl-d14	*20%*	*Conc: 444*	*28-128*		*09/14/17 02:08*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0154	**Prepared:** 09/05/17 14:56				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 05:48	M-04

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Project Number: Cawelo Water District Orchard+Vineyard Sampling

Project Manager: Robert Hartsock

Reported: 10/23/2017 15:32

Sample Results

(Continued)

Sample: Alm08-20170808-1238 — Sampled: 08/08/17 12:38 by April Saceaux

7H09100-07 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 05:48	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 05:48	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 05:48	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 05:48	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 05:48	M-04

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Sample Results

(Continued)

Sample: Alm08-20170808-1238 — Sampled: 08/08/17 12:38 by April Saceaux

7H09100-07 (Solid) (Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
n-Butylbenzene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
n-Propylbenzene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
o-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
o-Xylene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
p-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
p-Isopropyltoluene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
sec-Butylbenzene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
Styrene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
tert-Butylbenzene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
Tetrachloroethene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
Toluene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
Trichloroethene	ND		1200	ug/kg	50	09/08/17 05:48	M-04
Trichlorofluoromethane	ND		1200	ug/kg	50	09/08/17 05:48	M-04
Vinyl chloride	ND		1200	ug/kg	50	09/08/17 05:48	M-04
Surrogate(s)							
1,2-Dichloroethane-d4	*97%*	*Conc: 237*	*78-140*			*09/08/17 05:48*	*M-04*
4-Bromofluorobenzene	*96%*	*Conc: 236*	*85-116*			*09/08/17 05:48*	*M-04*
Dibromofluoromethane	*96%*	*Conc: 236*	*84-120*			*09/08/17 05:48*	*M-04*
Toluene-d8	*108%*	*Conc: 264*	*82-120*			*09/08/17 05:48*	*M-04*

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Sample Results

(Continued)

Sample: Alm06-20170808-1335 — Sampled: 08/08/17 13:35 by April Saceaux

7H09100-08 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	480	mg/kg	20	09/12/17 22:18	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 16:57	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 16:06	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 16:06	
Barium, Total	**1.4**	0.50	mg/kg	1	09/14/17 16:06	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:51	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 16:06	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 16:06	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 16:06	
Copper, Total	**6.3**	0.50	mg/kg	1	09/14/17 16:06	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 16:06	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 16:06	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 16:06	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 16:06	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 16:06	
Strontium, Total	**9.5**	0.50	mg/kg	1	09/14/17 16:06	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 16:06	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 16:06	
Zinc, Total	**14**	5.0	mg/kg	1	09/14/17 16:06	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0775	**Prepared:** 09/14/17 11:40				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.38	mg/kg	1	09/22/17 02:25	M-02
Carbazole	ND	0.38	mg/kg	1	09/22/17 02:25	M-02
Phenol	ND	0.38	mg/kg	1	09/22/17 02:25	M-02
Pyridine	ND	0.77	mg/kg	1	09/22/17 02:25	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*48%*	*Conc: 1.84*	*32-103*		*09/22/17 02:25*	*M-02*
2-Fluorobiphenyl	*50%*	*Conc: 0.958*	*36-107*		*09/22/17 02:25*	*M-02*
2-Fluorophenol	*25%*	*Conc: 0.967*	*33-119*		*09/22/17 02:25*	*M-02, S-GC*
Nitrobenzene-d5	*30%*	*Conc: 0.578*	*36-114*		*09/22/17 02:25*	*M-02, S-GC*
Phenol-d5	*40%*	*Conc: 1.54*	*40-118*		*09/22/17 02:25*	*M-02*
Terphenyl-d14	*3%*	*Conc: 0.0645*	*40-121*		*09/22/17 02:25*	*S-GC, M-02*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Alm06-20170808-1335 — Sampled: 08/08/17 13:35 by April Saceaux

7H09100-08 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7I0773	**Prepared:** 09/14/17 11:27				**Analyst:** etn
1-Methylnaphthalene	ND	57	ug/kg	1	09/20/17 04:58	M-02
2-Methylnaphthalene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Acenaphthene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Acenaphthylene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Anthracene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Benzo (a) anthracene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Benzo (a) pyrene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Benzo (b) fluoranthene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Benzo (g,h,i) perylene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Benzo (k) fluoranthene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Chrysene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Dibenzo (a,h) anthracene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Fluoranthene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Fluorene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Indeno (1,2,3-cd) pyrene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Naphthalene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Phenanthrene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Pyrene	ND	57	ug/kg	1	09/20/17 04:58	M-02
Surrogate(s)						
2-Fluorobiphenyl	*58%*	*Conc: 1120*	*0.1-109*		*09/20/17 04:58*	*M-02*
Nitrobenzene-d5	*45%*	*Conc: 858*	*0.1-107*		*09/20/17 04:58*	*M-02*
Terphenyl-d14	*35%*	*Conc: 674*	*28-128*		*09/20/17 04:58*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0154	**Prepared:** 09/05/17 14:56				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 06:19	M-04

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Sample Results

(Continued)

Sample: Alm06-20170808-1335 — Sampled: 08/08/17 13:35 by April Saceaux

7H09100-08 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 06:19	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 06:19	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 06:19	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 06:19	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 06:19	M-04

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Sample Results

(Continued)

Sample: Alm06-20170808-1335 — Sampled: 08/08/17 13:35 by April Saceaux

7H09100-08 (Solid) (Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
n-Butylbenzene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
n-Propylbenzene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
o-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
o-Xylene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
p-Dichlorobenzene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
p-Isopropyltoluene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
sec-Butylbenzene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
Styrene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
tert-Butylbenzene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
Tetrachloroethene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
Toluene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
Trichloroethene	ND		1200	ug/kg	50	09/08/17 06:19	M-04
Trichlorofluoromethane	ND		1200	ug/kg	50	09/08/17 06:19	M-04
Vinyl chloride	ND		1200	ug/kg	50	09/08/17 06:19	M-04
Surrogate(s)							
1,2-Dichloroethane-d4	*98%*	*Conc: 232*	*78-140*			*09/08/17 06:19*	*M-04*
4-Bromofluorobenzene	*95%*	*Conc: 225*	*85-116*			*09/08/17 06:19*	*M-04*
Dibromofluoromethane	*98%*	*Conc: 232*	*84-120*			*09/08/17 06:19*	*M-04*
Toluene-d8	*110%*	*Conc: 259*	*82-120*			*09/08/17 06:19*	*M-04*

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Sample Results

(Continued)

Sample: Alm07-20170808-1405 — Sampled: 08/08/17 14:05 by April Saceaux

7H09100-09 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0515	**Prepared:** 09/11/17 14:14				**Analyst:** cam
Methanol	ND	430	mg/kg	20	09/12/17 20:48	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0917	**Prepared:** 08/15/17 14:49				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/08/17 17:00	
Method: EPA 6020B	**Batch ID:** W7H0922	**Prepared:** 08/15/17 14:57				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 16:14	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 16:14	
Barium, Total	**1.5**	0.50	mg/kg	1	09/14/17 16:14	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 14:54	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 16:14	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 16:14	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 16:14	
Copper, Total	**6.9**	0.50	mg/kg	1	09/14/17 16:14	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 16:14	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 16:14	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 16:14	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 16:14	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 16:14	
Strontium, Total	**8.0**	0.50	mg/kg	1	09/14/17 16:14	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 16:14	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 16:14	
Zinc, Total	**20**	5.0	mg/kg	1	09/14/17 16:14	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0775	**Prepared:** 09/14/17 11:40				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	09/22/17 02:55	M-02
Carbazole	ND	0.45	mg/kg	1	09/22/17 02:55	M-02
Phenol	ND	0.45	mg/kg	1	09/22/17 02:55	M-02
Pyridine	ND	0.90	mg/kg	1	09/22/17 02:55	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*40%*	*Conc: 1.80*	*32-103*		*09/22/17 02:55*	*M-02*
2-Fluorobiphenyl	*52%*	*Conc: 1.19*	*36-107*		*09/22/17 02:55*	*M-02*
2-Fluorophenol	*33%*	*Conc: 1.48*	*33-119*		*09/22/17 02:55*	*M-02*
Nitrobenzene-d5	*31%*	*Conc: 0.691*	*36-114*		*09/22/17 02:55*	*S-GC, M-02*
Phenol-d5	*48%*	*Conc: 2.17*	*40-118*		*09/22/17 02:55*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/22/17 02:55*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Alm07-20170808-1405 — Sampled: 08/08/17 14:05 by April Saceaux

7H09100-09 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7I0773	**Prepared:** 09/14/17 11:27				**Analyst:** etn
1-Methylnaphthalene	ND	68	ug/kg	1	09/20/17 05:32	M-02
2-Methylnaphthalene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Acenaphthene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Acenaphthylene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Anthracene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Benzo (a) anthracene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Benzo (a) pyrene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Benzo (b) fluoranthene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Benzo (g,h,i) perylene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Benzo (k) fluoranthene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Chrysene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Dibenzo (a,h) anthracene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Fluoranthene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Fluorene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Indeno (1,2,3-cd) pyrene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Naphthalene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Phenanthrene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Pyrene	ND	68	ug/kg	1	09/20/17 05:32	M-02
Surrogate(s)						
2-Fluorobiphenyl	*64%*	*Conc: 1440*	*0.1-109*		*09/20/17 05:32*	*M-02*
Nitrobenzene-d5	*44%*	*Conc: 991*	*0.1-107*		*09/20/17 05:32*	*M-02*
Terphenyl-d14	*38%*	*Conc: 855*	*28-128*		*09/20/17 05:32*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0387	**Prepared:** 09/08/17 09:48				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 17:02	M-04

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Sample Results

(Continued)

Sample: Alm07-20170808-1405 — Sampled: 08/08/17 14:05 by April Saceaux

7H09100-09 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 17:02	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 17:02	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 17:02	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 17:02	M-04

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Sample Results

(Continued)

Sample: Alm07-20170808-1405 — Sampled: 08/08/17 14:05 by April Saceaux

7H09100-09 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
o-Xylene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Styrene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Toluene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Trichloroethene	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/08/17 17:02	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*93%*	*Conc: 216*	*78-140*		*09/08/17 17:02*	*M-04*
4-Bromofluorobenzene	*102%*	*Conc: 236*	*85-116*		*09/08/17 17:02*	*M-04*
Dibromofluoromethane	*95%*	*Conc: 221*	*84-120*		*09/08/17 17:02*	*M-04*
Toluene-d8	*107%*	*Conc: 247*	*82-120*		*09/08/17 17:02*	*M-04*

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Quality Control Results

Alcohols by GC/FID

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0515 - EPA 8015D										
Blank (W7I0515-BLK1)				**Prepared: 09/11/17**	**Analyzed: 09/12/17**					
Methanol	ND	10	mg/kg							
LCS (W7I0515-BS1)				**Prepared: 09/11/17**	**Analyzed: 09/12/17**					
Methanol	190	10	mg/kg	250		76	54-139			
Matrix Spike (W7I0515-MS1)	**Source: 7H09100-01**			**Prepared: 09/11/17**	**Analyzed: 09/12/17**					
Methanol	11100	500	mg/kg	12500	ND	89	16-166			M-02, M-04
Matrix Spike Dup (W7I0515-MSD1)	**Source: 7H09100-01**			**Prepared: 09/11/17**	**Analyzed: 09/12/17**					
Methanol	12100	510	mg/kg	12800	ND	94	16-166	9	25	M-02, M-04

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7H0917 - EPA 6010B										
Blank (W7H0917-BLK1)				**Prepared: 08/15/17**	**Analyzed: 09/08/17**					
Lithium, Total	ND	5.0	mg/kg							
LCS (W7H0917-BS1)				**Prepared: 08/15/17**	**Analyzed: 09/08/17**					
Lithium, Total	51.2	5.0	mg/kg	50.0		102	80-120			
Matrix Spike (W7H0917-MS1)	**Source: 7H09099-02**			**Prepared: 08/15/17**	**Analyzed: 09/08/17**					
Lithium, Total	57.1	5.0	mg/kg	49.7	ND	115	75-125			
Matrix Spike Dup (W7H0917-MSD1)	**Source: 7H09099-02**			**Prepared: 08/15/17**	**Analyzed: 09/08/17**					
Lithium, Total	55.6	5.0	mg/kg	48.7	ND	114	75-125	3	20	
Batch: W7H0922 - EPA 6020B										
Blank (W7H0922-BLK1)				**Prepared: 08/15/17**	**Analyzed: 09/14/17**					
Antimony, Total	ND	0.50	mg/kg							
Arsenic, Total	ND	0.50	mg/kg							
Barium, Total	ND	0.50	mg/kg							
Beryllium, Total	ND	0.30	mg/kg							
Cadmium, Total	ND	0.20	mg/kg							
Chromium, Total	ND	1.0	mg/kg							
Cobalt, Total	ND	0.50	mg/kg							
Copper, Total	ND	0.50	mg/kg							
Lead, Total	ND	0.50	mg/kg							
Molybdenum, Total	ND	0.50	mg/kg							
Nickel, Total	ND	1.0	mg/kg							
Selenium, Total	ND	0.50	mg/kg							
Silver, Total	ND	0.50	mg/kg							
Strontium, Total	ND	0.50	mg/kg							
Thallium, Total	ND	0.50	mg/kg							
Vanadium, Total	ND	1.0	mg/kg							

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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7H0922 - EPA 6020B (Continued)										
Blank (W7H0922-BLK1)				**Prepared: 08/15/17 Analyzed: 09/14/17**						
Zinc, Total	ND	5.0	mg/kg							
LCS (W7H0922-BS1)				**Prepared: 08/15/17 Analyzed: 09/14/17**						
Antimony, Total	52.8	0.50	mg/kg	50.0		106	80-120			
Arsenic, Total	50.5	0.50	mg/kg	50.0		101	80-120			
Barium, Total	51.8	0.50	mg/kg	50.0		104	80-120			
Beryllium, Total	45.9	0.30	mg/kg	50.0		92	80-120			
Cadmium, Total	50.9	0.20	mg/kg	50.0		102	80-120			
Chromium, Total	50.3	1.0	mg/kg	50.0		101	80-120			
Cobalt, Total	51.2	0.50	mg/kg	50.0		102	80-120			
Copper, Total	51.8	0.50	mg/kg	50.0		104	80-120			
Lead, Total	50.7	0.50	mg/kg	50.0		101	80-120			
Molybdenum, Total	47.8	0.50	mg/kg	50.0		96	80-120			
Nickel, Total	51.6	1.0	mg/kg	50.0		103	80-120			
Selenium, Total	50.5	0.50	mg/kg	50.0		101	80-120			
Silver, Total	50.6	0.50	mg/kg	50.0		101	80-120			
Strontium, Total	102	0.50	mg/kg	100		102	80-120			
Thallium, Total	52.2	0.50	mg/kg	50.0		104	80-120			
Vanadium, Total	49.5	1.0	mg/kg	50.0		99	80-120			
Zinc, Total	52.0	5.0	mg/kg	50.0		104	80-120			
Matrix Spike (W7H0922-MS1)	**Source: 7H09099-01**			**Prepared: 08/15/17 Analyzed: 09/14/17**						
Antimony, Total	50.8	0.50	mg/kg	50.7	ND	100	75-125			
Arsenic, Total	52.1	0.50	mg/kg	50.7	ND	103	75-125			
Barium, Total	54.6	0.50	mg/kg	50.7	1.59	105	75-125			
Beryllium, Total	49.7	0.60	mg/kg	50.7	ND	98	75-125			
Cadmium, Total	52.5	0.20	mg/kg	50.7	ND	104	75-125			
Chromium, Total	50.7	1.0	mg/kg	50.7	0.244	100	75-125			
Cobalt, Total	52.3	0.50	mg/kg	50.7	ND	103	75-125			
Copper, Total	55.9	0.50	mg/kg	50.7	2.45	106	75-125			
Lead, Total	51.3	0.50	mg/kg	50.7	ND	101	75-125			
Molybdenum, Total	48.7	0.50	mg/kg	50.7	0.605	95	75-125			
Nickel, Total	52.9	1.0	mg/kg	50.7	ND	104	75-125			
Selenium, Total	51.4	0.50	mg/kg	50.7	ND	102	75-125			
Silver, Total	51.3	0.50	mg/kg	50.7	ND	101	75-125			
Strontium, Total	106	0.50	mg/kg	101	1.95	103	75-125			
Thallium, Total	51.9	0.50	mg/kg	50.7	ND	103	75-125			
Vanadium, Total	51.0	1.0	mg/kg	50.7	ND	101	75-125			
Zinc, Total	66.5	5.0	mg/kg	50.7	11.0	109	75-125			

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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7H0922 - EPA 6020B (Continued)										
Matrix Spike (W7H0922-MS1)	**Source: 7H09099-01**			**Prepared: 08/15/17**	**Analyzed: 09/14/17**					
Matrix Spike Dup (W7H0922-MSD1)	**Source: 7H09099-01**			**Prepared: 08/15/17**	**Analyzed: 09/14/17**					
Antimony, Total	50.5	0.50	mg/kg	50.7	ND	100	75-125	0.5	20	
Arsenic, Total	51.5	0.50	mg/kg	50.7	ND	102	75-125	1	20	
Barium, Total	54.7	0.50	mg/kg	50.7	1.59	105	75-125	0.2	20	
Beryllium, Total	50.4	0.60	mg/kg	50.7	ND	99	75-125	1	20	
Cadmium, Total	52.8	0.20	mg/kg	50.7	ND	104	75-125	0.4	20	
Chromium, Total	49.9	1.0	mg/kg	50.7	0.244	98	75-125	2	20	
Cobalt, Total	51.3	0.50	mg/kg	50.7	ND	101	75-125	2	20	
Copper, Total	54.9	0.50	mg/kg	50.7	2.45	103	75-125	2	20	
Lead, Total	51.0	0.50	mg/kg	50.7	ND	101	75-125	0.5	20	
Molybdenum, Total	48.9	0.50	mg/kg	50.7	0.605	95	75-125	0.5	20	
Nickel, Total	51.8	1.0	mg/kg	50.7	ND	102	75-125	2	20	
Selenium, Total	51.2	0.50	mg/kg	50.7	ND	101	75-125	0.5	20	
Silver, Total	51.9	0.50	mg/kg	50.7	ND	102	75-125	1	20	
Strontium, Total	105	0.50	mg/kg	101	1.95	102	75-125	1	20	
Thallium, Total	52.7	0.50	mg/kg	50.7	ND	104	75-125	1	20	
Vanadium, Total	50.3	1.0	mg/kg	50.7	ND	99	75-125	1	20	
Zinc, Total	65.4	5.0	mg/kg	50.7	11.0	107	75-125	2	20	

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Project Manager: Robert Hartsock

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0292 - EPA 8270C										
Blank (W7I0292-BLK1)				**Prepared: 09/07/17 Analyzed: 09/15/17**						
Bis(2-ethylhexyl)phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surrogate(s)										
2,4,6-Tribromophenol		*0.180*	*mg/kg*	*0.500*		*36*	*32-103*			
2-Fluorobiphenyl		*0.137*	*mg/kg*	*0.250*		*55*	*36-107*			
2-Fluorophenol		*0.288*	*mg/kg*	*0.500*		*58*	*33-119*			
Nitrobenzene-d5		*0.149*	*mg/kg*	*0.250*		*60*	*36-114*			
Phenol-d5		*0.353*	*mg/kg*	*0.500*		*71*	*40-118*			
Terphenyl-d14		*0.163*	*mg/kg*	*0.250*		*65*	*40-121*			
Blank (W7I0292-BLK2)				**Prepared: 09/07/17 Analyzed: 09/19/17**						
Bis(2-ethylhexyl)phthalate	ND	0.050	mg/kg							QC-2
Surrogate(s)										
2,4,6-Tribromophenol		*0.204*	*mg/kg*	*0.500*		*41*	*32-103*			*QC-2*
2-Fluorobiphenyl		*0.156*	*mg/kg*	*0.250*		*62*	*36-107*			*QC-2*
2-Fluorophenol		*0.315*	*mg/kg*	*0.500*		*63*	*33-119*			*QC-2*
Nitrobenzene-d5		*0.151*	*mg/kg*	*0.250*		*60*	*36-114*			*QC-2*
Phenol-d5		*0.369*	*mg/kg*	*0.500*		*74*	*40-118*			*QC-2*
Terphenyl-d14		*0.167*	*mg/kg*	*0.250*		*67*	*40-121*			*QC-2*
LCS (W7I0292-BS1)				**Prepared: 09/07/17 Analyzed: 09/15/17**						
1,2,4-Trichlorobenzene	0.839	0.050	mg/kg	1.25		67	32-111			
1,4-Dichlorobenzene	0.755	0.050	mg/kg	1.25		60	30-111			
2,4-Dinitrotoluene	1.04	0.050	mg/kg	1.25		83	49-119			
2-Chlorophenol	0.733	0.050	mg/kg	1.25		59	31-111			
4-Chloro-3-methylphenol	0.752	0.050	mg/kg	1.25		60	27-138			
4-Nitrophenol	0.848	0.050	mg/kg	1.25		68	35-109			
Acenaphthene	0.913	0.050	mg/kg	1.25		73	44-118			
N-Nitrosodi-n-propylamine	0.872	0.050	mg/kg	1.25		70	31-128			
Phenol	0.814	0.050	mg/kg	1.25		65	33-106			
Pyrene	0.991	0.050	mg/kg	1.25		79	56-127			
Surrogate(s)										
2,4,6-Tribromophenol		*0.267*	*mg/kg*	*0.500*		*53*	*32-103*			
2-Fluorobiphenyl		*0.110*	*mg/kg*	*0.250*		*44*	*36-107*			
2-Fluorophenol		*0.241*	*mg/kg*	*0.500*		*48*	*33-119*			
Nitrobenzene-d5		*0.130*	*mg/kg*	*0.250*		*52*	*36-114*			
Phenol-d5		*0.286*	*mg/kg*	*0.500*		*57*	*40-118*			
Terphenyl-d14		*0.158*	*mg/kg*	*0.250*		*63*	*40-121*			

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0292 - EPA 8270C (Continued)										
LCS (W7I0292-BS2)				**Prepared: 09/07/17 Analyzed: 09/19/17**						
1,2,4-Trichlorobenzene	0.888	0.050	mg/kg	1.25		71	32-111			QC-2
1,4-Dichlorobenzene	0.810	0.050	mg/kg	1.25		65	30-111			QC-2
2,4-Dinitrotoluene	1.09	0.050	mg/kg	1.25		87	49-119			QC-2
2-Chlorophenol	0.801	0.050	mg/kg	1.25		64	31-111			QC-2
4-Chloro-3-methylphenol	0.924	0.050	mg/kg	1.25		74	27-138			QC-2
4-Nitrophenol	0.838	0.050	mg/kg	1.25		67	35-109			QC-2
Acenaphthene	1.04	0.050	mg/kg	1.25		83	44-118			QC-2
N-Nitrosodi-n-propylamine	0.925	0.050	mg/kg	1.25		74	31-128			QC-2
Phenol	0.882	0.050	mg/kg	1.25		71	33-106			QC-2
Pyrene	1.17	0.050	mg/kg	1.25		94	56-127			QC-2
Surrogate(s)										
2,4,6-Tribromophenol	*0.317*		*mg/kg*	*0.500*		*63*	*32-103*			*QC-2*
2-Fluorobiphenyl	*0.142*		*mg/kg*	*0.250*		*57*	*36-107*			*QC-2*
2-Fluorophenol	*0.261*		*mg/kg*	*0.500*		*52*	*33-119*			*QC-2*
Nitrobenzene-d5	*0.135*		*mg/kg*	*0.250*		*54*	*36-114*			*QC-2*
Phenol-d5	*0.303*		*mg/kg*	*0.500*		*61*	*40-118*			*QC-2*
Terphenyl-d14	*0.178*		*mg/kg*	*0.250*		*71*	*40-121*			*QC-2*
Matrix Spike (W7I0292-MS1)		**Source: 7H09100-01**		**Prepared: 09/07/17 Analyzed: 09/16/17**						
1,2,4-Trichlorobenzene	8.03	0.45	mg/kg	11.2	ND	72	29-108			M-02
1,4-Dichlorobenzene	6.66	0.45	mg/kg	11.2	ND	59	37-96			M-02
2,4-Dinitrotoluene	7.87	0.45	mg/kg	11.2	ND	70	45-106			M-02
2-Chlorophenol	7.31	0.45	mg/kg	11.2	ND	65	35-97			M-02
4-Chloro-3-methylphenol	7.81	0.45	mg/kg	11.2	ND	70	38-114			M-02
4-Nitrophenol	8.08	0.45	mg/kg	11.2	ND	72	28-115			M-02
Acenaphthene	8.03	0.45	mg/kg	11.2	ND	72	49-103			M-02
N-Nitrosodi-n-propylamine	8.38	0.45	mg/kg	11.2	ND	75	31-120			M-02
Phenol	8.04	0.45	mg/kg	11.2	ND	72	31-102			M-02
Surrogate(s)										
2,4,6-Tribromophenol	*2.95*		*mg/kg*	*4.48*		*66*	*32-103*			*M-02*
2-Fluorobiphenyl	*1.17*		*mg/kg*	*2.24*		*52*	*36-107*			*M-02*
2-Fluorophenol	*2.44*		*mg/kg*	*4.48*		*54*	*33-119*			*M-02*
Nitrobenzene-d5	*1.24*		*mg/kg*	*2.24*		*55*	*36-114*			*M-02*
Phenol-d5	*2.75*		*mg/kg*	*4.48*		*61*	*40-118*			*M-02*
Terphenyl-d14	*0.556*		*mg/kg*	*2.24*		*25*	*40-121*			*M-02, S-GC*
Matrix Spike Dup (W7I0292-MSD1)		**Source: 7H09100-01**		**Prepared: 09/07/17 Analyzed: 09/16/17**						
1,2,4-Trichlorobenzene	6.67	0.45	mg/kg	11.2	ND	60	29-108	18	30	M-02
1,4-Dichlorobenzene	5.24	0.45	mg/kg	11.2	ND	47	37-96	24	30	M-02
2,4-Dinitrotoluene	7.21	0.45	mg/kg	11.2	ND	65	45-106	9	30	M-02

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0292 - EPA 8270C (Continued)										
Matrix Spike Dup (W7I0292-MSD1)	**Source: 7H09100-01**			**Prepared: 09/07/17 Analyzed: 09/16/17**						
2-Chlorophenol	6.82	0.45	mg/kg	11.2	ND	61	35-97	7	30	M-02
4-Chloro-3-methylphenol	7.28	0.45	mg/kg	11.2	ND	65	38-114	7	30	M-02
4-Nitrophenol	7.01	0.45	mg/kg	11.2	ND	63	28-115	14	30	M-02
Acenaphthene	7.44	0.45	mg/kg	11.2	ND	67	49-103	8	30	M-02
N-Nitrosodi-n-propylamine	7.78	0.45	mg/kg	11.2	ND	70	31-120	7	30	M-02
Phenol	7.49	0.45	mg/kg	11.2	ND	67	31-102	7	30	M-02
Surrogate(s)										
2,4,6-Tribromophenol	*2.35*		*mg/kg*	*4.46*		*53*	*32-103*			*M-02*
2-Fluorobiphenyl	*1.03*		*mg/kg*	*2.23*		*46*	*36-107*			*M-02*
2-Fluorophenol	*2.28*		*mg/kg*	*4.46*		*51*	*33-119*			*M-02*
Nitrobenzene-d5	*1.12*		*mg/kg*	*2.23*		*50*	*36-114*			*M-02*
Phenol-d5	*2.61*		*mg/kg*	*4.46*		*59*	*40-118*			*M-02*
Terphenyl-d14	*0.208*		*mg/kg*	*2.23*		*9*	*40-121*			*M-02, S-GC*
Batch: W7I0775 - EPA 8270C										
Blank (W7I0775-BLK1)				**Prepared: 09/14/17 Analyzed: 09/21/17**						
Bis(2-ethylhexyl)phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surrogate(s)										
2,4,6-Tribromophenol	*0.371*		*mg/kg*	*0.500*		*74*	*32-103*			
2-Fluorobiphenyl	*0.134*		*mg/kg*	*0.250*		*54*	*36-107*			
2-Fluorophenol	*0.297*		*mg/kg*	*0.500*		*59*	*33-119*			
Nitrobenzene-d5	*0.122*		*mg/kg*	*0.250*		*49*	*36-114*			
Phenol-d5	*0.310*		*mg/kg*	*0.500*		*62*	*40-118*			
Terphenyl-d14	*0.164*		*mg/kg*	*0.250*		*66*	*40-121*			
LCS (W7I0775-BS1)				**Prepared: 09/14/17 Analyzed: 09/21/17**						
1,2,4-Trichlorobenzene	0.699	0.050	mg/kg	1.25		56	32-111			
1,4-Dichlorobenzene	0.633	0.050	mg/kg	1.25		51	30-111			
2,4-Dinitrotoluene	0.961	0.050	mg/kg	1.25		77	49-119			
2-Chlorophenol	0.627	0.050	mg/kg	1.25		50	31-111			
4-Chloro-3-methylphenol	0.762	0.050	mg/kg	1.25		61	27-138			
4-Nitrophenol	0.943	0.050	mg/kg	1.25		75	35-109			
Acenaphthene	0.824	0.050	mg/kg	1.25		66	44-118			
N-Nitrosodi-n-propylamine	0.682	0.050	mg/kg	1.25		55	31-128			
Pentachlorophenol	1.10	0.050	mg/kg	1.25		88	11-114			
Phenol	0.636	0.050	mg/kg	1.25		51	33-106			
Pyrene	1.06	0.050	mg/kg	1.25		84	56-127			

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Project Manager: Robert Hartsock

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0775 - EPA 8270C (Continued)										
LCS (W7I0775-BS1)				**Prepared: 09/14/17 Analyzed: 09/21/17**						
Surrogate(s)										
2,4,6-Tribromophenol	*2.22*		*mg/kg*	*2.50*		*89*	*32-103*			
2-Fluorobiphenyl	*0.741*		*mg/kg*	*1.25*		*59*	*36-107*			
2-Fluorophenol	*1.38*		*mg/kg*	*2.50*		*55*	*33-119*			
Nitrobenzene-d5	*0.665*		*mg/kg*	*1.25*		*53*	*36-114*			
Phenol-d5	*1.50*		*mg/kg*	*2.50*		*60*	*40-118*			
Terphenyl-d14	*1.08*		*mg/kg*	*1.25*		*87*	*40-121*			
Matrix Spike (W7I0775-MS1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/22/17**						
1,2,4-Trichlorobenzene	7.86	0.47	mg/kg	11.7	ND	67	29-108			M-02
1,4-Dichlorobenzene	6.12	0.47	mg/kg	11.7	ND	52	37-96			M-02
2,4-Dinitrotoluene	7.87	0.47	mg/kg	11.7	ND	67	45-106			M-02
2-Chlorophenol	6.75	0.47	mg/kg	11.7	ND	57	35-97			M-02
4-Chloro-3-methylphenol	7.79	0.47	mg/kg	11.7	ND	66	38-114			M-02
4-Nitrophenol	7.72	0.47	mg/kg	11.7	ND	66	28-115			M-02
Acenaphthene	8.01	0.47	mg/kg	11.7	ND	68	49-103			M-02
N-Nitrosodi-n-propylamine	7.69	0.47	mg/kg	11.7	ND	66	31-120			M-02
Pentachlorophenol	10.5	0.47	mg/kg	11.7	0.209	88	23-114			M-02
Phenol	6.83	0.47	mg/kg	11.7	ND	58	31-102			M-02
Pyrene	4.26	0.47	mg/kg	11.7	ND	36	47-122			M-02
Surrogate(s)										
2,4,6-Tribromophenol	*17.3*		*mg/kg*	*23.5*		*74*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.86*		*mg/kg*	*11.7*		*67*	*36-107*			*M-02*
2-Fluorophenol	*14.9*		*mg/kg*	*23.5*		*64*	*33-119*			*M-02*
Nitrobenzene-d5	*7.56*		*mg/kg*	*11.7*		*64*	*36-114*			*M-02*
Phenol-d5	*16.1*		*mg/kg*	*23.5*		*69*	*40-118*			*M-02*
Terphenyl-d14	*3.80*		*mg/kg*	*11.7*		*32*	*40-121*			*M-02, S-GC*
Matrix Spike Dup (W7I0775-MSD1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/22/17**						
1,2,4-Trichlorobenzene	7.02	0.47	mg/kg	11.6	ND	60	29-108	11	30	M-02
1,4-Dichlorobenzene	5.33	0.47	mg/kg	11.6	ND	46	37-96	14	30	M-02
2,4-Dinitrotoluene	7.68	0.47	mg/kg	11.6	ND	66	45-106	2	30	M-02
2-Chlorophenol	6.15	0.47	mg/kg	11.6	ND	53	35-97	9	30	M-02
4-Chloro-3-methylphenol	8.17	0.47	mg/kg	11.6	ND	70	38-114	5	30	M-02
4-Nitrophenol	6.94	0.47	mg/kg	11.6	ND	60	28-115	11	30	M-02
Acenaphthene	7.88	0.47	mg/kg	11.6	ND	68	49-103	2	30	M-02
N-Nitrosodi-n-propylamine	7.03	0.47	mg/kg	11.6	ND	60	31-120	9	30	M-02
Pentachlorophenol	9.06	0.47	mg/kg	11.6	0.209	76	23-114	15	30	M-02
Phenol	6.37	0.47	mg/kg	11.6	ND	55	31-102	7	30	M-02
Pyrene	3.45	0.47	mg/kg	11.6	ND	30	47-122	21	30	M-02

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0775 - EPA 8270C (Continued)										
Matrix Spike Dup (W7I0775-MSD1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/22/17**						
Surrogate(s)										
2,4,6-Tribromophenol	*15.4*		*mg/kg*	*23.3*		*66*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.44*		*mg/kg*	*11.6*		*64*	*36-107*			*M-02*
2-Fluorophenol	*11.3*		*mg/kg*	*23.3*		*49*	*33-119*			*M-02*
Nitrobenzene-d5	*6.65*		*mg/kg*	*11.6*		*57*	*36-114*			*M-02*
Phenol-d5	*14.9*		*mg/kg*	*23.3*		*64*	*40-118*			*M-02*
Terphenyl-d14	*2.92*		*mg/kg*	*11.6*		*25*	*40-121*			*M-02, S-GC*

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Quality Control Results

(Continued)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0295 - EPA 8270C SIM										
Blank (W7I0295-BLK1)				**Prepared: 09/07/17 Analyzed: 09/13/17**						
1-Methylnaphthalene	ND	5.0	ug/kg							
2-Methylnaphthalene	ND	5.0	ug/kg							
Acenaphthene	ND	5.0	ug/kg							
Acenaphthylene	ND	5.0	ug/kg							
Anthracene	ND	5.0	ug/kg							
Benzo (a) anthracene	ND	5.0	ug/kg							
Benzo (a) pyrene	ND	5.0	ug/kg							
Benzo (b) fluoranthene	ND	5.0	ug/kg							
Benzo (g,h,i) perylene	ND	5.0	ug/kg							
Benzo (k) fluoranthene	ND	5.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo (a,h) anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno (1,2,3-cd) pyrene	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate(s)										
2-Fluorobiphenyl	*116*		*ug/kg*	*167*		*69*	*0.1-109*			
Nitrobenzene-d5	*101*		*ug/kg*	*167*		*61*	*0.1-107*			
Terphenyl-d14	*149*		*ug/kg*	*167*		*89*	*28-128*			
LCS (W7I0295-BS1)				**Prepared: 09/07/17 Analyzed: 09/13/17**						
Acenaphthene	300	5.0	ug/kg	333		90	27-103			
Acenaphthylene	309	5.0	ug/kg	333		93	29-112			
Anthracene	319	5.0	ug/kg	333		96	31-119			
Benzo (a) anthracene	361	5.0	ug/kg	333		108	26-132			
Benzo (a) pyrene	328	5.0	ug/kg	333		98	19-146			
Benzo (b) fluoranthene	339	5.0	ug/kg	333		102	40-120			
Benzo (g,h,i) perylene	279	5.0	ug/kg	333		84	18-135			
Benzo (k) fluoranthene	308	5.0	ug/kg	333		92	40-120			
Chrysene	313	5.0	ug/kg	333		94	40-120			
Dibenzo (a,h) anthracene	299	5.0	ug/kg	333		90	20-137			
Fluoranthene	345	5.0	ug/kg	333		104	33-123			
Fluorene	311	5.0	ug/kg	333		93	33-106			
Indeno (1,2,3-cd) pyrene	305	5.0	ug/kg	333		92	16-136			
Naphthalene	275	5.0	ug/kg	333		83	22-98			

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Quality Control Results

(Continued)

Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0295 - EPA 8270C SIM (Continued)										
LCS (W7I0295-BS1)				**Prepared: 09/07/17 Analyzed: 09/13/17**						
Phenanthrene	321	5.0	ug/kg	333		96	32-110			
Pyrene	341	5.0	ug/kg	333		102	34-122			
Surrogate(s)										
2-Fluorobiphenyl	*117*		*ug/kg*	*167*		*70*	*0.1-109*			
Nitrobenzene-d5	*101*		*ug/kg*	*167*		*61*	*0.1-107*			
Terphenyl-d14	*152*		*ug/kg*	*167*		*91*	*28-128*			
Matrix Spike (W7I0295-MS1)	**Source: 7H09100-01**			**Prepared: 09/07/17 Analyzed: 09/13/17**						
Acenaphthene	4410	74	ug/kg	4900	ND	90	5-115			M-02
Acenaphthylene	4590	74	ug/kg	4900	ND	94	8-111			M-02
Anthracene	4400	74	ug/kg	4900	ND	90	3-132			M-02
Benzo (a) anthracene	2180	74	ug/kg	4900	ND	45	14-125			M-02
Benzo (a) pyrene	1750	74	ug/kg	4900	ND	36	2-138			M-02
Benzo (b) fluoranthene	2100	74	ug/kg	4900	ND	43	20-150			M-02
Benzo (g,h,i) perylene	2060	74	ug/kg	4900	ND	42	9-129			M-02
Benzo (k) fluoranthene	1930	74	ug/kg	4900	ND	39	20-150			M-02
Chrysene	4030	74	ug/kg	4900	ND	82	20-150			M-02
Dibenzo (a,h) anthracene	2240	74	ug/kg	4900	ND	46	10-144			M-02
Fluoranthene	3890	74	ug/kg	4900	ND	79	11-127			M-02
Fluorene	4520	74	ug/kg	4900	ND	92	4-125			M-02
Indeno (1,2,3-cd) pyrene	2450	74	ug/kg	4900	ND	50	3-137			M-02
Naphthalene	3700	74	ug/kg	4900	ND	76	0.1-117			M-02
Phenanthrene	4430	74	ug/kg	4900	ND	90	10-122			M-02
Pyrene	2080	74	ug/kg	4900	ND	42	10-128			M-02
Surrogate(s)										
2-Fluorobiphenyl	*1790*		*ug/kg*	*2450*		*73*	*0.1-109*			*M-02*
Nitrobenzene-d5	*1370*		*ug/kg*	*2450*		*56*	*0.1-107*			*M-02*
Terphenyl-d14	*1670*		*ug/kg*	*2450*		*68*	*28-128*			*M-02*
Matrix Spike Dup (W7I0295-MSD1)	**Source: 7H09100-01**			**Prepared: 09/07/17 Analyzed: 09/13/17**						
Acenaphthene	3980	72	ug/kg	4830	ND	82	5-115	10	30	M-02
Acenaphthylene	4060	72	ug/kg	4830	ND	84	8-111	12	30	M-02
Anthracene	4120	72	ug/kg	4830	ND	85	3-132	6	30	M-02
Benzo (a) anthracene	1190	72	ug/kg	4830	ND	25	14-125	59	30	M-02, MS-05
Benzo (a) pyrene	1480	72	ug/kg	4830	ND	31	2-138	17	30	M-02
Benzo (b) fluoranthene	1750	72	ug/kg	4830	ND	36	20-150	18	30	M-02
Benzo (g,h,i) perylene	2500	72	ug/kg	4830	ND	52	9-129	19	30	M-02
Benzo (k) fluoranthene	1610	72	ug/kg	4830	ND	33	20-150	18	30	M-02
Chrysene	3750	72	ug/kg	4830	ND	78	20-150	7	30	M-02

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Quality Control Results

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0295 - EPA 8270C SIM (Continued)										
Matrix Spike Dup (W7I0295-MSD1)	**Source: 7H09100-01**			**Prepared: 09/07/17 Analyzed: 09/13/17**						
Dibenzo (a,h) anthracene	2660	72	ug/kg	4830	ND	55	10-144	17	30	M-02
Fluoranthene	2930	72	ug/kg	4830	ND	61	11-127	28	30	M-02
Fluorene	4110	72	ug/kg	4830	ND	85	4-125	10	30	M-02
Indeno (1,2,3-cd) pyrene	2760	72	ug/kg	4830	ND	57	3-137	12	30	M-02
Naphthalene	3140	72	ug/kg	4830	ND	65	0.1-117	17	30	M-02
Phenanthrene	4190	72	ug/kg	4830	ND	87	10-122	6	30	M-02
Pyrene	1490	72	ug/kg	4830	ND	31	10-128	33	30	M-02, MS-05
Surrogate(s)										
2-Fluorobiphenyl	*1610*		*ug/kg*	*2420*		*67*	*0.1-109*			*M-02*
Nitrobenzene-d5	*1150*		*ug/kg*	*2420*		*48*	*0.1-107*			*M-02*
Terphenyl-d14	*1140*		*ug/kg*	*2420*		*47*	*28-128*			*M-02*
Batch: W7I0773 - EPA 8270C SIM										
Blank (W7I0773-BLK1)				**Prepared: 09/14/17 Analyzed: 09/19/17**						
1-Methylnaphthalene	ND	5.0	ug/kg							
2-Methylnaphthalene	ND	5.0	ug/kg							
Acenaphthene	ND	5.0	ug/kg							
Acenaphthylene	ND	5.0	ug/kg							
Anthracene	ND	5.0	ug/kg							
Benzo (a) anthracene	ND	5.0	ug/kg							
Benzo (a) pyrene	ND	5.0	ug/kg							
Benzo (b) fluoranthene	ND	5.0	ug/kg							
Benzo (g,h,i) perylene	ND	5.0	ug/kg							
Benzo (k) fluoranthene	ND	5.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo (a,h) anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno (1,2,3-cd) pyrene	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate(s)										
2-Fluorobiphenyl	*105*		*ug/kg*	*167*		*63*	*0.1-109*			
Nitrobenzene-d5	*99.1*		*ug/kg*	*167*		*59*	*0.1-107*			
Terphenyl-d14	*146*		*ug/kg*	*167*		*88*	*28-128*			
LCS (W7I0773-BS1)				**Prepared: 09/14/17 Analyzed: 09/19/17**						
Acenaphthene	240	5.0	ug/kg	333		72	27-103			

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0773 - EPA 8270C SIM (Continued)										
LCS (W7I0773-BS1)				**Prepared: 09/14/17 Analyzed: 09/19/17**						
Acenaphthylene	249	5.0	ug/kg	333		75	29-112			
Anthracene	266	5.0	ug/kg	333		80	31-119			
Benzo (a) anthracene	306	5.0	ug/kg	333		92	26-132			
Benzo (a) pyrene	245	5.0	ug/kg	333		74	19-146			
Benzo (b) fluoranthene	263	5.0	ug/kg	333		79	40-120			
Benzo (g,h,i) perylene	156	5.0	ug/kg	333		47	18-135			
Benzo (k) fluoranthene	241	5.0	ug/kg	333		72	40-120			
Chrysene	259	5.0	ug/kg	333		78	40-120			
Dibenzo (a,h) anthracene	193	5.0	ug/kg	333		58	20-137			
Fluoranthene	297	5.0	ug/kg	333		89	33-123			
Fluorene	256	5.0	ug/kg	333		77	33-106			
Indeno (1,2,3-cd) pyrene	198	5.0	ug/kg	333		59	16-136			
Naphthalene	209	5.0	ug/kg	333		63	22-98			
Phenanthrene	270	5.0	ug/kg	333		81	32-110			
Pyrene	294	5.0	ug/kg	333		88	34-122			
Surrogate(s)										
2-Fluorobiphenyl		*97.4*	*ug/kg*	*167*		*58*	*0.1-109*			
Nitrobenzene-d5		*88.8*	*ug/kg*	*167*		*53*	*0.1-107*			
Terphenyl-d14		*145*	*ug/kg*	*167*		*87*	*28-128*			
Matrix Spike (W7I0773-MS1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/20/17**						
Acenaphthene	3310	72	ug/kg	4830	ND	69	5-115			M-02
Acenaphthylene	3430	72	ug/kg	4830	ND	71	8-111			M-02
Anthracene	3480	72	ug/kg	4830	ND	72	3-132			M-02
Benzo (a) anthracene	1500	72	ug/kg	4830	ND	31	14-125			M-02
Benzo (a) pyrene	1470	72	ug/kg	4830	ND	30	2-138			M-02
Benzo (b) fluoranthene	1750	72	ug/kg	4830	ND	36	20-150			M-02
Benzo (g,h,i) perylene	1760	72	ug/kg	4830	18.9	36	9-129			M-02
Benzo (k) fluoranthene	1590	72	ug/kg	4830	ND	33	20-150			M-02
Chrysene	3220	72	ug/kg	4830	ND	67	20-150			M-02
Dibenzo (a,h) anthracene	2010	72	ug/kg	4830	28.7	41	10-144			M-02
Fluoranthene	2250	72	ug/kg	4830	ND	47	11-127			M-02
Fluorene	3460	72	ug/kg	4830	ND	72	4-125			M-02
Indeno (1,2,3-cd) pyrene	2100	72	ug/kg	4830	26.0	43	3-137			M-02
Naphthalene	2730	72	ug/kg	4830	ND	57	0.1-117			M-02
Phenanthrene	3540	72	ug/kg	4830	ND	73	10-122			M-02
Pyrene	1810	72	ug/kg	4830	ND	37	10-128			M-02
Surrogate(s)										
2-Fluorobiphenyl		*1380*	*ug/kg*	*2420*		*57*	*0.1-109*			*M-02*

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0773 - EPA 8270C SIM (Continued)										
Matrix Spike (W7I0773-MS1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/20/17**						
Surrogate(s)										
Nitrobenzene-d5	*1180*		*ug/kg*	*2420*		*49*	*0.1-107*			*M-02*
Terphenyl-d14	*1100*		*ug/kg*	*2420*		*46*	*28-128*			*M-02*
Matrix Spike Dup (W7I0773-MSD1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/20/17**						
Acenaphthene	3360	74	ug/kg	4900	ND	68	5-115	1	30	M-02
Acenaphthylene	3480	74	ug/kg	4900	ND	71	8-111	2	30	M-02
Anthracene	3550	74	ug/kg	4900	ND	72	3-132	2	30	M-02
Benzo (a) anthracene	1120	74	ug/kg	4900	ND	23	14-125	29	30	M-02
Benzo (a) pyrene	1440	74	ug/kg	4900	ND	29	2-138	2	30	M-02
Benzo (b) fluoranthene	1710	74	ug/kg	4900	ND	35	20-150	2	30	M-02
Benzo (g,h,i) perylene	1970	74	ug/kg	4900	18.9	40	9-129	11	30	M-02
Benzo (k) fluoranthene	1540	74	ug/kg	4900	ND	31	20-150	3	30	M-02
Chrysene	3230	74	ug/kg	4900	ND	66	20-150	0.4	30	M-02
Dibenzo (a,h) anthracene	2190	74	ug/kg	4900	28.7	44	10-144	9	30	M-02
Fluoranthene	2120	74	ug/kg	4900	ND	43	11-127	6	30	M-02
Fluorene	3420	74	ug/kg	4900	ND	70	4-125	1	30	M-02
Indeno (1,2,3-cd) pyrene	2250	74	ug/kg	4900	26.0	45	3-137	7	30	M-02
Naphthalene	2760	74	ug/kg	4900	ND	56	0.1-117	1	30	M-02
Phenanthrene	3590	74	ug/kg	4900	ND	73	10-122	1	30	M-02
Pyrene	1440	74	ug/kg	4900	ND	29	10-128	23	30	M-02
Surrogate(s)										
2-Fluorobiphenyl	*1440*		*ug/kg*	*2450*		*59*	*0.1-109*			*M-02*
Nitrobenzene-d5	*1110*		*ug/kg*	*2450*		*45*	*0.1-107*			*M-02*
Terphenyl-d14	*1100*		*ug/kg*	*2450*		*45*	*28-128*			*M-02*

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Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0154 - EPA 8260B										
Blank (W7I0154-BLK1)				**Prepared: 09/05/17 Analyzed: 09/07/17**						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2-Trichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
1,1-Dichloropropene	ND	5.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg							
1,2-Dichloroethane	ND	5.0	ug/kg							
1,2-Dichloropropane	ND	5.0	ug/kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/kg							
1,3-Dichloropropane	ND	5.0	ug/kg							
2,2-Dichloropropane	ND	5.0	ug/kg							
2-Butanone	ND	5.0	ug/kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
2-Hexanone	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
4-Methyl-2-pentanone	ND	5.0	ug/kg							
Acetone	ND	5.0	ug/kg							
Acrolein	ND	5.0	ug/kg							
Acrylonitrile	ND	5.0	ug/kg							
Benzene	ND	5.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	5.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	5.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	5.0	ug/kg							

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0154 - EPA 8260B (Continued)										
Blank (W7I0154-BLK1)				**Prepared: 09/05/17 Analyzed: 09/07/17**						
Chloromethane	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	5.0	ug/kg							
cis-1,3-Dichloropropene	ND	5.0	ug/kg							
Dibromochloromethane	ND	5.0	ug/kg							
Dibromomethane	ND	5.0	ug/kg							
Dichlorodifluoromethane (Freon 12)	ND	5.0	ug/kg							
Ethylbenzene	ND	5.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	5.0	ug/kg							
m,p-Xylene	ND	5.0	ug/kg							
m-Dichlorobenzene	ND	5.0	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
n-Propylbenzene	ND	5.0	ug/kg							
o-Dichlorobenzene	ND	5.0	ug/kg							
o-Xylene	ND	5.0	ug/kg							
p-Dichlorobenzene	ND	5.0	ug/kg							
p-Isopropyltoluene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
Styrene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Tetrachloroethene	ND	5.0	ug/kg							
Toluene	ND	5.0	ug/kg							
trans-1,2-Dichloroethene	ND	5.0	ug/kg							
trans-1,3-Dichloropropene	ND	5.0	ug/kg							
Trichloroethene	ND	5.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
Surrogate(s)										
1,2-Dichloroethane-d4		*46.6*	*ug/kg*	*50.0*		*93*	*78-140*			
4-Bromofluorobenzene		*47.0*	*ug/kg*	*50.0*		*94*	*85-116*			
Dibromofluoromethane		*48.2*	*ug/kg*	*50.0*		*96*	*84-120*			
Toluene-d8		*48.5*	*ug/kg*	*50.0*		*97*	*82-120*			
LCS (W7I0154-BS1)				**Prepared: 09/05/17 Analyzed: 09/07/17**						
1,1,1,2-Tetrachloroethane	53.2	5.0	ug/kg	50.0		106	81-120			

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0154 - EPA 8260B (Continued)										
LCS (W7I0154-BS1)				**Prepared: 09/05/17 Analyzed: 09/07/17**						
1,1,1-Trichloroethane	49.2	5.0	ug/kg	50.0		98	78-125			
1,1,2,2-Tetrachloroethane	48.6	5.0	ug/kg	50.0		97	67-115			
1,1,2-Trichloroethane	51.1	5.0	ug/kg	50.0		102	85-121			
1,1-Dichloroethane	48.6	5.0	ug/kg	50.0		97	84-118			
1,1-Dichloroethene	48.1	5.0	ug/kg	50.0		96	80-123			
1,1-Dichloropropene	51.4	5.0	ug/kg	50.0		103	79-128			
1,2,3-Trichlorobenzene	54.9	5.0	ug/kg	50.0		110	36-201			
1,2,3-Trichloropropane	46.9	5.0	ug/kg	50.0		94	65-115			
1,2,4-Trichlorobenzene	54.7	5.0	ug/kg	50.0		109	69-143			
1,2,4-Trimethylbenzene	53.1	5.0	ug/kg	50.0		106	70-119			
1,2-Dibromo-3-chloropropane	50.2	5.0	ug/kg	50.0		100	62-140			
1,2-Dibromoethane (EDB)	50.2	5.0	ug/kg	50.0		100	86-125			
1,2-Dichloroethane	47.1	5.0	ug/kg	50.0		94	74-123			
1,2-Dichloropropane	49.4	5.0	ug/kg	50.0		99	83-122			
1,3,5-Trimethylbenzene	53.2	5.0	ug/kg	50.0		106	66-122			
1,3-Dichloropropane	48.6	5.0	ug/kg	50.0		97	85-122			
2,2-Dichloropropane	49.3	5.0	ug/kg	50.0		99	78-124			
2-Butanone	44.1	5.0	ug/kg	50.0		88	65-139			
2-Chloroethyl vinyl ether	45.6	5.0	ug/kg	50.0		91	62-134			
2-Chlorotoluene	50.3	5.0	ug/kg	50.0		101	65-118			
2-Hexanone	47.0	5.0	ug/kg	50.0		94	72-138			
4-Chlorotoluene	51.5	5.0	ug/kg	50.0		103	71-116			
4-Methyl-2-pentanone	44.6	5.0	ug/kg	50.0		89	70-133			
Acetone	36.5	5.0	ug/kg	50.0		73	57-138			
Acrolein	40.0	5.0	ug/kg	50.0		80	57-139			
Acrylonitrile	45.5	5.0	ug/kg	50.0		91	78-124			
Benzene	49.4	5.0	ug/kg	50.0		99	83-121			
Bromobenzene	49.0	5.0	ug/kg	50.0		98	67-115			
Bromochloromethane	49.7	5.0	ug/kg	50.0		99	82-117			
Bromodichloromethane	47.5	5.0	ug/kg	50.0		95	78-122			
Bromoform	53.1	5.0	ug/kg	50.0		106	83-125			
Bromomethane	49.7	5.0	ug/kg	50.0		99	58-133			
Carbon tetrachloride	48.6	5.0	ug/kg	50.0		97	79-126			
Chlorobenzene	48.6	5.0	ug/kg	50.0		97	84-118			
Chloroethane	42.6	5.0	ug/kg	50.0		85	58-135			
Chloroform	48.4	5.0	ug/kg	50.0		97	80-123			
Chloromethane	51.2	5.0	ug/kg	50.0		102	58-128			

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0154 - EPA 8260B (Continued)										
LCS (W7I0154-BS1)				**Prepared: 09/05/17 Analyzed: 09/07/17**						
cis-1,2-Dichloroethene	52.1	5.0	ug/kg	50.0		104	83-120			
cis-1,3-Dichloropropene	51.1	5.0	ug/kg	50.0		102	88-123			
Dibromochloromethane	50.0	5.0	ug/kg	50.0		100	83-124			
Dibromomethane	48.4	5.0	ug/kg	50.0		97	84-123			
Dichlorodifluoromethane (Freon 12)	54.2	5.0	ug/kg	50.0		108	67-126			
Ethylbenzene	50.6	5.0	ug/kg	50.0		101	80-120			
Hexachlorobutadiene	50.8	5.0	ug/kg	50.0		102	70-130			
Isopropylbenzene	53.2	5.0	ug/kg	50.0		106	66-122			
m,p-Xylene	51.7	5.0	ug/kg	50.0		103	78-120			
m-Dichlorobenzene	49.6	5.0	ug/kg	50.0		99	75-119			
Methyl tert-butyl ether (MTBE)	51.3	5.0	ug/kg	50.0		103	83-122			
Methylene chloride	45.9	5.0	ug/kg	50.0		92	76-118			
Naphthalene	58.2	5.0	ug/kg	50.0		116	42-190			
n-Butylbenzene	54.5	5.0	ug/kg	50.0		109	68-119			
n-Propylbenzene	51.7	5.0	ug/kg	50.0		103	64-120			
o-Dichlorobenzene	49.9	5.0	ug/kg	50.0		100	77-117			
o-Xylene	55.2	5.0	ug/kg	50.0		110	77-126			
p-Dichlorobenzene	50.6	5.0	ug/kg	50.0		101	76-119			
p-Isopropyltoluene	57.0	5.0	ug/kg	50.0		114	70-123			
sec-Butylbenzene	50.4	5.0	ug/kg	50.0		101	67-120			
Styrene	54.9	5.0	ug/kg	50.0		110	84-125			
tert-Butylbenzene	52.0	5.0	ug/kg	50.0		104	70-119			
Tetrachloroethene	48.9	5.0	ug/kg	50.0		98	80-129			
Toluene	49.6	5.0	ug/kg	50.0		99	81-126			
trans-1,2-Dichloroethene	49.7	5.0	ug/kg	50.0		99	82-123			
trans-1,3-Dichloropropene	45.9	5.0	ug/kg	50.0		92	81-131			
Trichloroethene	48.9	5.0	ug/kg	50.0		98	82-118			
Trichlorofluoromethane	45.4	5.0	ug/kg	50.0		91	72-129			
Vinyl chloride	49.8	5.0	ug/kg	50.0		100	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4		*47.5*	*ug/kg*	*50.0*		*95*	*78-140*			
4-Bromofluorobenzene		*50.5*	*ug/kg*	*50.0*		*101*	*85-116*			
Dibromofluoromethane		*48.9*	*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8		*49.1*	*ug/kg*	*50.0*		*98*	*82-120*			
Matrix Spike (W7I0154-MS1)	**Source: 7H09100-08**			**Prepared: 09/05/17 Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	2730	250	ug/kg	2500	ND	109	50-150			
1,1,1-Trichloroethane	2550	250	ug/kg	2500	ND	102	50-150			

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0154 - EPA 8260B (Continued)										
Matrix Spike (W7I0154-MS1)	**Source: 7H09100-08**			**Prepared: 09/05/17**	**Analyzed: 09/08/17**					
1,1,2,2-Tetrachloroethane	2780	250	ug/kg	2500	ND	111	50-150			
1,1,2-Trichloroethane	2990	250	ug/kg	2500	ND	120	50-150			
1,1-Dichloroethane	2520	250	ug/kg	2500	ND	101	50-150			
1,1-Dichloroethene	2420	250	ug/kg	2500	ND	97	38-139			
1,1-Dichloropropene	2650	250	ug/kg	2500	ND	106	50-150			
1,2,3-Trichlorobenzene	2650	250	ug/kg	2500	ND	106	50-150			
1,2,3-Trichloropropane	2650	250	ug/kg	2500	ND	106	50-150			
1,2,4-Trichlorobenzene	2800	250	ug/kg	2500	ND	112	50-150			
1,2,4-Trimethylbenzene	2800	250	ug/kg	2500	ND	112	50-150			
1,2-Dibromo-3-chloropropane	2590	250	ug/kg	2500	ND	104	50-150			
1,2-Dibromoethane (EDB)	2920	250	ug/kg	2500	ND	117	50-150			
1,2-Dichloroethane	2700	250	ug/kg	2500	ND	108	50-150			
1,2-Dichloropropane	2790	250	ug/kg	2500	ND	112	50-150			
1,3,5-Trimethylbenzene	2760	250	ug/kg	2500	ND	110	50-150			
1,3-Dichloropropane	2980	250	ug/kg	2500	ND	119	50-150			
2,2-Dichloropropane	2750	250	ug/kg	2500	ND	110	50-150			
2-Butanone	3000	250	ug/kg	2500	ND	120	50-150			
2-Chloroethyl vinyl ether	3190	250	ug/kg	2500	ND	128	50-150			
2-Chlorotoluene	2750	250	ug/kg	2500	ND	110	50-150			
2-Hexanone	2960	250	ug/kg	2500	ND	118	50-150			
4-Chlorotoluene	2820	250	ug/kg	2500	ND	113	50-150			
4-Methyl-2-pentanone	3020	250	ug/kg	2500	ND	121	50-150			
Acetone	2260	250	ug/kg	2500	459	72	50-150			
Acrolein	1910	250	ug/kg	2500	ND	76	50-150			
Acrylonitrile	2280	250	ug/kg	2500	ND	91	50-150			
Benzene	2680	250	ug/kg	2500	ND	107	30-134			
Bromobenzene	2750	250	ug/kg	2500	ND	110	50-150			
Bromochloromethane	2520	250	ug/kg	2500	ND	101	50-150			
Bromodichloromethane	2790	250	ug/kg	2500	ND	112	50-150			
Bromoform	2920	250	ug/kg	2500	ND	117	50-150			
Bromomethane	2530	250	ug/kg	2500	ND	101	50-150			
Carbon tetrachloride	2510	250	ug/kg	2500	ND	100	50-150			
Chlorobenzene	2740	250	ug/kg	2500	ND	110	3-135			
Chloroethane	284	250	ug/kg	2500	ND	11	50-150			MS-05
Chloroform	2580	250	ug/kg	2500	ND	103	50-150			
Chloromethane	2680	250	ug/kg	2500	ND	107	50-150			
cis-1,2-Dichloroethene	2660	250	ug/kg	2500	ND	107	50-150			

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0154 - EPA 8260B (Continued)										
Matrix Spike (W7I0154-MS1)	**Source: 7H09100-08**			**Prepared: 09/05/17**	**Analyzed: 09/08/17**					
cis-1,3-Dichloropropene	3000	250	ug/kg	2500	ND	120	50-150			
Dibromochloromethane	3080	250	ug/kg	2500	ND	123	50-150			
Dibromomethane	2860	250	ug/kg	2500	ND	114	50-150			
Dichlorodifluoromethane (Freon 12)	2570	250	ug/kg	2500	ND	103	50-150			
Ethylbenzene	2760	250	ug/kg	2500	ND	110	50-150			
Hexachlorobutadiene	2480	250	ug/kg	2500	ND	99	50-150			
Isopropylbenzene	2740	250	ug/kg	2500	ND	109	50-150			
m,p-Xylene	2840	250	ug/kg	2500	ND	114	50-150			
m-Dichlorobenzene	2680	250	ug/kg	2500	ND	107	50-150			
Methyl tert-butyl ether (MTBE)	2570	250	ug/kg	2500	ND	103	50-150			
Methylene chloride	2550	250	ug/kg	2500	ND	102	50-150			
Naphthalene	2770	250	ug/kg	2500	ND	111	50-150			
n-Butylbenzene	2840	250	ug/kg	2500	ND	114	50-150			
n-Propylbenzene	2770	250	ug/kg	2500	ND	111	50-150			
o-Dichlorobenzene	2670	250	ug/kg	2500	ND	107	50-150			
o-Xylene	2930	250	ug/kg	2500	ND	117	50-150			
p-Dichlorobenzene	2770	250	ug/kg	2500	ND	111	50-150			
p-Isopropyltoluene	2790	250	ug/kg	2500	ND	112	50-150			
sec-Butylbenzene	2740	250	ug/kg	2500	ND	110	50-150			
Styrene	3010	250	ug/kg	2500	ND	120	50-150			
tert-Butylbenzene	2740	250	ug/kg	2500	ND	110	50-150			
Tetrachloroethene	2770	250	ug/kg	2500	ND	111	50-150			
Toluene	2810	250	ug/kg	2500	ND	112	11-140			
trans-1,2-Dichloroethene	2520	250	ug/kg	2500	ND	101	50-150			
trans-1,3-Dichloropropene	2860	250	ug/kg	2500	ND	114	50-150			
Trichloroethene	2620	250	ug/kg	2500	ND	105	10-144			
Trichlorofluoromethane	1430	250	ug/kg	2500	ND	57	50-150			
Vinyl chloride	2310	250	ug/kg	2500	ND	93	50-150			
Surrogate(s)										
1,2-Dichloroethane-d4	*46.4*		*ug/kg*	*50.0*		*93*	*78-140*			
4-Bromofluorobenzene	*50.4*		*ug/kg*	*50.0*		*101*	*85-116*			
Dibromofluoromethane	*46.8*		*ug/kg*	*50.0*		*94*	*84-120*			
Toluene-d8	*52.4*		*ug/kg*	*50.0*		*105*	*82-120*			
Matrix Spike Dup (W7I0154-MSD1)	**Source: 7H09100-08**			**Prepared: 09/05/17**	**Analyzed: 09/08/17**					
1,1,1,2-Tetrachloroethane	2420	250	ug/kg	2500	ND	97	50-150	12	25	
1,1,1-Trichloroethane	2330	250	ug/kg	2500	ND	93	50-150	9	25	
1,1,2,2-Tetrachloroethane	2470	250	ug/kg	2500	ND	99	50-150	12	25	

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0154 - EPA 8260B (Continued)										
Matrix Spike Dup (W7I0154-MSD1)	**Source: 7H09100-08**			**Prepared: 09/05/17 Analyzed: 09/08/17**						
1,1,2-Trichloroethane	2560	250	ug/kg	2500	ND	103	50-150	15	25	
1,1-Dichloroethane	2320	250	ug/kg	2500	ND	93	50-150	8	25	
1,1-Dichloroethene	2320	250	ug/kg	2500	ND	93	38-139	4	25	
1,1-Dichloropropene	2420	250	ug/kg	2500	ND	97	50-150	9	25	
1,2,3-Trichlorobenzene	2370	250	ug/kg	2500	ND	95	50-150	11	25	
1,2,3-Trichloropropane	2360	250	ug/kg	2500	ND	94	50-150	12	25	
1,2,4-Trichlorobenzene	2470	250	ug/kg	2500	ND	99	50-150	12	25	
1,2,4-Trimethylbenzene	2540	250	ug/kg	2500	ND	102	50-150	10	25	
1,2-Dibromo-3-chloropropane	2270	250	ug/kg	2500	ND	91	50-150	13	25	
1,2-Dibromoethane (EDB)	2590	250	ug/kg	2500	ND	104	50-150	12	25	
1,2-Dichloroethane	2360	250	ug/kg	2500	ND	95	50-150	13	25	
1,2-Dichloropropane	2430	250	ug/kg	2500	ND	97	50-150	14	25	
1,3,5-Trimethylbenzene	2530	250	ug/kg	2500	ND	101	50-150	9	25	
1,3-Dichloropropane	2640	250	ug/kg	2500	ND	106	50-150	12	25	
2,2-Dichloropropane	2440	250	ug/kg	2500	ND	98	50-150	12	25	
2-Butanone	2600	250	ug/kg	2500	ND	104	50-150	14	25	
2-Chloroethyl vinyl ether	3210	250	ug/kg	2500	ND	128	50-150	0.5	25	
2-Chlorotoluene	2510	250	ug/kg	2500	ND	100	50-150	9	25	
2-Hexanone	2670	250	ug/kg	2500	ND	107	50-150	10	25	
4-Chlorotoluene	2520	250	ug/kg	2500	ND	101	50-150	11	25	
4-Methyl-2-pentanone	2660	250	ug/kg	2500	ND	106	50-150	13	25	
Acetone	2110	250	ug/kg	2500	459	66	50-150	7	25	
Acrolein	1820	250	ug/kg	2500	ND	73	50-150	5	25	
Acrylonitrile	2330	250	ug/kg	2500	ND	93	50-150	2	25	
Benzene	2390	250	ug/kg	2500	ND	96	30-134	11	25	
Bromobenzene	2470	250	ug/kg	2500	ND	99	50-150	11	25	
Bromochloromethane	2280	250	ug/kg	2500	ND	91	50-150	10	25	
Bromodichloromethane	2410	250	ug/kg	2500	ND	96	50-150	15	25	
Bromoform	2480	250	ug/kg	2500	ND	99	50-150	16	25	
Bromomethane	2360	250	ug/kg	2500	ND	94	50-150	7	25	
Carbon tetrachloride	2270	250	ug/kg	2500	ND	91	50-150	10	25	
Chlorobenzene	2440	250	ug/kg	2500	ND	98	3-135	11	25	
Chloroethane	252	250	ug/kg	2500	ND	10	50-150	200	25	MS-05
Chloroform	2320	250	ug/kg	2500	ND	93	50-150	11	25	
Chloromethane	2480	250	ug/kg	2500	ND	99	50-150	8	25	
cis-1,2-Dichloroethene	2360	250	ug/kg	2500	ND	94	50-150	12	25	
cis-1,3-Dichloropropene	2610	250	ug/kg	2500	ND	105	50-150	14	25	

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Quality Control Results

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0154 - EPA 8260B (Continued)										
Matrix Spike Dup (W7I0154-MSD1)	**Source: 7H09100-08**			**Prepared: 09/05/17 Analyzed: 09/08/17**						
Dibromochloromethane	2670	250	ug/kg	2500	ND	107	50-150	14	25	
Dibromomethane	2400	250	ug/kg	2500	ND	96	50-150	17	25	
Dichlorodifluoromethane (Freon 12)	2460	250	ug/kg	2500	ND	98	50-150	4	25	
Ethylbenzene	2480	250	ug/kg	2500	ND	99	50-150	11	25	
Hexachlorobutadiene	2140	250	ug/kg	2500	ND	86	50-150	14	25	
Isopropylbenzene	2560	250	ug/kg	2500	ND	102	50-150	7	25	
m,p-Xylene	2580	250	ug/kg	2500	ND	103	50-150	10	25	
m-Dichlorobenzene	2440	250	ug/kg	2500	ND	98	50-150	9	25	
Methyl tert-butyl ether (MTBE)	2290	250	ug/kg	2500	ND	92	50-150	11	25	
Methylene chloride	2290	250	ug/kg	2500	ND	92	50-150	11	25	
Naphthalene	2560	250	ug/kg	2500	ND	102	50-150	8	25	
n-Butylbenzene	2560	250	ug/kg	2500	ND	102	50-150	11	25	
n-Propylbenzene	2520	250	ug/kg	2500	ND	101	50-150	9	25	
o-Dichlorobenzene	2410	250	ug/kg	2500	ND	97	50-150	10	25	
o-Xylene	2640	250	ug/kg	2500	ND	105	50-150	11	25	
p-Dichlorobenzene	2480	250	ug/kg	2500	ND	99	50-150	11	25	
p-Isopropyltoluene	2580	250	ug/kg	2500	ND	103	50-150	8	25	
sec-Butylbenzene	2540	250	ug/kg	2500	ND	101	50-150	8	25	
Styrene	2650	250	ug/kg	2500	ND	106	50-150	13	25	
tert-Butylbenzene	2540	250	ug/kg	2500	ND	102	50-150	8	25	
Tetrachloroethene	2510	250	ug/kg	2500	ND	100	50-150	10	25	
Toluene	2530	250	ug/kg	2500	ND	101	11-140	11	25	
trans-1,2-Dichloroethene	2310	250	ug/kg	2500	ND	92	50-150	8	25	
trans-1,3-Dichloropropene	2480	250	ug/kg	2500	ND	99	50-150	14	25	
Trichloroethene	2360	250	ug/kg	2500	ND	94	10-144	11	25	
Trichlorofluoromethane	1410	250	ug/kg	2500	ND	57	50-150	0.9	25	
Vinyl chloride	2180	250	ug/kg	2500	ND	87	50-150	6	25	
Surrogate(s)										
1,2-Dichloroethane-d4		*46.8*	*ug/kg*	*50.0*		*94*	*78-140*			
4-Bromofluorobenzene		*50.8*	*ug/kg*	*50.0*		*102*	*85-116*			
Dibromofluoromethane		*47.3*	*ug/kg*	*50.0*		*95*	*84-120*			
Toluene-d8		*52.6*	*ug/kg*	*50.0*		*105*	*82-120*			
Batch: W7I0387 - EPA 8260B										
Blank (W7I0387-BLK1)				**Prepared & Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg							

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Quality Control Results

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Blank (W7I0387-BLK1)				**Prepared & Analyzed: 09/08/17**						
1,1,2-Trichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
1,1-Dichloropropene	ND	5.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg							
1,2-Dichloroethane	ND	5.0	ug/kg							
1,2-Dichloropropane	ND	5.0	ug/kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/kg							
1,3-Dichloropropane	ND	5.0	ug/kg							
2,2-Dichloropropane	ND	5.0	ug/kg							
2-Butanone	ND	5.0	ug/kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
2-Hexanone	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
4-Methyl-2-pentanone	ND	5.0	ug/kg							
Acetone	ND	5.0	ug/kg							
Acrolein	ND	5.0	ug/kg							
Acrylonitrile	ND	5.0	ug/kg							
Benzene	ND	5.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	5.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	5.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	5.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	5.0	ug/kg							
cis-1,3-Dichloropropene	ND	5.0	ug/kg							

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Blank (W7I0387-BLK1)				**Prepared & Analyzed: 09/08/17**						
Dibromochloromethane	ND	5.0	ug/kg							
Dibromomethane	ND	5.0	ug/kg							
Dichlorodifluoromethane (Freon 12)	ND	5.0	ug/kg							
Ethylbenzene	ND	5.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	5.0	ug/kg							
m,p-Xylene	ND	5.0	ug/kg							
m-Dichlorobenzene	ND	5.0	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
n-Propylbenzene	ND	5.0	ug/kg							
o-Dichlorobenzene	ND	5.0	ug/kg							
o-Xylene	ND	5.0	ug/kg							
p-Dichlorobenzene	ND	5.0	ug/kg							
p-Isopropyltoluene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
Styrene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Tetrachloroethene	ND	5.0	ug/kg							
Toluene	ND	5.0	ug/kg							
trans-1,2-Dichloroethene	ND	5.0	ug/kg							
trans-1,3-Dichloropropene	ND	5.0	ug/kg							
Trichloroethene	ND	5.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
Surrogate(s)										
1,2-Dichloroethane-d4	*46.6*		*ug/kg*	*50.0*		*93*	*78-140*			
4-Bromofluorobenzene	*48.1*		*ug/kg*	*50.0*		*96*	*85-116*			
Dibromofluoromethane	*47.7*		*ug/kg*	*50.0*		*95*	*84-120*			
Toluene-d8	*50.9*		*ug/kg*	*50.0*		*102*	*82-120*			
LCS (W7I0387-BS1)				**Prepared & Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	60.8	5.0	ug/kg	50.0		122	81-120			Q-08
1,1,1-Trichloroethane	59.0	5.0	ug/kg	50.0		118	78-125			
1,1,2,2-Tetrachloroethane	58.7	5.0	ug/kg	50.0		117	67-115			Q-08
1,1,2-Trichloroethane	57.3	5.0	ug/kg	50.0		115	85-121			

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(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
LCS (W7I0387-BS1)				**Prepared & Analyzed: 09/08/17**						
1,1-Dichloroethane	58.3	5.0	ug/kg	50.0		117	84-118			
1,1-Dichloroethene	50.1	5.0	ug/kg	50.0		100	80-123			
1,1-Dichloropropene	61.8	5.0	ug/kg	50.0		124	79-128			
1,2,3-Trichlorobenzene	62.7	5.0	ug/kg	50.0		125	36-201			
1,2,3-Trichloropropane	55.9	5.0	ug/kg	50.0		112	65-115			
1,2,4-Trichlorobenzene	65.6	5.0	ug/kg	50.0		131	69-143			
1,2,4-Trimethylbenzene	62.6	5.0	ug/kg	50.0		125	70-119			Q-08
1,2-Dibromo-3-chloropropane	54.1	5.0	ug/kg	50.0		108	62-140			
1,2-Dibromoethane (EDB)	57.5	5.0	ug/kg	50.0		115	86-125			
1,2-Dichloroethane	57.2	5.0	ug/kg	50.0		114	74-123			
1,2-Dichloropropane	60.4	5.0	ug/kg	50.0		121	83-122			
1,3,5-Trimethylbenzene	61.7	5.0	ug/kg	50.0		123	66-122			Q-08
1,3-Dichloropropane	59.6	5.0	ug/kg	50.0		119	85-122			
2,2-Dichloropropane	64.8	5.0	ug/kg	50.0		130	78-124			Q-08
2-Butanone	53.0	5.0	ug/kg	50.0		106	65-139			
2-Chloroethyl vinyl ether	82.8	5.0	ug/kg	50.0		166	62-134			Q-08
2-Chlorotoluene	60.9	5.0	ug/kg	50.0		122	65-118			Q-08
2-Hexanone	56.3	5.0	ug/kg	50.0		113	72-138			
4-Chlorotoluene	62.6	5.0	ug/kg	50.0		125	71-116			Q-08
4-Methyl-2-pentanone	54.8	5.0	ug/kg	50.0		110	70-133			
Acetone	41.9	5.0	ug/kg	50.0		84	57-138			
Acrolein	46.6	5.0	ug/kg	50.0		93	57-139			
Acrylonitrile	53.6	5.0	ug/kg	50.0		107	78-124			
Benzene	58.2	5.0	ug/kg	50.0		116	83-121			
Bromobenzene	60.6	5.0	ug/kg	50.0		121	67-115			Q-08
Bromochloromethane	59.0	5.0	ug/kg	50.0		118	82-117			Q-08
Bromodichloromethane	58.9	5.0	ug/kg	50.0		118	78-122			
Bromoform	59.7	5.0	ug/kg	50.0		119	83-125			
Bromomethane	40.6	5.0	ug/kg	50.0		81	58-133			
Carbon tetrachloride	58.0	5.0	ug/kg	50.0		116	79-126			
Chlorobenzene	58.3	5.0	ug/kg	50.0		117	84-118			
Chloroethane	36.6	5.0	ug/kg	50.0		73	58-135			
Chloroform	58.4	5.0	ug/kg	50.0		117	80-123			
Chloromethane	53.6	5.0	ug/kg	50.0		107	58-128			
cis-1,2-Dichloroethene	61.0	5.0	ug/kg	50.0		122	83-120			Q-08
cis-1,3-Dichloropropene	64.2	5.0	ug/kg	50.0		128	88-123			Q-08
Dibromochloromethane	60.0	5.0	ug/kg	50.0		120	83-124			

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Quality Control Results

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
LCS (W7I0387-BS1)				**Prepared & Analyzed: 09/08/17**						
Dibromomethane	58.8	5.0	ug/kg	50.0		118	84-123			
Dichlorodifluoromethane (Freon 12)	55.1	5.0	ug/kg	50.0		110	67-126			
Ethylbenzene	59.3	5.0	ug/kg	50.0		119	80-120			
Hexachlorobutadiene	60.0	5.0	ug/kg	50.0		120	70-130			
Isopropylbenzene	64.0	5.0	ug/kg	50.0		128	66-122			Q-08
m,p-Xylene	60.4	5.0	ug/kg	50.0		121	78-120			Q-08
m-Dichlorobenzene	58.7	5.0	ug/kg	50.0		117	75-119			
Methyl tert-butyl ether (MTBE)	58.8	5.0	ug/kg	50.0		118	83-122			
Methylene chloride	53.9	5.0	ug/kg	50.0		108	76-118			
Naphthalene	64.4	5.0	ug/kg	50.0		129	42-190			
n-Butylbenzene	63.3	5.0	ug/kg	50.0		127	68-119			Q-08
n-Propylbenzene	61.8	5.0	ug/kg	50.0		124	64-120			Q-08
o-Dichlorobenzene	58.3	5.0	ug/kg	50.0		117	77-117			
o-Xylene	62.1	5.0	ug/kg	50.0		124	77-126			
p-Dichlorobenzene	59.6	5.0	ug/kg	50.0		119	76-119			
p-Isopropyltoluene	62.1	5.0	ug/kg	50.0		124	70-123			Q-08
sec-Butylbenzene	60.5	5.0	ug/kg	50.0		121	67-120			Q-08
Styrene	61.1	5.0	ug/kg	50.0		122	84-125			
tert-Butylbenzene	61.3	5.0	ug/kg	50.0		123	70-119			Q-08
Tetrachloroethene	56.2	5.0	ug/kg	50.0		112	80-129			
Toluene	54.7	5.0	ug/kg	50.0		109	81-126			
trans-1,2-Dichloroethene	57.9	5.0	ug/kg	50.0		116	82-123			
trans-1,3-Dichloropropene	57.2	5.0	ug/kg	50.0		114	81-131			
Trichloroethene	58.9	5.0	ug/kg	50.0		118	82-118			
Trichlorofluoromethane	53.1	5.0	ug/kg	50.0		106	72-129			
Vinyl chloride	56.1	5.0	ug/kg	50.0		112	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4	*45.4*		*ug/kg*	*50.0*		*91*	*78-140*			
4-Bromofluorobenzene	*48.2*		*ug/kg*	*50.0*		*96*	*85-116*			
Dibromofluoromethane	*48.6*		*ug/kg*	*50.0*		*97*	*84-120*			
Toluene-d8	*48.3*		*ug/kg*	*50.0*		*97*	*82-120*			
Matrix Spike (W7I0387-MS1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	2560	250	ug/kg	2500	ND	102	50-150			
1,1,1-Trichloroethane	2500	250	ug/kg	2500	ND	100	50-150			
1,1,2,2-Tetrachloroethane	2590	250	ug/kg	2500	ND	104	50-150			
1,1,2-Trichloroethane	2780	250	ug/kg	2500	ND	111	50-150			
1,1-Dichloroethane	2460	250	ug/kg	2500	ND	98	50-150			

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Matrix Spike (W7I0387-MS1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
1,1-Dichloroethene	2460	250	ug/kg	2500	ND	98	38-139			
1,1-Dichloropropene	2630	250	ug/kg	2500	ND	105	50-150			
1,2,3-Trichlorobenzene	2640	250	ug/kg	2500	ND	105	50-150			
1,2,3-Trichloropropane	2510	250	ug/kg	2500	ND	101	50-150			
1,2,4-Trichlorobenzene	2690	250	ug/kg	2500	ND	108	50-150			
1,2,4-Trimethylbenzene	2690	250	ug/kg	2500	ND	108	50-150			
1,2-Dibromo-3-chloropropane	2610	250	ug/kg	2500	ND	104	50-150			
1,2-Dibromoethane (EDB)	2830	250	ug/kg	2500	ND	113	50-150			
1,2-Dichloroethane	2550	250	ug/kg	2500	ND	102	50-150			
1,2-Dichloropropane	2670	250	ug/kg	2500	ND	107	50-150			
1,3,5-Trimethylbenzene	2680	250	ug/kg	2500	ND	107	50-150			
1,3-Dichloropropane	2850	250	ug/kg	2500	ND	114	50-150			
2,2-Dichloropropane	2640	250	ug/kg	2500	ND	105	50-150			
2-Butanone	3000	250	ug/kg	2500	ND	120	50-150			
2-Chloroethyl vinyl ether	4200	250	ug/kg	2500	ND	168	50-150			Q-08
2-Chlorotoluene	2680	250	ug/kg	2500	ND	107	50-150			
2-Hexanone	3070	250	ug/kg	2500	ND	123	50-150			
4-Chlorotoluene	2720	250	ug/kg	2500	ND	109	50-150			
4-Methyl-2-pentanone	2960	250	ug/kg	2500	ND	118	50-150			
Acetone	2210	250	ug/kg	2500	507	68	50-150			
Acrolein	2150	250	ug/kg	2500	ND	86	50-150			
Acrylonitrile	2890	250	ug/kg	2500	ND	116	50-150			
Benzene	2560	250	ug/kg	2500	ND	103	30-134			
Bromobenzene	2600	250	ug/kg	2500	ND	104	50-150			
Bromochloromethane	2440	250	ug/kg	2500	ND	98	50-150			
Bromodichloromethane	2630	250	ug/kg	2500	ND	105	50-150			
Bromoform	2680	250	ug/kg	2500	ND	107	50-150			
Bromomethane	2070	250	ug/kg	2500	285	71	50-150			
Carbon tetrachloride	2420	250	ug/kg	2500	ND	97	50-150			
Chlorobenzene	2550	250	ug/kg	2500	ND	102	3-135			
Chloroethane	248	250	ug/kg	2500	ND	10	50-150			MS-05
Chloroform	2500	250	ug/kg	2500	ND	100	50-150			
Chloromethane	2590	250	ug/kg	2500	ND	104	50-150			
cis-1,2-Dichloroethene	2570	250	ug/kg	2500	ND	103	50-150			
cis-1,3-Dichloropropene	2910	250	ug/kg	2500	ND	116	50-150			
Dibromochloromethane	2840	250	ug/kg	2500	ND	114	50-150			
Dibromomethane	2650	250	ug/kg	2500	ND	106	50-150			

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Matrix Spike (W7I0387-MS1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
Dichlorodifluoromethane (Freon 12)	2510	250	ug/kg	2500	ND	100	50-150			
Ethylbenzene	2650	250	ug/kg	2500	ND	106	50-150			
Hexachlorobutadiene	2500	250	ug/kg	2500	ND	100	50-150			
Isopropylbenzene	2740	250	ug/kg	2500	ND	109	50-150			
m,p-Xylene	2740	250	ug/kg	2500	ND	110	50-150			
m-Dichlorobenzene	2520	250	ug/kg	2500	ND	101	50-150			
Methyl tert-butyl ether (MTBE)	2590	250	ug/kg	2500	ND	103	50-150			
Methylene chloride	2420	250	ug/kg	2500	ND	97	50-150			
Naphthalene	3000	250	ug/kg	2500	ND	120	50-150			
n-Butylbenzene	2740	250	ug/kg	2500	ND	110	50-150			
n-Propylbenzene	2680	250	ug/kg	2500	ND	107	50-150			
o-Dichlorobenzene	2570	250	ug/kg	2500	ND	103	50-150			
o-Xylene	2830	250	ug/kg	2500	ND	113	50-150			
p-Dichlorobenzene	2590	250	ug/kg	2500	ND	103	50-150			
p-Isopropyltoluene	2750	250	ug/kg	2500	ND	110	50-150			
sec-Butylbenzene	2710	250	ug/kg	2500	ND	108	50-150			
Styrene	2810	250	ug/kg	2500	ND	112	50-150			
tert-Butylbenzene	2730	250	ug/kg	2500	ND	109	50-150			
Tetrachloroethene	2650	250	ug/kg	2500	ND	106	50-150			
Toluene	2690	250	ug/kg	2500	ND	108	11-140			
trans-1,2-Dichloroethene	2460	250	ug/kg	2500	ND	98	50-150			
trans-1,3-Dichloropropene	2660	250	ug/kg	2500	ND	107	50-150			
Trichloroethene	2560	250	ug/kg	2500	ND	102	10-144			
Trichlorofluoromethane	293	250	ug/kg	2500	ND	12	50-150			MS-05
Vinyl chloride	2250	250	ug/kg	2500	ND	90	50-150			
Surrogate(s)										
1,2-Dichloroethane-d4	*52.9*		*ug/kg*	*50.0*		*106*	*78-140*			
4-Bromofluorobenzene	*52.6*		*ug/kg*	*50.0*		*105*	*85-116*			
Dibromofluoromethane	*48.9*		*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8	*52.6*		*ug/kg*	*50.0*		*105*	*82-120*			
Matrix Spike Dup (W7I0387-MSD1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	2500	250	ug/kg	2500	ND	100	50-150	2	25	
1,1,1-Trichloroethane	2490	250	ug/kg	2500	ND	99	50-150	0.7	25	
1,1,2,2-Tetrachloroethane	2550	250	ug/kg	2500	ND	102	50-150	2	25	
1,1,2-Trichloroethane	2760	250	ug/kg	2500	ND	110	50-150	0.5	25	
1,1-Dichloroethane	2460	250	ug/kg	2500	ND	98	50-150	0.02	25	
1,1-Dichloroethene	2190	250	ug/kg	2500	ND	87	38-139	12	25	

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Matrix Spike Dup (W7I0387-MSD1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
1,1-Dichloropropene	2600	250	ug/kg	2500	ND	104	50-150	1	25	
1,2,3-Trichlorobenzene	2510	250	ug/kg	2500	ND	100	50-150	5	25	
1,2,3-Trichloropropane	2530	250	ug/kg	2500	ND	101	50-150	0.5	25	
1,2,4-Trichlorobenzene	2580	250	ug/kg	2500	ND	103	50-150	4	25	
1,2,4-Trimethylbenzene	2670	250	ug/kg	2500	ND	107	50-150	0.6	25	
1,2-Dibromo-3-chloropropane	2420	250	ug/kg	2500	ND	97	50-150	8	25	
1,2-Dibromoethane (EDB)	2800	250	ug/kg	2500	ND	112	50-150	0.8	25	
1,2-Dichloroethane	2470	250	ug/kg	2500	ND	99	50-150	3	25	
1,2-Dichloropropane	2580	250	ug/kg	2500	ND	103	50-150	4	25	
1,3,5-Trimethylbenzene	2640	250	ug/kg	2500	ND	106	50-150	1	25	
1,3-Dichloropropane	2830	250	ug/kg	2500	ND	113	50-150	0.9	25	
2,2-Dichloropropane	2590	250	ug/kg	2500	ND	104	50-150	2	25	
2-Butanone	2750	250	ug/kg	2500	ND	110	50-150	9	25	
2-Chloroethyl vinyl ether	4030	250	ug/kg	2500	ND	161	50-150	4	25	Q-08
2-Chlorotoluene	2610	250	ug/kg	2500	ND	104	50-150	3	25	
2-Hexanone	2970	250	ug/kg	2500	ND	119	50-150	3	25	
4-Chlorotoluene	2690	250	ug/kg	2500	ND	108	50-150	1	25	
4-Methyl-2-pentanone	2840	250	ug/kg	2500	ND	114	50-150	4	25	
Acetone	2280	250	ug/kg	2500	507	71	50-150	3	25	
Acrolein	2050	250	ug/kg	2500	ND	82	50-150	5	25	
Acrylonitrile	2730	250	ug/kg	2500	ND	109	50-150	6	25	
Benzene	2530	250	ug/kg	2500	ND	101	30-134	1	25	
Bromobenzene	2570	250	ug/kg	2500	ND	103	50-150	1	25	
Bromochloromethane	2320	250	ug/kg	2500	ND	93	50-150	5	25	
Bromodichloromethane	2560	250	ug/kg	2500	ND	102	50-150	3	25	
Bromoform	2620	250	ug/kg	2500	ND	105	50-150	2	25	
Bromomethane	2290	250	ug/kg	2500	285	80	50-150	10	25	
Carbon tetrachloride	2410	250	ug/kg	2500	ND	96	50-150	0.7	25	
Chlorobenzene	2450	250	ug/kg	2500	ND	98	3-135	4	25	
Chloroethane	240	250	ug/kg	2500	ND	10	50-150	200	25	MS-05
Chloroform	2440	250	ug/kg	2500	ND	98	50-150	2	25	
Chloromethane	2600	250	ug/kg	2500	ND	104	50-150	0.4	25	
cis-1,2-Dichloroethene	2520	250	ug/kg	2500	ND	101	50-150	2	25	
cis-1,3-Dichloropropene	2770	250	ug/kg	2500	ND	111	50-150	5	25	
Dibromochloromethane	2870	250	ug/kg	2500	ND	115	50-150	0.7	25	
Dibromomethane	2570	250	ug/kg	2500	ND	103	50-150	3	25	
Dichlorodifluoromethane (Freon 12)	2580	250	ug/kg	2500	ND	103	50-150	3	25	

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Bakersfield, CA 93301

Project Number: Cawelo Water District Orchard+Vineyard Sampling

Project Manager: Robert Hartsock

Reported: 10/23/2017 15:32

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Matrix Spike Dup (W7I0387-MSD1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
Ethylbenzene	2530	250	ug/kg	2500	ND	101	50-150	4	25	
Hexachlorobutadiene	2410	250	ug/kg	2500	ND	96	50-150	4	25	
Isopropylbenzene	2700	250	ug/kg	2500	ND	108	50-150	1	25	
m,p-Xylene	2660	250	ug/kg	2500	ND	106	50-150	3	25	
m-Dichlorobenzene	2510	250	ug/kg	2500	ND	100	50-150	0.4	25	
Methyl tert-butyl ether (MTBE)	2490	250	ug/kg	2500	ND	100	50-150	4	25	
Methylene chloride	2390	250	ug/kg	2500	ND	96	50-150	1	25	
Naphthalene	2770	250	ug/kg	2500	ND	111	50-150	8	25	
n-Butylbenzene	2680	250	ug/kg	2500	ND	107	50-150	2	25	
n-Propylbenzene	2660	250	ug/kg	2500	ND	106	50-150	1	25	
o-Dichlorobenzene	2510	250	ug/kg	2500	ND	101	50-150	2	25	
o-Xylene	2740	250	ug/kg	2500	ND	110	50-150	3	25	
p-Dichlorobenzene	2560	250	ug/kg	2500	ND	103	50-150	0.9	25	
p-Isopropyltoluene	2730	250	ug/kg	2500	ND	109	50-150	0.7	25	
sec-Butylbenzene	2710	250	ug/kg	2500	ND	108	50-150	0.1	25	
Styrene	2730	250	ug/kg	2500	ND	109	50-150	3	25	
tert-Butylbenzene	2730	250	ug/kg	2500	ND	109	50-150	0.1	25	
Tetrachloroethene	2610	250	ug/kg	2500	ND	104	50-150	2	25	
Toluene	2680	250	ug/kg	2500	ND	107	11-140	0.7	25	
trans-1,2-Dichloroethene	2440	250	ug/kg	2500	ND	97	50-150	1	25	
trans-1,3-Dichloropropene	2610	250	ug/kg	2500	ND	104	50-150	2	25	
Trichloroethene	2500	250	ug/kg	2500	ND	100	10-144	2	25	
Trichlorofluoromethane	550	250	ug/kg	2500	ND	22	50-150	200	25	MS-05
Vinyl chloride	2280	250	ug/kg	2500	ND	91	50-150	1	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*52.0*		*ug/kg*	*50.0*		*104*	*78-140*			
4-Bromofluorobenzene	*52.7*		*ug/kg*	*50.0*		*105*	*85-116*			
Dibromofluoromethane	*48.8*		*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8	*53.4*		*ug/kg*	*50.0*		*107*	*82-120*			

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Project Number: Cawelo Water District Orchard+Vineyard Sampling

Project Manager: Robert Hartsock

Reported: 10/23/2017 15:32

Notes and Definitions

Item	Definition
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	7H10101	**Report Date:**	10/23/2017
		Received Date:	8/10/2017
Project:	McMurtrey, Hartsock & Worth	**Turnaround Time:**	Normal
		Phones:	(661) 322-4417
		Fax:	-
Attn:	Robert Hartsock	**P.O. #:**	
Client:	Law Offices of McMurtrey, Hartsock & Worth 2001 22nd Street, Suite 100 Bakersfield, CA 93301	**Billing Code:**	

DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Robert Hartsock,

Enclosed are the results of analyses for samples received 8/10/17 with the Chain-of-Custody document. The samples were received in good condition, at 8.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Chris Samatmanakit
Project Manager

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported:
10/23/2017 15:59

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Alm18-20170809-0702	April Saceaux	7H10101-01	Solid	08/09/17 07:02	
Alm00-20170809-0840	April Saceaux	7H10101-02	Solid	08/09/17 08:40	
Alm16-20170809-0845	April Saceaux	7H10101-03	Solid	08/09/17 08:45	
Alm17-20170809-0908	April Saceaux	7H10101-04	Solid	08/09/17 09:08	
Alm15-20170809-0930	April Saceaux	7H10101-05	Solid	08/09/17 09:30	
Alm14-20170809-1105	April Saceaux	7H10101-06	Solid	08/09/17 11:05	
Alm12-20170809-1133	April Saceaux	7H10101-07	Solid	08/09/17 11:33	
Alm11-20170809-1200	April Saceaux	7H10101-08	Solid	08/09/17 12:00	
Alm13-20170809-1220	April Saceaux	7H10101-09	Solid	08/09/17 12:20	

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Sample Results

Sample: Alm18-20170809-0702 — Sampled: 08/09/17 7:02 by April Saceaux

7H10101-01 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 13:49	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 19:14	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 19:14	
Barium, Total	**0.88**	0.50	mg/kg	1	09/14/17 19:14	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 15:39	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 19:14	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 19:14	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 19:14	
Copper, Total	**9.7**	0.50	mg/kg	1	09/14/17 19:14	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 19:14	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 19:14	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 19:14	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 19:14	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 19:14	
Strontium, Total	**6.2**	0.50	mg/kg	1	09/14/17 19:14	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 19:14	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 19:14	
Zinc, Total	**30**	5.0	mg/kg	1	09/14/17 19:14	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0775	**Prepared:** 09/14/17 11:40				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.48	mg/kg	1	09/22/17 03:25	M-02
Carbazole	ND	0.48	mg/kg	1	09/22/17 03:25	M-02
Phenol	ND	0.48	mg/kg	1	09/22/17 03:25	M-02
Pyridine	ND	0.96	mg/kg	1	09/22/17 03:25	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*38%*	*Conc: 1.79*	*32-103*		*09/22/17 03:25*	*M-02*
2-Fluorobiphenyl	*42%*	*Conc: 1.01*	*36-107*		*09/22/17 03:25*	*M-02*
2-Fluorophenol	*23%*	*Conc: 1.08*	*33-119*		*09/22/17 03:25*	*M-02, S-GC*
Nitrobenzene-d5	*36%*	*Conc: 0.870*	*36-114*		*09/22/17 03:25*	*M-02*
Phenol-d5	*37%*	*Conc: 1.79*	*40-118*		*09/22/17 03:25*	*M-02, S-GC*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/22/17 03:25*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I0773	**Prepared:** 09/14/17 11:27				**Analyst:** etn
1-Methylnaphthalene	ND	72	ug/kg	1	09/20/17 06:06	M-02
2-Methylnaphthalene	ND	72	ug/kg	1	09/20/17 06:06	M-02

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Reported: 10/23/2017 15:59

Sample Results

(Continued)

Sample: Alm18-20170809-0702 — Sampled: 08/09/17 7:02 by April Saceaux

7H10101-01 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Acenaphthylene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Anthracene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Benzo (a) anthracene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Benzo (a) pyrene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Benzo (b) fluoranthene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Benzo (g,h,i) perylene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Benzo (k) fluoranthene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Chrysene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Dibenzo (a,h) anthracene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Fluoranthene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Fluorene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Indeno (1,2,3-cd) pyrene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Naphthalene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Phenanthrene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Pyrene	ND	72	ug/kg	1	09/20/17 06:06	M-02
Surrogate(s)						
2-Fluorobiphenyl	*53%*	*Conc: 1270*	*0.1-109*		*09/20/17 06:06*	*M-02*
Nitrobenzene-d5	*47%*	*Conc: 1120*	*0.1-107*		*09/20/17 06:06*	*M-02*
Terphenyl-d14	*2%*	*Conc: 48.0*	*28-128*		*09/20/17 06:06*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0387	**Prepared:** 09/08/17 09:48				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 22:08	M-04

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Project Manager: Robert Hartsock

Reported: 10/23/2017 15:59

Sample Results

(Continued)

Sample: Alm18-20170809-0702
7H10101-01 (Solid)

Sampled: 08/09/17 7:02 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 22:08	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 22:08	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 22:08	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Naphthalene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04

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Reported: 10/23/2017 15:59

Sample Results

(Continued)

Sample: Alm18-20170809-0702 — Sampled: 08/09/17 7:02 by April Saceaux

7H10101-01 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
n-Propylbenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
o-Xylene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Styrene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Toluene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Trichloroethene	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/08/17 22:08	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*94%*	*Conc: 225*	*78-140*		*09/08/17 22:08*	*M-04*
4-Bromofluorobenzene	*95%*	*Conc: 227*	*85-116*		*09/08/17 22:08*	*M-04*
Dibromofluoromethane	*95%*	*Conc: 227*	*84-120*		*09/08/17 22:08*	*M-04*
Toluene-d8	*107%*	*Conc: 257*	*82-120*		*09/08/17 22:08*	*M-04*

Sample: Alm18-20170809-0702 — Sampled: 08/09/17 7:02 by April Saceaux

7H10101-01RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	500	mg/kg	20	10/04/17 09:44	M-02, M-04

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Sample Results

(Continued)

Sample: Alm00-20170809-0840 — Sampled: 08/09/17 8:40 by April Saceaux

7H10101-02 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 13:52	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 19:50	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 19:50	
Barium, Total	**0.52**	0.50	mg/kg	1	09/14/17 19:50	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 15:49	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 19:50	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 19:50	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 19:50	
Copper, Total	**5.0**	0.50	mg/kg	1	09/14/17 19:50	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 19:50	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 19:50	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 19:50	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 19:50	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 19:50	
Strontium, Total	**3.0**	0.50	mg/kg	1	09/14/17 19:50	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 19:50	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 19:50	
Zinc, Total	**20**	5.0	mg/kg	1	09/14/17 19:50	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0775	**Prepared:** 09/14/17 11:40				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.46	mg/kg	1	09/22/17 03:56	M-02
Carbazole	ND	0.46	mg/kg	1	09/22/17 03:56	M-02
Phenol	ND	0.46	mg/kg	1	09/22/17 03:56	M-02
Pyridine	ND	0.93	mg/kg	1	09/22/17 03:56	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*23%*	*Conc: 1.08*	*32-103*		*09/22/17 03:56*	*S-04, M-02*
2-Fluorobiphenyl	*32%*	*Conc: 0.743*	*36-107*		*09/22/17 03:56*	*M-02, S-04*
2-Fluorophenol	*29%*	*Conc: 1.34*	*33-119*		*09/22/17 03:56*	*M-02, S-04*
Nitrobenzene-d5	*27%*	*Conc: 0.620*	*36-114*		*09/22/17 03:56*	*S-04, M-02*
Phenol-d5	*36%*	*Conc: 1.69*	*40-118*		*09/22/17 03:56*	*M-02, S-04*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/22/17 03:56*	*M-02, S-04*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I0773	**Prepared:** 09/14/17 11:27				**Analyst:** etn
1-Methylnaphthalene	ND	69	ug/kg	1	09/20/17 06:40	M-02
2-Methylnaphthalene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Acenaphthene	ND	69	ug/kg	1	09/20/17 06:40	M-02

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Sample Results

(Continued)

Sample: Alm00-20170809-0840 — Sampled: 08/09/17 8:40 by April Saceaux

7H10101-02 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthylene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Anthracene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Benzo (a) anthracene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Benzo (a) pyrene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Benzo (b) fluoranthene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Benzo (g,h,i) perylene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Benzo (k) fluoranthene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Chrysene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Dibenzo (a,h) anthracene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Fluoranthene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Fluorene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Indeno (1,2,3-cd) pyrene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Naphthalene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Phenanthrene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Pyrene	ND	69	ug/kg	1	09/20/17 06:40	M-02
Surrogate(s)						
2-Fluorobiphenyl	*48%*	*Conc: 1110*	*0.1-109*		*09/20/17 06:40*	*M-02*
Nitrobenzene-d5	*42%*	*Conc: 970*	*0.1-107*		*09/20/17 06:40*	*M-02*
Terphenyl-d14	*26%*	*Conc: 593*	*28-128*		*09/20/17 06:40*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0387	**Prepared:** 09/08/17 09:48				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04

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Sample Results

(Continued)

Sample: Alm00-20170809-0840
7H10101-02 (Solid)

Sampled: 08/09/17 8:40 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 22:39	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 22:39	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 22:39	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Naphthalene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04

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Sample Results

(Continued)

Sample: Alm00-20170809-0840 — Sampled: 08/09/17 8:40 by April Saceaux

7H10101-02 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
o-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
o-Xylene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Styrene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Toluene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Trichloroethene	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/08/17 22:39	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*99%*	*Conc: 233*	*78-140*		*09/08/17 22:39*	*M-04*
4-Bromofluorobenzene	*94%*	*Conc: 221*	*85-116*		*09/08/17 22:39*	*M-04*
Dibromofluoromethane	*98%*	*Conc: 231*	*84-120*		*09/08/17 22:39*	*M-04*
Toluene-d8	*108%*	*Conc: 255*	*82-120*		*09/08/17 22:39*	*M-04*

Sample: Alm00-20170809-0840 — Sampled: 08/09/17 8:40 by April Saceaux

7H10101-02RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	370	mg/kg	20	10/04/17 10:15	M-02, M-04

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Sample Results

(Continued)

Sample: Alm16-20170809-0845 — Sampled: 08/09/17 8:45 by April Saceaux

7H10101-03 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 13:55	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 19:57	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 19:57	
Barium, Total	**0.63**	0.50	mg/kg	1	09/14/17 19:57	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 15:51	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 19:57	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 19:57	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 19:57	
Copper, Total	**4.8**	0.50	mg/kg	1	09/14/17 19:57	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 19:57	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 19:57	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 19:57	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 19:57	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 19:57	
Strontium, Total	**3.8**	0.50	mg/kg	1	09/14/17 19:57	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 19:57	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 19:57	
Zinc, Total	**23**	5.0	mg/kg	1	09/14/17 19:57	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0775	**Prepared:** 09/14/17 11:40				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.42	mg/kg	1	09/22/17 04:27	M-02
Carbazole	ND	0.42	mg/kg	1	09/22/17 04:27	M-02
Phenol	ND	0.42	mg/kg	1	09/22/17 04:27	M-02
Pyridine	ND	0.84	mg/kg	1	09/22/17 04:27	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*19%*	*Conc: 0.800*	*32-103*		*09/22/17 04:27*	*M-02, S-04*
2-Fluorobiphenyl	*38%*	*Conc: 0.791*	*36-107*		*09/22/17 04:27*	*M-02*
2-Fluorophenol	*25%*	*Conc: 1.03*	*33-119*		*09/22/17 04:27*	*M-02, S-04*
Nitrobenzene-d5	*31%*	*Conc: 0.655*	*36-114*		*09/22/17 04:27*	*M-02, S-04*
Phenol-d5	*36%*	*Conc: 1.52*	*40-118*		*09/22/17 04:27*	*M-02, S-04*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/22/17 04:27*	*M-02, S-04*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I0773	**Prepared:** 09/14/17 11:27				**Analyst:** etn
1-Methylnaphthalene	ND	63	ug/kg	1	09/20/17 07:14	M-02
2-Methylnaphthalene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Acenaphthene	ND	63	ug/kg	1	09/20/17 07:14	M-02

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Sample Results

(Continued)

Sample: Alm16-20170809-0845 — Sampled: 08/09/17 8:45 by April Saceaux

7H10101-03 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthylene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Anthracene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Benzo (a) anthracene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Benzo (a) pyrene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Benzo (b) fluoranthene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Benzo (g,h,i) perylene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Benzo (k) fluoranthene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Chrysene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Dibenzo (a,h) anthracene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Fluoranthene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Fluorene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Indeno (1,2,3-cd) pyrene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Naphthalene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Phenanthrene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Pyrene	ND	63	ug/kg	1	09/20/17 07:14	M-02
Surrogate(s)						
2-Fluorobiphenyl	*53%*	*Conc: 1110*	*0.1-109*		*09/20/17 07:14*	*M-02*
Nitrobenzene-d5	*44%*	*Conc: 919*	*0.1-107*		*09/20/17 07:14*	*M-02*
Terphenyl-d14	*24%*	*Conc: 510*	*28-128*		*09/20/17 07:14*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0387	**Prepared:** 09/08/17 09:48				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm16-20170809-0845
7H10101-03 (Solid)

Sampled: 08/09/17 8:45 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 23:10	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 23:10	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 23:10	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Naphthalene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04

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Sample Results

(Continued)

Sample: Alm16-20170809-0845 — Sampled: 08/09/17 8:45 by April Saceaux

7H10101-03 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
o-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
o-Xylene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Styrene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Toluene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Trichloroethene	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/08/17 23:10	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*102%*	*Conc: 242*	*78-140*		*09/08/17 23:10*	*M-04*
4-Bromofluorobenzene	*95%*	*Conc: 225*	*85-116*		*09/08/17 23:10*	*M-04*
Dibromofluoromethane	*99%*	*Conc: 236*	*84-120*		*09/08/17 23:10*	*M-04*
Toluene-d8	*107%*	*Conc: 255*	*82-120*		*09/08/17 23:10*	*M-04*

Sample: Alm16-20170809-0845 — Sampled: 08/09/17 8:45 by April Saceaux

7H10101-03RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	400	mg/kg	20	10/04/17 16:11	M-02, M-04

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm17-20170809-0908 — Sampled: 08/09/17 9:08 by April Saceaux

7H10101-04 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 13:58	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 20:05	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 20:05	
Barium, Total	**0.51**	0.50	mg/kg	1	09/14/17 20:05	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 15:54	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 20:05	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 20:05	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 20:05	
Copper, Total	**6.8**	0.50	mg/kg	1	09/14/17 20:05	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 20:05	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 20:05	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 20:05	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 20:05	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 20:05	
Strontium, Total	**3.3**	0.50	mg/kg	1	09/14/17 20:05	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 20:05	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 20:05	
Zinc, Total	**16**	5.0	mg/kg	1	09/14/17 20:05	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0775	**Prepared:** 09/14/17 11:40				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.49	mg/kg	1	09/22/17 04:58	M-02
Carbazole	ND	0.49	mg/kg	1	09/22/17 04:58	M-02
Phenol	ND	0.49	mg/kg	1	09/22/17 04:58	M-02
Pyridine	ND	0.98	mg/kg	1	09/22/17 04:58	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*19% Conc: 0.942*	*32-103*			*09/22/17 04:58*	*M-02, S-GC*
2-Fluorobiphenyl	*41% Conc: 1.01*	*36-107*			*09/22/17 04:58*	*M-02*
2-Fluorophenol	*43% Conc: 2.09*	*33-119*			*09/22/17 04:58*	*M-02*
Nitrobenzene-d5	*38% Conc: 0.921*	*36-114*			*09/22/17 04:58*	*M-02*
Phenol-d5	*51% Conc: 2.51*	*40-118*			*09/22/17 04:58*	*M-02*
Terphenyl-d14	*% Conc: 0.00*	*40-121*			*09/22/17 04:58*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I0773	**Prepared:** 09/14/17 11:27				**Analyst:** etn
1-Methylnaphthalene	ND	74	ug/kg	1	09/20/17 07:47	M-02
2-Methylnaphthalene	ND	74	ug/kg	1	09/20/17 07:47	M-02

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Sample Results

(Continued)

Sample: Alm17-20170809-0908 — Sampled: 08/09/17 9:08 by April Saceaux

7H10101-04 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Acenaphthylene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Anthracene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Benzo (a) anthracene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Benzo (a) pyrene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Benzo (b) fluoranthene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Benzo (g,h,i) perylene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Benzo (k) fluoranthene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Chrysene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Dibenzo (a,h) anthracene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Fluoranthene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Fluorene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Indeno (1,2,3-cd) pyrene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Naphthalene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Phenanthrene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Pyrene	ND	74	ug/kg	1	09/20/17 07:47	M-02
Surrogate(s)						
2-Fluorobiphenyl	*58%*	*Conc: 1420*	*0.1-109*		*09/20/17 07:47*	*M-02*
Nitrobenzene-d5	*53%*	*Conc: 1290*	*0.1-107*		*09/20/17 07:47*	*M-02*
Terphenyl-d14	*23%*	*Conc: 568*	*28-128*		*09/20/17 07:47*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0387	**Prepared:** 09/08/17 09:48				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,2-Dichloroethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 23:41	M-04

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Sample Results

(Continued)

Sample: Alm17-20170809-0908
7H10101-04 (Solid)

Sampled: 08/09/17 9:08 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
2-Butanone	ND	1200	ug/kg	50	09/08/17 23:41	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/08/17 23:41	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
2-Hexanone	ND	1200	ug/kg	50	09/08/17 23:41	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Acetone	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Acrolein	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Benzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Bromobenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Bromoform	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Bromomethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Chloroethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Chloroform	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Chloromethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Dibromomethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Methylene chloride	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Naphthalene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04

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Sample Results

(Continued)

Sample: Alm17-20170809-0908 — Sampled: 08/09/17 9:08 by April Saceaux

7H10101-04 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
n-Propylbenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
o-Xylene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Styrene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Toluene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Trichloroethene	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/08/17 23:41	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*97%*	*Conc: 238*	*78-140*		*09/08/17 23:41*	*M-04*
4-Bromofluorobenzene	*96%*	*Conc: 235*	*85-116*		*09/08/17 23:41*	*M-04*
Dibromofluoromethane	*95%*	*Conc: 235*	*84-120*		*09/08/17 23:41*	*M-04*
Toluene-d8	*109%*	*Conc: 269*	*82-120*		*09/08/17 23:41*	*M-04*

Sample: Alm17-20170809-0908 — Sampled: 08/09/17 9:08 by April Saceaux

7H10101-04RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	350	mg/kg	20	10/04/17 16:42	M-02, M-04

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 10/23/2017 15:59

Sample Results

(Continued)

Sample: Alm15-20170809-0930 — Sampled: 08/09/17 9:30 by April Saceaux

7H10101-05 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 14:01	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 20:12	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 20:12	
Barium, Total	**0.57**	0.50	mg/kg	1	09/14/17 20:12	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 15:56	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 20:12	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 20:12	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 20:12	
Copper, Total	**8.3**	0.50	mg/kg	1	09/14/17 20:12	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 20:12	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 20:12	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 20:12	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 20:12	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 20:12	
Strontium, Total	**3.9**	0.50	mg/kg	1	09/14/17 20:12	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 20:12	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 20:12	
Zinc, Total	**22**	5.0	mg/kg	1	09/14/17 20:12	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0775	**Prepared:** 09/14/17 11:40				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	09/22/17 05:29	M-02
Carbazole	ND	0.45	mg/kg	1	09/22/17 05:29	M-02
Phenol	ND	0.45	mg/kg	1	09/22/17 05:29	M-02
Pyridine	ND	0.90	mg/kg	1	09/22/17 05:29	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*17%*	*Conc: 0.764*	*32-103*		*09/22/17 05:29*	*M-02, S-GC*
2-Fluorobiphenyl	*37%*	*Conc: 0.831*	*36-107*		*09/22/17 05:29*	*M-02*
2-Fluorophenol	*37%*	*Conc: 1.68*	*33-119*		*09/22/17 05:29*	*M-02*
Nitrobenzene-d5	*33%*	*Conc: 0.751*	*36-114*		*09/22/17 05:29*	*M-02, S-GC*
Phenol-d5	*45%*	*Conc: 2.04*	*40-118*		*09/22/17 05:29*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/22/17 05:29*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I0773	**Prepared:** 09/14/17 11:27				**Analyst:** etn
1-Methylnaphthalene	ND	68	ug/kg	1	09/20/17 08:21	M-02
2-Methylnaphthalene	ND	68	ug/kg	1	09/20/17 08:21	M-02

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Sample Results

(Continued)

Sample: Alm15-20170809-0930 — Sampled: 08/09/17 9:30 by April Saceaux

7H10101-05 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Acenaphthylene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Anthracene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Benzo (a) anthracene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Benzo (a) pyrene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Benzo (b) fluoranthene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Benzo (g,h,i) perylene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Benzo (k) fluoranthene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Chrysene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Dibenzo (a,h) anthracene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Fluoranthene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Fluorene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Indeno (1,2,3-cd) pyrene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Naphthalene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Phenanthrene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Pyrene	ND	68	ug/kg	1	09/20/17 08:21	M-02
Surrogate(s)						
2-Fluorobiphenyl	*52%*	*Conc: 1170*	*0.1-109*		*09/20/17 08:21*	*M-02*
Nitrobenzene-d5	*47%*	*Conc: 1060*	*0.1-107*		*09/20/17 08:21*	*M-02*
Terphenyl-d14	*16%*	*Conc: 367*	*28-128*		*09/20/17 08:21*	*M-02, S-GC*

Volatile Organic Compounds by P&T and GC/MS

Method: EPA 8260B **Batch ID:** W7I0387 **Prepared:** 09/08/17 09:48 **Analyst:** rhr

1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,2-Dichloroethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/09/17 00:11	M-04

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Sample Results

(Continued)

Sample: Alm15-20170809-0930
7H10101-05 (Solid)

Sampled: 08/09/17 9:30 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
2-Butanone	ND	1200	ug/kg	50	09/09/17 00:11	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/09/17 00:11	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
2-Hexanone	ND	1200	ug/kg	50	09/09/17 00:11	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Acetone	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Acrolein	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Benzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Bromobenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Bromoform	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Bromomethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Chloroethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Chloroform	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Chloromethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Dibromomethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Methylene chloride	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Naphthalene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04

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Sample Results

(Continued)

Sample: Alm15-20170809-0930 — Sampled: 08/09/17 9:30 by April Saceaux

7H10101-05 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
n-Propylbenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
o-Xylene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Styrene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Toluene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Trichloroethene	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/09/17 00:11	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*96%*	*Conc: 236*	*78-140*		*09/09/17 00:11*	*M-04*
4-Bromofluorobenzene	*95%*	*Conc: 232*	*85-116*		*09/09/17 00:11*	*M-04*
Dibromofluoromethane	*98%*	*Conc: 240*	*84-120*		*09/09/17 00:11*	*M-04*
Toluene-d8	*109%*	*Conc: 267*	*82-120*		*09/09/17 00:11*	*M-04*

Sample: Alm15-20170809-0930 — Sampled: 08/09/17 9:30 by April Saceaux

7H10101-05RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	430	mg/kg	20	10/04/17 17:13	M-02, M-04

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Sample Results

(Continued)

Sample: Alm14-20170809-1105 — Sampled: 08/09/17 11:05 by April Saceaux

7H10101-06 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 14:04	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Barium, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 15:59	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 20:19	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 20:19	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Copper, Total	**5.8**	0.50	mg/kg	1	09/14/17 20:19	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 20:19	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Strontium, Total	**4.6**	0.50	mg/kg	1	09/14/17 20:19	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 20:19	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 20:19	
Zinc, Total	**15**	5.0	mg/kg	1	09/14/17 20:19	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I0775	**Prepared:** 09/14/17 11:40				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.48	mg/kg	1	09/22/17 06:00	M-02
Carbazole	ND	0.48	mg/kg	1	09/22/17 06:00	M-02
Phenol	ND	0.48	mg/kg	1	09/22/17 06:00	M-02
Pyridine	ND	0.96	mg/kg	1	09/22/17 06:00	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*7%*	*Conc: 0.341*	*32-103*		*09/22/17 06:00*	*M-02, S-04*
2-Fluorobiphenyl	*35%*	*Conc: 0.827*	*36-107*		*09/22/17 06:00*	*M-02, S-04*
2-Fluorophenol	*28%*	*Conc: 1.32*	*33-119*		*09/22/17 06:00*	*M-02, S-04*
Nitrobenzene-d5	*36%*	*Conc: 0.856*	*36-114*		*09/22/17 06:00*	*M-02*
Phenol-d5	*40%*	*Conc: 1.90*	*40-118*		*09/22/17 06:00*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/22/17 06:00*	*M-02, S-04*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I0773	**Prepared:** 09/14/17 11:27				**Analyst:** etn
1-Methylnaphthalene	ND	72	ug/kg	1	09/20/17 08:55	M-02
2-Methylnaphthalene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Acenaphthene	ND	72	ug/kg	1	09/20/17 08:55	M-02

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Sample Results

(Continued)

Sample: Alm14-20170809-1105 — Sampled: 08/09/17 11:05 by April Saceaux

7H10101-06 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthylene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Anthracene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Benzo (a) anthracene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Benzo (a) pyrene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Benzo (b) fluoranthene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Benzo (g,h,i) perylene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Benzo (k) fluoranthene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Chrysene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Dibenzo (a,h) anthracene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Fluoranthene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Fluorene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Indeno (1,2,3-cd) pyrene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Naphthalene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Phenanthrene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Pyrene	ND	72	ug/kg	1	09/20/17 08:55	M-02
Surrogate(s)						
2-Fluorobiphenyl	*47%*	*Conc: 1120*	*0.1-109*		*09/20/17 08:55*	*M-02*
Nitrobenzene-d5	*49%*	*Conc: 1170*	*0.1-107*		*09/20/17 08:55*	*M-02*
Terphenyl-d14	*15%*	*Conc: 363*	*28-128*		*09/20/17 08:55*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0387	**Prepared:** 09/08/17 09:48				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,1,1-Trichloroethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,1,2,2-Tetrachloroethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,1,2-Trichloroethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,1-Dichloroethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,1-Dichloroethene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,1-Dichloropropene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,2,3-Trichlorobenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,2,3-Trichloropropane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,2,4-Trichlorobenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,2,4-Trimethylbenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,2-Dibromo-3-chloropropane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,2-Dibromoethane (EDB)	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,2-Dichloroethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,2-Dichloropropane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
1,3,5-Trimethylbenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04

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Sample Results

(Continued)

Sample: Alm14-20170809-1105
7H10101-06 (Solid)

Sampled: 08/09/17 11:05 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3-Dichloropropane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
2,2-Dichloropropane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
2-Butanone	ND	1100	ug/kg	50	09/09/17 02:45	M-04
2-Chloroethyl vinyl ether	ND	1100	ug/kg	50	09/09/17 02:45	M-04
2-Chlorotoluene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
2-Hexanone	ND	1100	ug/kg	50	09/09/17 02:45	M-04
4-Chlorotoluene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
4-Methyl-2-pentanone	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Acetone	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Acrolein	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Acrylonitrile	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Benzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Bromobenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Bromochloromethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Bromodichloromethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Bromoform	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Bromomethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Carbon tetrachloride	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Chlorobenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Chloroethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Chloroform	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Chloromethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
cis-1,2-Dichloroethene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
cis-1,3-Dichloropropene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Dibromochloromethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Dibromomethane	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Dichlorodifluoromethane (Freon 12)	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Ethylbenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Hexachlorobutadiene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Isopropylbenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
m,p-Xylene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
m-Dichlorobenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Methyl tert-butyl ether (MTBE)	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Methylene chloride	ND	1100	ug/kg	50	09/09/17 02:45	M-04
Naphthalene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
n-Butylbenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04
n-Propylbenzene	ND	1100	ug/kg	50	09/09/17 02:45	M-04

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Sample Results

(Continued)

Sample: Alm14-20170809-1105 — Sampled: 08/09/17 11:05 by April Saceaux

7H10101-06 (Solid) (Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
o-Dichlorobenzene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
o-Xylene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
p-Dichlorobenzene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
p-Isopropyltoluene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
sec-Butylbenzene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
Styrene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
tert-Butylbenzene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
Tetrachloroethene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
Toluene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
trans-1,2-Dichloroethene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
trans-1,3-Dichloropropene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
Trichloroethene	ND		1100	ug/kg	50	09/09/17 02:45	M-04
Trichlorofluoromethane	ND		1100	ug/kg	50	09/09/17 02:45	M-04
Vinyl chloride	ND		1100	ug/kg	50	09/09/17 02:45	M-04
Surrogate(s)							
1,2-Dichloroethane-d4	*94%*	*Conc: 217*	*78-140*			*09/09/17 02:45*	*M-04*
4-Bromofluorobenzene	*93%*	*Conc: 215*	*85-116*			*09/09/17 02:45*	*M-04*
Dibromofluoromethane	*95%*	*Conc: 220*	*84-120*			*09/09/17 02:45*	*M-04*
Toluene-d8	*108%*	*Conc: 248*	*82-120*			*09/09/17 02:45*	*M-04*

Sample: Alm14-20170809-1105 — Sampled: 08/09/17 11:05 by April Saceaux

7H10101-06RE1 (Solid)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID							
Method: EPA 8015D	**Batch ID:** W7I0962		**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND		440	mg/kg	20	10/04/17 17:44	M-02, M-04

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Sample Results

(Continued)

Sample: Alm12-20170809-1133 — Sampled: 08/09/17 11:33 by April Saceaux

7H10101-07 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 14:07	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 20:27	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 20:27	
Barium, Total	**1.4**	0.50	mg/kg	1	09/14/17 20:27	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 16:01	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 20:27	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 20:27	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 20:27	
Copper, Total	**7.6**	0.50	mg/kg	1	09/14/17 20:27	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 20:27	
Molybdenum, Total	**0.50**	0.50	mg/kg	1	09/14/17 20:27	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 20:27	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 20:27	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 20:27	
Strontium, Total	**8.9**	0.50	mg/kg	1	09/14/17 20:27	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 20:27	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 20:27	
Zinc, Total	**15**	5.0	mg/kg	1	09/14/17 20:27	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.42	mg/kg	1	09/28/17 21:17	M-02
Carbazole	ND	0.42	mg/kg	1	09/28/17 21:17	M-02
Phenol	ND	0.42	mg/kg	1	09/28/17 21:17	M-02
Pyridine	ND	0.85	mg/kg	1	09/28/17 21:17	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*67%*	*Conc: 2.83*	*32-103*		*09/28/17 21:17*	*M-02*
2-Fluorobiphenyl	*46%*	*Conc: 0.964*	*36-107*		*09/28/17 21:17*	*M-02*
2-Fluorophenol	*37%*	*Conc: 1.58*	*33-119*		*09/28/17 21:17*	*M-02*
Nitrobenzene-d5	*31%*	*Conc: 0.649*	*36-114*		*09/28/17 21:17*	*M-02, S-GC*
Phenol-d5	*46%*	*Conc: 1.94*	*40-118*		*09/28/17 21:17*	*M-02*
Terphenyl-d14	*10%*	*Conc: 0.215*	*40-121*		*09/28/17 21:17*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I1085	**Prepared:** 09/19/17 15:17				**Analyst:** etn
1-Methylnaphthalene	ND	64	ug/kg	1	09/27/17 00:20	M-02
2-Methylnaphthalene	ND	64	ug/kg	1	09/27/17 00:20	M-02

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Sample Results

(Continued)

Sample: Alm12-20170809-1133 — Sampled: 08/09/17 11:33 by April Saceaux

7H10101-07 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Acenaphthylene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Anthracene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Benzo (a) anthracene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Benzo (a) pyrene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Benzo (b) fluoranthene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Benzo (g,h,i) perylene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Benzo (k) fluoranthene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Chrysene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Dibenzo (a,h) anthracene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Fluoranthene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Fluorene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Indeno (1,2,3-cd) pyrene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Naphthalene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Phenanthrene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Pyrene	ND	64	ug/kg	1	09/27/17 00:20	M-02
Surrogate(s)						
2-Fluorobiphenyl	*61%*	*Conc: 1290*	*0.1-109*		*09/27/17 00:20*	*M-02*
Nitrobenzene-d5	*46%*	*Conc: 985*	*0.1-107*		*09/27/17 00:20*	*M-02*
Terphenyl-d14	*43%*	*Conc: 916*	*28-128*		*09/27/17 00:20*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0387	**Prepared:** 09/08/17 09:48				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,2-Dichloroethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04

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Sample Results

(Continued)

Sample: Alm12-20170809-1133
7H10101-07 (Solid)

Sampled: 08/09/17 11:33 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3-Dichloropropane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
2-Butanone	ND	1200	ug/kg	50	09/09/17 03:15	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/09/17 03:15	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
2-Hexanone	ND	1200	ug/kg	50	09/09/17 03:15	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Acetone	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Acrolein	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Benzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Bromobenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Bromoform	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Bromomethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Chloroethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Chloroform	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Chloromethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Dibromomethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Methylene chloride	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Naphthalene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04

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Sample Results

(Continued)

Sample: Alm12-20170809-1133 — Sampled: 08/09/17 11:33 by April Saceaux

7H10101-07 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
o-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
o-Xylene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Styrene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Toluene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Trichloroethene	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/09/17 03:15	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*97%*	*Conc: 232*	*78-140*		*09/09/17 03:15*	*M-04*
4-Bromofluorobenzene	*95%*	*Conc: 229*	*85-116*		*09/09/17 03:15*	*M-04*
Dibromofluoromethane	*98%*	*Conc: 235*	*84-120*		*09/09/17 03:15*	*M-04*
Toluene-d8	*108%*	*Conc: 260*	*82-120*		*09/09/17 03:15*	*M-04*

Sample: Alm12-20170809-1133 — Sampled: 08/09/17 11:33 by April Saceaux

7H10101-07RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	400	mg/kg	20	10/04/17 18:15	M-02, M-04

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Sample Results

(Continued)

Sample: Alm11-20170809-1200 — Sampled: 08/09/17 12:00 by April Saceaux

7H10101-08 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 14:10	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 20:34	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 20:34	
Barium, Total	**1.4**	0.50	mg/kg	1	09/14/17 20:34	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 16:04	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 20:34	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 20:34	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 20:34	
Copper, Total	**6.2**	0.50	mg/kg	1	09/14/17 20:34	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 20:34	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 20:34	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 20:34	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 20:34	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 20:34	
Strontium, Total	**9.6**	0.50	mg/kg	1	09/14/17 20:34	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 20:34	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 20:34	
Zinc, Total	**14**	5.0	mg/kg	1	09/14/17 20:34	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.48	mg/kg	1	09/28/17 21:47	M-02
Carbazole	ND	0.48	mg/kg	1	09/28/17 21:47	M-02
Phenol	ND	0.48	mg/kg	1	09/28/17 21:47	M-02
Pyridine	ND	0.96	mg/kg	1	09/28/17 21:47	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*60% Conc: 2.86*	*32-103*			*09/28/17 21:47*	*M-02*
2-Fluorobiphenyl	*42% Conc: 1.01*	*36-107*			*09/28/17 21:47*	*M-02*
2-Fluorophenol	*32% Conc: 1.55*	*33-119*			*09/28/17 21:47*	*M-02, S-GC*
Nitrobenzene-d5	*32% Conc: 0.766*	*36-114*			*09/28/17 21:47*	*M-02, S-GC*
Phenol-d5	*43% Conc: 2.06*	*40-118*			*09/28/17 21:47*	*M-02*
Terphenyl-d14	*5% Conc: 0.124*	*40-121*			*09/28/17 21:47*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I1085	**Prepared:** 09/19/17 15:17				**Analyst:** etn
1-Methylnaphthalene	ND	72	ug/kg	1	09/27/17 00:54	M-02
2-Methylnaphthalene	ND	72	ug/kg	1	09/27/17 00:54	M-02

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Sample Results

(Continued)

Sample: Alm11-20170809-1200 — Sampled: 08/09/17 12:00 by April Saceaux

7H10101-08 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Acenaphthylene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Anthracene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Benzo (a) anthracene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Benzo (a) pyrene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Benzo (b) fluoranthene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Benzo (g,h,i) perylene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Benzo (k) fluoranthene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Chrysene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Dibenzo (a,h) anthracene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Fluoranthene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Fluorene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Indeno (1,2,3-cd) pyrene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Naphthalene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Phenanthrene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Pyrene	ND	72	ug/kg	1	09/27/17 00:54	M-02
Surrogate(s)						
2-Fluorobiphenyl	*56%*	*Conc: 1330*	*0.1-109*		*09/27/17 00:54*	*M-02*
Nitrobenzene-d5	*47%*	*Conc: 1130*	*0.1-107*		*09/27/17 00:54*	*M-02*
Terphenyl-d14	*40%*	*Conc: 959*	*28-128*		*09/27/17 00:54*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0387	**Prepared:** 09/08/17 09:48				**Analyst:** rhr
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,2-Dichloroethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04

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Sample Results

(Continued)

Sample: Alm11-20170809-1200
7H10101-08 (Solid)

Sampled: 08/09/17 12:00 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3-Dichloropropane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
2-Butanone	ND	1200	ug/kg	50	09/09/17 03:46	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/09/17 03:46	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
2-Hexanone	ND	1200	ug/kg	50	09/09/17 03:46	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Acetone	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Acrolein	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Benzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Bromobenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Bromoform	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Bromomethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Chloroethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Chloroform	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Chloromethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Dibromomethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Methylene chloride	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Naphthalene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04

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Sample Results

(Continued)

Sample: Alm11-20170809-1200 — Sampled: 08/09/17 12:00 by April Saceaux

7H10101-08 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
o-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
o-Xylene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Styrene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Toluene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Trichloroethene	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/09/17 03:46	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*96%*	*Conc: 228*	*78-140*		*09/09/17 03:46*	*M-04*
4-Bromofluorobenzene	*93%*	*Conc: 221*	*85-116*		*09/09/17 03:46*	*M-04*
Dibromofluoromethane	*96%*	*Conc: 228*	*84-120*		*09/09/17 03:46*	*M-04*
Toluene-d8	*107%*	*Conc: 255*	*82-120*		*09/09/17 03:46*	*M-04*

Sample: Alm11-20170809-1200 — Sampled: 08/09/17 12:00 by April Saceaux

7H10101-08RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	380	mg/kg	20	10/04/17 18:46	M-02, M-04

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Sample Results

(Continued)

Sample: Alm13-20170809-1220 — Sampled: 08/09/17 12:20 by April Saceaux

7H10101-09 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0918	**Prepared:** 08/15/17 14:51				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/11/17 14:13	
Method: EPA 6020B	**Batch ID:** W7H0924	**Prepared:** 08/15/17 15:00				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/14/17 20:41	
Arsenic, Total	ND	0.50	mg/kg	1	09/14/17 20:41	
Barium, Total	**1.9**	0.50	mg/kg	1	09/14/17 20:41	
Beryllium, Total	ND	0.60	mg/kg	2	09/15/17 16:07	M-04
Cadmium, Total	ND	0.20	mg/kg	1	09/14/17 20:41	
Chromium, Total	ND	1.0	mg/kg	1	09/14/17 20:41	
Cobalt, Total	ND	0.50	mg/kg	1	09/14/17 20:41	
Copper, Total	**6.6**	0.50	mg/kg	1	09/14/17 20:41	
Lead, Total	ND	0.50	mg/kg	1	09/14/17 20:41	
Molybdenum, Total	ND	0.50	mg/kg	1	09/14/17 20:41	
Nickel, Total	ND	1.0	mg/kg	1	09/14/17 20:41	
Selenium, Total	ND	0.50	mg/kg	1	09/14/17 20:41	
Silver, Total	ND	0.50	mg/kg	1	09/14/17 20:41	
Strontium, Total	**9.5**	0.50	mg/kg	1	09/14/17 20:41	
Thallium, Total	ND	0.50	mg/kg	1	09/14/17 20:41	
Vanadium, Total	ND	1.0	mg/kg	1	09/14/17 20:41	
Zinc, Total	**20**	5.0	mg/kg	1	09/14/17 20:41	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.47	mg/kg	1	09/28/17 22:17	M-02
Carbazole	ND	0.47	mg/kg	1	09/28/17 22:17	M-02
Phenol	ND	0.47	mg/kg	1	09/28/17 22:17	M-02
Pyridine	ND	0.95	mg/kg	1	09/28/17 22:17	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*61%*	*Conc: 2.87*	*32-103*		*09/28/17 22:17*	*M-02*
2-Fluorobiphenyl	*49%*	*Conc: 1.16*	*36-107*		*09/28/17 22:17*	*M-02*
2-Fluorophenol	*28%*	*Conc: 1.33*	*33-119*		*09/28/17 22:17*	*M-02, S-GC*
Nitrobenzene-d5	*28%*	*Conc: 0.661*	*36-114*		*09/28/17 22:17*	*M-02, S-GC*
Phenol-d5	*40%*	*Conc: 1.92*	*40-118*		*09/28/17 22:17*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/28/17 22:17*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I1085	**Prepared:** 09/19/17 15:17				**Analyst:** etn
1-Methylnaphthalene	ND	71	ug/kg	1	09/27/17 01:27	M-02
2-Methylnaphthalene	ND	71	ug/kg	1	09/27/17 01:27	M-02

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm13-20170809-1220 — Sampled: 08/09/17 12:20 by April Saceaux

7H10101-09 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Acenaphthene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Acenaphthylene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Anthracene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Benzo (a) anthracene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Benzo (a) pyrene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Benzo (b) fluoranthene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Benzo (g,h,i) perylene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Benzo (k) fluoranthene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Chrysene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Dibenzo (a,h) anthracene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Fluoranthene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Fluorene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Indeno (1,2,3-cd) pyrene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Naphthalene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Phenanthrene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Pyrene	ND	71	ug/kg	1	09/27/17 01:27	M-02
Surrogate(s)						
2-Fluorobiphenyl	*61%*	*Conc: 1440*	*0.1-109*		*09/27/17 01:27*	*M-02*
Nitrobenzene-d5	*43%*	*Conc: 1020*	*0.1-107*		*09/27/17 01:27*	*M-02*
Terphenyl-d14	*4%*	*Conc: 84.3*	*28-128*		*09/27/17 01:27*	*M-02, S-GC*

Volatile Organic Compounds by P&T and GC/MS

Method: EPA 8260B **Batch ID:** W7I0387 **Prepared:** 09/08/17 09:48 **Analyst:** rhr

1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,2-Dichloroethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/09/17 04:17	M-04

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Sample Results

(Continued)

Sample: Alm13-20170809-1220
7H10101-09 (Solid)

Sampled: 08/09/17 12:20 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
2-Butanone	ND	1200	ug/kg	50	09/09/17 04:17	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/09/17 04:17	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
2-Hexanone	ND	1200	ug/kg	50	09/09/17 04:17	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Acetone	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Acrolein	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Benzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Bromobenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Bromoform	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Bromomethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Chloroethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Chloroform	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Chloromethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Dibromomethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Methylene chloride	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Naphthalene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm13-20170809-1220 — Sampled: 08/09/17 12:20 by April Saceaux

7H10101-09 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
n-Propylbenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
o-Xylene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Styrene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Toluene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Trichloroethene	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/09/17 04:17	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*100%*	*Conc: 243*	*78-140*		*09/09/17 04:17*	*M-04*
4-Bromofluorobenzene	*92%*	*Conc: 222*	*85-116*		*09/09/17 04:17*	*M-04*
Dibromofluoromethane	*98%*	*Conc: 237*	*84-120*		*09/09/17 04:17*	*M-04*
Toluene-d8	*106%*	*Conc: 258*	*82-120*		*09/09/17 04:17*	*M-04*

Sample: Alm13-20170809-1220 — Sampled: 08/09/17 12:20 by April Saceaux

7H10101-09RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	410	mg/kg	20	10/04/17 19:17	M-02, M-04

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Quality Control Results

Alcohols by GC/FID

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0962 - EPA 8015D										
Blank (W7I0962-BLK1)				**Prepared: 09/18/17**	**Analyzed: 10/03/17**					
Methanol	ND	10	mg/kg							
LCS (W7I0962-BS1)				**Prepared: 09/18/17**	**Analyzed: 10/03/17**					
Methanol	31.8	10	mg/kg	50.0		64	54-139			
Matrix Spike (W7I0962-MS1)	**Source: 7H10101-02RE1**			**Prepared: 09/18/17**	**Analyzed: 10/03/17**					
Methanol	1340	410	mg/kg	2050	ND	65	16-166			M-02, M-04
Matrix Spike Dup (W7I0962-MSD1)	**Source: 7H10101-02RE1**			**Prepared: 09/18/17**	**Analyzed: 10/04/17**					
Methanol	1480	410	mg/kg	2030	ND	73	16-166	10	25	M-02, M-04

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7H0918 - EPA 6010B										
Blank (W7H0918-BLK1)				**Prepared: 08/15/17**	**Analyzed: 09/11/17**					
Lithium, Total	ND	5.0	mg/kg							
LCS (W7H0918-BS1)				**Prepared: 08/15/17**	**Analyzed: 09/11/17**					
Lithium, Total	45.6	5.0	mg/kg	50.0		91	80-120			
MRL Check (W7H0918-MRL1)				**Prepared: 08/15/17**	**Analyzed: 09/11/17**					
Lithium, Total	49.2	5.0	mg/kg	50.0		98	80-120			
MRL Check (W7H0918-MRL2)				**Prepared: 08/15/17**	**Analyzed: 09/11/17**					
Lithium, Total	51.2	5.0	mg/kg	50.0		102	80-120			
MRL Check (W7H0918-MRL3)				**Prepared: 08/15/17**	**Analyzed: 09/11/17**					
Lithium, Total	53.8	5.0	mg/kg	50.0		108	80-120			
MRL Check (W7H0918-MRL4)				**Prepared: 08/15/17**	**Analyzed: 09/11/17**					
Lithium, Total	51.4	5.0	mg/kg	50.0		103	80-120			
Matrix Spike (W7H0918-MS1)	**Source: 7H10098-01**			**Prepared: 08/15/17**	**Analyzed: 09/11/17**					
Lithium, Total	48.8	5.0	mg/kg	49.2	ND	99	75-125			
Matrix Spike Dup (W7H0918-MSD1)	**Source: 7H10098-01**			**Prepared: 08/15/17**	**Analyzed: 09/11/17**					
Lithium, Total	50.9	5.0	mg/kg	49.1	ND	104	75-125	4	20	
Batch: W7H0924 - EPA 6020B										
Blank (W7H0924-BLK1)				**Prepared: 08/15/17**	**Analyzed: 09/14/17**					
Antimony, Total	ND	0.50	mg/kg							
Arsenic, Total	ND	0.50	mg/kg							
Barium, Total	ND	0.50	mg/kg							
Beryllium, Total	ND	0.30	mg/kg							
Cadmium, Total	ND	0.20	mg/kg							
Chromium, Total	ND	1.0	mg/kg							
Cobalt, Total	ND	0.50	mg/kg							
Copper, Total	ND	0.50	mg/kg							

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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7H0924 - EPA 6020B (Continued)										
Blank (W7H0924-BLK1)				**Prepared: 08/15/17 Analyzed: 09/14/17**						
Lead, Total	ND	0.50	mg/kg							
Molybdenum, Total	ND	0.50	mg/kg							
Nickel, Total	ND	1.0	mg/kg							
Selenium, Total	ND	0.50	mg/kg							
Silver, Total	ND	0.50	mg/kg							
Strontium, Total	ND	0.50	mg/kg							
Thallium, Total	ND	0.50	mg/kg							
Vanadium, Total	ND	1.0	mg/kg							
Zinc, Total	ND	5.0	mg/kg							
LCS (W7H0924-BS1)				**Prepared: 08/15/17 Analyzed: 09/14/17**						
Antimony, Total	51.7	0.50	mg/kg	50.0		103	80-120			
Arsenic, Total	50.6	0.50	mg/kg	50.0		101	80-120			
Barium, Total	50.8	0.50	mg/kg	50.0		102	80-120			
Beryllium, Total	46.7	0.30	mg/kg	50.0		93	80-120			
Cadmium, Total	50.7	0.20	mg/kg	50.0		101	80-120			
Chromium, Total	49.0	1.0	mg/kg	50.0		98	80-120			
Cobalt, Total	50.3	0.50	mg/kg	50.0		101	80-120			
Copper, Total	50.7	0.50	mg/kg	50.0		101	80-120			
Lead, Total	48.8	0.50	mg/kg	50.0		98	80-120			
Molybdenum, Total	46.6	0.50	mg/kg	50.0		93	80-120			
Nickel, Total	50.1	1.0	mg/kg	50.0		100	80-120			
Selenium, Total	52.8	0.50	mg/kg	50.0		106	80-120			
Silver, Total	50.2	0.50	mg/kg	50.0		100	80-120			
Strontium, Total	101	0.50	mg/kg	100		101	80-120			
Thallium, Total	51.7	0.50	mg/kg	50.0		103	80-120			
Vanadium, Total	48.4	1.0	mg/kg	50.0		97	80-120			
Zinc, Total	53.0	5.0	mg/kg	50.0		106	80-120			
Matrix Spike (W7H0924-MS1)	**Source: 7H10098-01**			**Prepared: 08/15/17 Analyzed: 09/14/17**						
Antimony, Total	51.7	0.50	mg/kg	49.9	ND	104	75-125			
Arsenic, Total	50.5	0.50	mg/kg	49.9	ND	101	75-125			
Barium, Total	50.1	0.50	mg/kg	49.9	ND	100	75-125			
Beryllium, Total	48.7	0.60	mg/kg	49.9	ND	98	75-125			
Cadmium, Total	51.0	0.20	mg/kg	49.9	ND	102	75-125			
Chromium, Total	48.8	1.0	mg/kg	49.9	ND	98	75-125			
Cobalt, Total	49.8	0.50	mg/kg	49.9	ND	100	75-125			
Copper, Total	54.4	0.50	mg/kg	49.9	3.44	102	75-125			
Lead, Total	48.8	0.50	mg/kg	49.9	ND	98	75-125			

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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7H0924 - EPA 6020B (Continued)										
Matrix Spike (W7H0924-MS1)	**Source: 7H10098-01**			**Prepared: 08/15/17 Analyzed: 09/14/17**						
Molybdenum, Total	46.6	0.50	mg/kg	49.9	ND	93	75-125			
Nickel, Total	50.3	1.0	mg/kg	49.9	ND	101	75-125			
Selenium, Total	52.5	0.50	mg/kg	49.9	ND	105	75-125			
Silver, Total	50.2	0.50	mg/kg	49.9	ND	100	75-125			
Strontium, Total	101	0.50	mg/kg	100	0.394	101	75-125			
Thallium, Total	52.3	0.50	mg/kg	49.9	ND	105	75-125			
Vanadium, Total	47.9	1.0	mg/kg	49.9	ND	96	75-125			
Zinc, Total	54.3	5.0	mg/kg	49.9	ND	109	75-125			
Matrix Spike Dup (W7H0924-MSD1)	**Source: 7H10098-01**			**Prepared: 08/15/17 Analyzed: 09/14/17**						
Antimony, Total	50.6	0.50	mg/kg	49.2	ND	103	75-125	2	20	
Arsenic, Total	49.5	0.50	mg/kg	49.2	ND	101	75-125	2	20	
Barium, Total	49.1	0.50	mg/kg	49.2	ND	100	75-125	2	20	
Beryllium, Total	48.3	0.60	mg/kg	49.2	ND	98	75-125	0.9	20	
Cadmium, Total	50.5	0.20	mg/kg	49.2	ND	103	75-125	1	20	
Chromium, Total	48.1	1.0	mg/kg	49.2	ND	98	75-125	1	20	
Cobalt, Total	49.2	0.50	mg/kg	49.2	ND	100	75-125	1	20	
Copper, Total	54.5	0.50	mg/kg	49.2	3.44	104	75-125	0.3	20	
Lead, Total	47.4	0.50	mg/kg	49.2	ND	96	75-125	3	20	
Molybdenum, Total	45.2	0.50	mg/kg	49.2	ND	92	75-125	3	20	
Nickel, Total	49.6	1.0	mg/kg	49.2	ND	101	75-125	1	20	
Selenium, Total	51.4	0.50	mg/kg	49.2	ND	105	75-125	2	20	
Silver, Total	48.9	0.50	mg/kg	49.2	ND	99	75-125	3	20	
Strontium, Total	98.4	0.50	mg/kg	98.5	0.394	99	75-125	3	20	
Thallium, Total	50.1	0.50	mg/kg	49.2	ND	102	75-125	4	20	
Vanadium, Total	47.7	1.0	mg/kg	49.2	ND	97	75-125	0.3	20	
Zinc, Total	54.3	5.0	mg/kg	49.2	ND	110	75-125	0.1	20	

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0775 - EPA 8270C										
Blank (W7I0775-BLK1)				**Prepared: 09/14/17 Analyzed: 09/21/17**						
Bis(2-ethylhexyl)phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surrogate(s)										
2,4,6-Tribromophenol	*0.371*		*mg/kg*	*0.500*		*74*	*32-103*			
2-Fluorobiphenyl	*0.134*		*mg/kg*	*0.250*		*54*	*36-107*			
2-Fluorophenol	*0.297*		*mg/kg*	*0.500*		*59*	*33-119*			
Nitrobenzene-d5	*0.122*		*mg/kg*	*0.250*		*49*	*36-114*			
Phenol-d5	*0.310*		*mg/kg*	*0.500*		*62*	*40-118*			
Terphenyl-d14	*0.164*		*mg/kg*	*0.250*		*66*	*40-121*			
LCS (W7I0775-BS1)				**Prepared: 09/14/17 Analyzed: 09/21/17**						
1,2,4-Trichlorobenzene	0.699	0.050	mg/kg	1.25		56	32-111			
1,4-Dichlorobenzene	0.633	0.050	mg/kg	1.25		51	30-111			
2,4-Dinitrotoluene	0.961	0.050	mg/kg	1.25		77	49-119			
2-Chlorophenol	0.627	0.050	mg/kg	1.25		50	31-111			
4-Chloro-3-methylphenol	0.762	0.050	mg/kg	1.25		61	27-138			
4-Nitrophenol	0.943	0.050	mg/kg	1.25		75	35-109			
Acenaphthene	0.824	0.050	mg/kg	1.25		66	44-118			
N-Nitrosodi-n-propylamine	0.682	0.050	mg/kg	1.25		55	31-128			
Pentachlorophenol	1.10	0.050	mg/kg	1.25		88	11-114			
Phenol	0.636	0.050	mg/kg	1.25		51	33-106			
Pyrene	1.06	0.050	mg/kg	1.25		84	56-127			
Surrogate(s)										
2,4,6-Tribromophenol	*2.22*		*mg/kg*	*2.50*		*89*	*32-103*			
2-Fluorobiphenyl	*0.741*		*mg/kg*	*1.25*		*59*	*36-107*			
2-Fluorophenol	*1.38*		*mg/kg*	*2.50*		*55*	*33-119*			
Nitrobenzene-d5	*0.665*		*mg/kg*	*1.25*		*53*	*36-114*			
Phenol-d5	*1.50*		*mg/kg*	*2.50*		*60*	*40-118*			
Terphenyl-d14	*1.08*		*mg/kg*	*1.25*		*87*	*40-121*			
Matrix Spike (W7I0775-MS1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/22/17**						
1,2,4-Trichlorobenzene	7.86	0.47	mg/kg	11.7	ND	67	29-108			M-02
1,4-Dichlorobenzene	6.12	0.47	mg/kg	11.7	ND	52	37-96			M-02
2,4-Dinitrotoluene	7.87	0.47	mg/kg	11.7	ND	67	45-106			M-02
2-Chlorophenol	6.75	0.47	mg/kg	11.7	ND	57	35-97			M-02
4-Chloro-3-methylphenol	7.79	0.47	mg/kg	11.7	ND	66	38-114			M-02
4-Nitrophenol	7.72	0.47	mg/kg	11.7	ND	66	28-115			M-02
Acenaphthene	8.01	0.47	mg/kg	11.7	ND	68	49-103			M-02

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0775 - EPA 8270C (Continued)										
Matrix Spike (W7I0775-MS1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/22/17**						
N-Nitrosodi-n-propylamine	7.69	0.47	mg/kg	11.7	ND	66	31-120			M-02
Pentachlorophenol	10.5	0.47	mg/kg	11.7	0.209	88	23-114			M-02
Phenol	6.83	0.47	mg/kg	11.7	ND	58	31-102			M-02
Pyrene	4.26	0.47	mg/kg	11.7	ND	36	47-122			M-02
Surrogate(s)										
2,4,6-Tribromophenol	*17.3*		*mg/kg*	*23.5*		*74*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.86*		*mg/kg*	*11.7*		*67*	*36-107*			*M-02*
2-Fluorophenol	*14.9*		*mg/kg*	*23.5*		*64*	*33-119*			*M-02*
Nitrobenzene-d5	*7.56*		*mg/kg*	*11.7*		*64*	*36-114*			*M-02*
Phenol-d5	*16.1*		*mg/kg*	*23.5*		*69*	*40-118*			*M-02*
Terphenyl-d14	*3.80*		*mg/kg*	*11.7*		*32*	*40-121*			*M-02, S-GC*
Matrix Spike Dup (W7I0775-MSD1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/22/17**						
1,2,4-Trichlorobenzene	7.02	0.47	mg/kg	11.6	ND	60	29-108	11	30	M-02
1,4-Dichlorobenzene	5.33	0.47	mg/kg	11.6	ND	46	37-96	14	30	M-02
2,4-Dinitrotoluene	7.68	0.47	mg/kg	11.6	ND	66	45-106	2	30	M-02
2-Chlorophenol	6.15	0.47	mg/kg	11.6	ND	53	35-97	9	30	M-02
4-Chloro-3-methylphenol	8.17	0.47	mg/kg	11.6	ND	70	38-114	5	30	M-02
4-Nitrophenol	6.94	0.47	mg/kg	11.6	ND	60	28-115	11	30	M-02
Acenaphthene	7.88	0.47	mg/kg	11.6	ND	68	49-103	2	30	M-02
N-Nitrosodi-n-propylamine	7.03	0.47	mg/kg	11.6	ND	60	31-120	9	30	M-02
Pentachlorophenol	9.06	0.47	mg/kg	11.6	0.209	76	23-114	15	30	M-02
Phenol	6.37	0.47	mg/kg	11.6	ND	55	31-102	7	30	M-02
Pyrene	3.45	0.47	mg/kg	11.6	ND	30	47-122	21	30	M-02
Surrogate(s)										
2,4,6-Tribromophenol	*15.4*		*mg/kg*	*23.3*		*66*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.44*		*mg/kg*	*11.6*		*64*	*36-107*			*M-02*
2-Fluorophenol	*11.3*		*mg/kg*	*23.3*		*49*	*33-119*			*M-02*
Nitrobenzene-d5	*6.65*		*mg/kg*	*11.6*		*57*	*36-114*			*M-02*
Phenol-d5	*14.9*		*mg/kg*	*23.3*		*64*	*40-118*			*M-02*
Terphenyl-d14	*2.92*		*mg/kg*	*11.6*		*25*	*40-121*			*M-02, S-GC*
Batch: W7I1084 - EPA 8270C										
Blank (W7I1084-BLK1)				**Prepared: 09/19/17 Analyzed: 09/28/17**						
Bis(2-ethylhexyl)phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surrogate(s)										
2,4,6-Tribromophenol	*0.252*		*mg/kg*	*0.500*		*50*	*32-103*			

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1084 - EPA 8270C (Continued)										
Blank (W7I1084-BLK1)				**Prepared: 09/19/17 Analyzed: 09/28/17**						
Surrogate(s)										
2-Fluorobiphenyl		*0.150*	*mg/kg*	*0.250*		*60*	*36-107*			
2-Fluorophenol		*0.256*	*mg/kg*	*0.500*		*51*	*33-119*			
Nitrobenzene-d5		*0.177*	*mg/kg*	*0.250*		*71*	*36-114*			
Phenol-d5		*0.289*	*mg/kg*	*0.500*		*58*	*40-118*			
Terphenyl-d14		*0.172*	*mg/kg*	*0.250*		*69*	*40-121*			
LCS (W7I1084-BS1)				**Prepared: 09/19/17 Analyzed: 09/28/17**						
1,2,4-Trichlorobenzene	0.822	0.050	mg/kg	1.25		66	32-111			
1,4-Dichlorobenzene	0.690	0.050	mg/kg	1.25		55	30-111			
2,4-Dinitrotoluene	0.905	0.050	mg/kg	1.25		72	49-119			
2-Chlorophenol	0.670	0.050	mg/kg	1.25		54	31-111			
4-Chloro-3-methylphenol	0.888	0.050	mg/kg	1.25		71	27-138			
4-Nitrophenol	0.713	0.050	mg/kg	1.25		57	35-109			
Acenaphthene	0.956	0.050	mg/kg	1.25		76	44-118			
N-Nitrosodi-n-propylamine	0.678	0.050	mg/kg	1.25		54	31-128			
Pentachlorophenol	0.895	0.050	mg/kg	1.25		72	11-114			
Phenol	0.650	0.050	mg/kg	1.25		52	33-106			
Pyrene	1.12	0.050	mg/kg	1.25		89	56-127			
Surrogate(s)										
2,4,6-Tribromophenol		*2.28*	*mg/kg*	*2.50*		*91*	*32-103*			
2-Fluorobiphenyl		*0.960*	*mg/kg*	*1.25*		*77*	*36-107*			
2-Fluorophenol		*1.39*	*mg/kg*	*2.50*		*56*	*33-119*			
Nitrobenzene-d5		*0.665*	*mg/kg*	*1.25*		*53*	*36-114*			
Phenol-d5		*1.60*	*mg/kg*	*2.50*		*64*	*40-118*			
Terphenyl-d14		*1.10*	*mg/kg*	*1.25*		*88*	*40-121*			
Matrix Spike (W7I1084-MS1)	**Source: 7H10101-07**			**Prepared: 09/19/17 Analyzed: 09/28/17**						
1,2,4-Trichlorobenzene	5.34	0.47	mg/kg	11.8	ND	45	29-108			M-02
1,4-Dichlorobenzene	4.33	0.47	mg/kg	11.8	ND	37	37-96			M-02
2,4-Dinitrotoluene	5.76	0.47	mg/kg	11.8	ND	49	45-106			M-02
2-Chlorophenol	5.78	0.47	mg/kg	11.8	ND	49	35-97			M-02
4-Chloro-3-methylphenol	6.42	0.47	mg/kg	11.8	ND	54	38-114			M-02
4-Nitrophenol	6.56	0.47	mg/kg	11.8	ND	55	28-115			M-02
Acenaphthene	5.64	0.47	mg/kg	11.8	ND	48	49-103			M-02, MS-05
N-Nitrosodi-n-propylamine	5.31	0.47	mg/kg	11.8	ND	45	31-120			M-02
Pentachlorophenol	11.3	0.47	mg/kg	11.8	0.222	94	23-114			M-02
Phenol	5.78	0.47	mg/kg	11.8	ND	49	31-102			M-02
Pyrene	5.37	0.47	mg/kg	11.8	ND	45	47-122			M-02, MS-05
Surrogate(s)										

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Quality Control Results

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Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1084 - EPA 8270C (Continued)										
Matrix Spike (W7I1084-MS1)	**Source: 7H10101-07**			**Prepared: 09/19/17 Analyzed: 09/28/17**						
Surrogate(s)										
2,4,6-Tribromophenol	*20.3*		*mg/kg*	*23.7*		*86*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.99*		*mg/kg*	*11.8*		*67*	*36-107*			*M-02*
2-Fluorophenol	*13.4*		*mg/kg*	*23.7*		*57*	*33-119*			*M-02*
Nitrobenzene-d5	*6.29*		*mg/kg*	*11.8*		*53*	*36-114*			*M-02*
Phenol-d5	*14.9*		*mg/kg*	*23.7*		*63*	*40-118*			*M-02*
Terphenyl-d14	*6.66*		*mg/kg*	*11.8*		*56*	*40-121*			*M-02*
Matrix Spike Dup (W7I1084-MSD1)	**Source: 7H10101-07**			**Prepared: 09/19/17 Analyzed: 09/28/17**						
1,2,4-Trichlorobenzene	5.45	0.47	mg/kg	11.6	ND	47	29-108	2	30	M-02
1,4-Dichlorobenzene	4.55	0.47	mg/kg	11.6	ND	39	37-96	5	30	M-02
2,4-Dinitrotoluene	6.18	0.47	mg/kg	11.6	ND	53	45-106	7	30	M-02
2-Chlorophenol	5.88	0.47	mg/kg	11.6	ND	51	35-97	2	30	M-02
4-Chloro-3-methylphenol	6.58	0.47	mg/kg	11.6	ND	57	38-114	3	30	M-02
4-Nitrophenol	6.64	0.47	mg/kg	11.6	ND	57	28-115	1	30	M-02
Acenaphthene	6.14	0.47	mg/kg	11.6	ND	53	49-103	9	30	M-02
N-Nitrosodi-n-propylamine	5.51	0.47	mg/kg	11.6	ND	47	31-120	4	30	M-02
Pentachlorophenol	10.7	0.47	mg/kg	11.6	0.222	90	23-114	6	30	M-02
Phenol	5.81	0.47	mg/kg	11.6	ND	50	31-102	0.4	30	M-02
Pyrene	2.31	0.47	mg/kg	11.6	ND	20	47-122	80	30	MS-05, M-02
Surrogate(s)										
2,4,6-Tribromophenol	*18.9*		*mg/kg*	*23.3*		*81*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.39*		*mg/kg*	*11.6*		*64*	*36-107*			*M-02*
2-Fluorophenol	*12.9*		*mg/kg*	*23.3*		*56*	*33-119*			*M-02*
Nitrobenzene-d5	*5.94*		*mg/kg*	*11.6*		*51*	*36-114*			*M-02*
Phenol-d5	*14.4*		*mg/kg*	*23.3*		*62*	*40-118*			*M-02*
Terphenyl-d14	*4.09*		*mg/kg*	*11.6*		*35*	*40-121*			*M-02, S-GC*

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Quality Control Results

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Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0773 - EPA 8270C SIM										
Blank (W7I0773-BLK1)				**Prepared: 09/14/17 Analyzed: 09/19/17**						
1-Methylnaphthalene	ND	5.0	ug/kg							
2-Methylnaphthalene	ND	5.0	ug/kg							
Acenaphthene	ND	5.0	ug/kg							
Acenaphthylene	ND	5.0	ug/kg							
Anthracene	ND	5.0	ug/kg							
Benzo (a) anthracene	ND	5.0	ug/kg							
Benzo (a) pyrene	ND	5.0	ug/kg							
Benzo (b) fluoranthene	ND	5.0	ug/kg							
Benzo (g,h,i) perylene	ND	5.0	ug/kg							
Benzo (k) fluoranthene	ND	5.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo (a,h) anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno (1,2,3-cd) pyrene	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate(s)										
2-Fluorobiphenyl	*105*		*ug/kg*	*167*		*63*	*0.1-109*			
Nitrobenzene-d5	*99.1*		*ug/kg*	*167*		*59*	*0.1-107*			
Terphenyl-d14	*146*		*ug/kg*	*167*		*88*	*28-128*			
LCS (W7I0773-BS1)				**Prepared: 09/14/17 Analyzed: 09/19/17**						
Acenaphthene	240	5.0	ug/kg	333		72	27-103			
Acenaphthylene	249	5.0	ug/kg	333		75	29-112			
Anthracene	266	5.0	ug/kg	333		80	31-119			
Benzo (a) anthracene	306	5.0	ug/kg	333		92	26-132			
Benzo (a) pyrene	245	5.0	ug/kg	333		74	19-146			
Benzo (b) fluoranthene	263	5.0	ug/kg	333		79	40-120			
Benzo (g,h,i) perylene	156	5.0	ug/kg	333		47	18-135			
Benzo (k) fluoranthene	241	5.0	ug/kg	333		72	40-120			
Chrysene	259	5.0	ug/kg	333		78	40-120			
Dibenzo (a,h) anthracene	193	5.0	ug/kg	333		58	20-137			
Fluoranthene	297	5.0	ug/kg	333		89	33-123			
Fluorene	256	5.0	ug/kg	333		77	33-106			
Indeno (1,2,3-cd) pyrene	198	5.0	ug/kg	333		59	16-136			
Naphthalene	209	5.0	ug/kg	333		63	22-98			

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Quality Control Results

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0773 - EPA 8270C SIM (Continued)										
LCS (W7I0773-BS1)				**Prepared: 09/14/17 Analyzed: 09/19/17**						
Phenanthrene	270	5.0	ug/kg	333		81	32-110			
Pyrene	294	5.0	ug/kg	333		88	34-122			
Surrogate(s)										
2-Fluorobiphenyl		*97.4*	*ug/kg*	*167*		*58*	*0.1-109*			
Nitrobenzene-d5		*88.8*	*ug/kg*	*167*		*53*	*0.1-107*			
Terphenyl-d14		*145*	*ug/kg*	*167*		*87*	*28-128*			
Matrix Spike (W7I0773-MS1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/20/17**						
Acenaphthene	3310	72	ug/kg	4830	ND	69	5-115			M-02
Acenaphthylene	3430	72	ug/kg	4830	ND	71	8-111			M-02
Anthracene	3480	72	ug/kg	4830	ND	72	3-132			M-02
Benzo (a) anthracene	1500	72	ug/kg	4830	ND	31	14-125			M-02
Benzo (a) pyrene	1470	72	ug/kg	4830	ND	30	2-138			M-02
Benzo (b) fluoranthene	1750	72	ug/kg	4830	ND	36	20-150			M-02
Benzo (g,h,i) perylene	1760	72	ug/kg	4830	18.9	36	9-129			M-02
Benzo (k) fluoranthene	1590	72	ug/kg	4830	ND	33	20-150			M-02
Chrysene	3220	72	ug/kg	4830	ND	67	20-150			M-02
Dibenzo (a,h) anthracene	2010	72	ug/kg	4830	28.7	41	10-144			M-02
Fluoranthene	2250	72	ug/kg	4830	ND	47	11-127			M-02
Fluorene	3460	72	ug/kg	4830	ND	72	4-125			M-02
Indeno (1,2,3-cd) pyrene	2100	72	ug/kg	4830	26.0	43	3-137			M-02
Naphthalene	2730	72	ug/kg	4830	ND	57	0.1-117			M-02
Phenanthrene	3540	72	ug/kg	4830	ND	73	10-122			M-02
Pyrene	1810	72	ug/kg	4830	ND	37	10-128			M-02
Surrogate(s)										
2-Fluorobiphenyl		*1380*	*ug/kg*	*2420*		*57*	*0.1-109*			*M-02*
Nitrobenzene-d5		*1180*	*ug/kg*	*2420*		*49*	*0.1-107*			*M-02*
Terphenyl-d14		*1100*	*ug/kg*	*2420*		*46*	*28-128*			*M-02*
Matrix Spike Dup (W7I0773-MSD1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/20/17**						
Acenaphthene	3360	74	ug/kg	4900	ND	68	5-115	1	30	M-02
Acenaphthylene	3480	74	ug/kg	4900	ND	71	8-111	2	30	M-02
Anthracene	3550	74	ug/kg	4900	ND	72	3-132	2	30	M-02
Benzo (a) anthracene	1120	74	ug/kg	4900	ND	23	14-125	29	30	M-02
Benzo (a) pyrene	1440	74	ug/kg	4900	ND	29	2-138	2	30	M-02
Benzo (b) fluoranthene	1710	74	ug/kg	4900	ND	35	20-150	2	30	M-02
Benzo (g,h,i) perylene	1970	74	ug/kg	4900	18.9	40	9-129	11	30	M-02
Benzo (k) fluoranthene	1540	74	ug/kg	4900	ND	31	20-150	3	30	M-02
Chrysene	3230	74	ug/kg	4900	ND	66	20-150	0.4	30	M-02
Dibenzo (a,h) anthracene	2190	74	ug/kg	4900	28.7	44	10-144	9	30	M-02

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Quality Control Results

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0773 - EPA 8270C SIM (Continued)										
Matrix Spike Dup (W7I0773-MSD1)	**Source: 7H09100-08**			**Prepared: 09/14/17 Analyzed: 09/20/17**						
Fluoranthene	2120	74	ug/kg	4900	ND	43	11-127	6	30	M-02
Fluorene	3420	74	ug/kg	4900	ND	70	4-125	1	30	M-02
Indeno (1,2,3-cd) pyrene	2250	74	ug/kg	4900	26.0	45	3-137	7	30	M-02
Naphthalene	2760	74	ug/kg	4900	ND	56	0.1-117	1	30	M-02
Phenanthrene	3590	74	ug/kg	4900	ND	73	10-122	1	30	M-02
Pyrene	1440	74	ug/kg	4900	ND	29	10-128	23	30	M-02
Surrogate(s)										
2-Fluorobiphenyl		*1440*	*ug/kg*	*2450*		*59*	*0.1-109*			*M-02*
Nitrobenzene-d5		*1110*	*ug/kg*	*2450*		*45*	*0.1-107*			*M-02*
Terphenyl-d14		*1100*	*ug/kg*	*2450*		*45*	*28-128*			*M-02*
Batch: W7I1085 - EPA 8270C SIM										
Blank (W7I1085-BLK1)				**Prepared: 09/19/17 Analyzed: 09/26/17**						
1-Methylnaphthalene	ND	5.0	ug/kg							
2-Methylnaphthalene	ND	5.0	ug/kg							
Acenaphthene	ND	5.0	ug/kg							
Acenaphthylene	ND	5.0	ug/kg							
Anthracene	ND	5.0	ug/kg							
Benzo (a) anthracene	ND	5.0	ug/kg							
Benzo (a) pyrene	ND	5.0	ug/kg							
Benzo (b) fluoranthene	ND	5.0	ug/kg							
Benzo (g,h,i) perylene	ND	5.0	ug/kg							
Benzo (k) fluoranthene	ND	5.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo (a,h) anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno (1,2,3-cd) pyrene	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate(s)										
2-Fluorobiphenyl		*122*	*ug/kg*	*167*		*73*	*0.1-109*			
Nitrobenzene-d5		*94.6*	*ug/kg*	*167*		*57*	*0.1-107*			
Terphenyl-d14		*163*	*ug/kg*	*167*		*98*	*28-128*			
LCS (W7I1085-BS1)				**Prepared: 09/19/17 Analyzed: 09/26/17**						
Acenaphthene	286	5.0	ug/kg	333		86	27-103			
Acenaphthylene	308	5.0	ug/kg	333		93	29-112			
Anthracene	296	5.0	ug/kg	333		89	31-119			

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1085 - EPA 8270C SIM (Continued)										
LCS (W7I1085-BS1)				**Prepared: 09/19/17 Analyzed: 09/26/17**						
Benzo (a) anthracene	376	5.0	ug/kg	333		113	26-132			
Benzo (a) pyrene	297	5.0	ug/kg	333		89	19-146			
Benzo (b) fluoranthene	301	5.0	ug/kg	333		90	40-120			
Benzo (g,h,i) perylene	251	5.0	ug/kg	333		75	18-135			
Benzo (k) fluoranthene	281	5.0	ug/kg	333		84	40-120			
Chrysene	273	5.0	ug/kg	333		82	40-120			
Dibenzo (a,h) anthracene	284	5.0	ug/kg	333		85	20-137			
Fluoranthene	340	5.0	ug/kg	333		102	33-123			
Fluorene	297	5.0	ug/kg	333		89	33-106			
Indeno (1,2,3-cd) pyrene	279	5.0	ug/kg	333		84	16-136			
Naphthalene	264	5.0	ug/kg	333		79	22-98			
Phenanthrene	303	5.0	ug/kg	333		91	32-110			
Pyrene	353	5.0	ug/kg	333		106	34-122			
Surrogate(s)										
2-Fluorobiphenyl	*127*		*ug/kg*	*167*		*76*	*0.1-109*			
Nitrobenzene-d5	*99.9*		*ug/kg*	*167*		*60*	*0.1-107*			
Terphenyl-d14	*174*		*ug/kg*	*167*		*105*	*28-128*			
Matrix Spike (W7I1085-MS1)	**Source: 7H10101-07**			**Prepared: 09/19/17 Analyzed: 09/26/17**						
Acenaphthene	3400	68	ug/kg	4520	ND	75	5-115			M-02
Acenaphthylene	3610	68	ug/kg	4520	ND	80	8-111			M-02
Anthracene	3650	68	ug/kg	4520	ND	81	3-132			M-02
Benzo (a) anthracene	2120	68	ug/kg	4520	ND	47	14-125			M-02
Benzo (a) pyrene	1610	68	ug/kg	4520	ND	36	2-138			M-02
Benzo (b) fluoranthene	1920	68	ug/kg	4520	ND	42	20-150			M-02
Benzo (g,h,i) perylene	1510	68	ug/kg	4520	ND	33	9-129			M-02
Benzo (k) fluoranthene	1740	68	ug/kg	4520	ND	38	20-150			M-02
Chrysene	3240	68	ug/kg	4520	ND	72	20-150			M-02
Dibenzo (a,h) anthracene	1690	68	ug/kg	4520	ND	37	10-144			M-02
Fluoranthene	3340	68	ug/kg	4520	ND	74	11-127			M-02
Fluorene	3680	68	ug/kg	4520	ND	81	4-125			M-02
Indeno (1,2,3-cd) pyrene	1810	68	ug/kg	4520	ND	40	3-137			M-02
Naphthalene	2650	68	ug/kg	4520	ND	59	0.1-117			M-02
Phenanthrene	3710	68	ug/kg	4520	ND	82	10-122			M-02
Pyrene	2460	68	ug/kg	4520	ND	54	10-128			M-02
Surrogate(s)										
2-Fluorobiphenyl	*1380*		*ug/kg*	*2260*		*61*	*0.1-109*			*M-02*
Nitrobenzene-d5	*1050*		*ug/kg*	*2260*		*46*	*0.1-107*			*M-02*
Terphenyl-d14	*1580*		*ug/kg*	*2260*		*70*	*28-128*			*M-02*

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Quality Control Results

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1085 - EPA 8270C SIM (Continued)										
Matrix Spike (W7I1085-MS1)	**Source: 7H10101-07**			**Prepared: 09/19/17**	**Analyzed: 09/26/17**					
Surrogate(s)										
Matrix Spike Dup (W7I1085-MSD1)	**Source: 7H10101-07**			**Prepared: 09/19/17**	**Analyzed: 09/26/17**					
Acenaphthene	3380	69	ug/kg	4630	ND	73	5-115	0.7	30	M-02
Acenaphthylene	3600	69	ug/kg	4630	ND	78	8-111	0.1	30	M-02
Anthracene	3780	69	ug/kg	4630	ND	82	3-132	3	30	M-02
Benzo (a) anthracene	1330	69	ug/kg	4630	ND	29	14-125	45	30	M-02, MS-05
Benzo (a) pyrene	1300	69	ug/kg	4630	ND	28	2-138	21	30	M-02
Benzo (b) fluoranthene	1590	69	ug/kg	4630	ND	34	20-150	19	30	M-02
Benzo (g,h,i) perylene	2000	69	ug/kg	4630	ND	43	9-129	28	30	M-02
Benzo (k) fluoranthene	1430	69	ug/kg	4630	ND	31	20-150	20	30	M-02
Chrysene	3360	69	ug/kg	4630	ND	73	20-150	4	30	M-02
Dibenzo (a,h) anthracene	2170	69	ug/kg	4630	ND	47	10-144	25	30	M-02
Fluoranthene	2920	69	ug/kg	4630	ND	63	11-127	13	30	M-02
Fluorene	3700	69	ug/kg	4630	ND	80	4-125	0.7	30	M-02
Indeno (1,2,3-cd) pyrene	2190	69	ug/kg	4630	ND	47	3-137	19	30	M-02
Naphthalene	2590	69	ug/kg	4630	ND	56	0.1-117	2	30	M-02
Phenanthrene	3860	69	ug/kg	4630	ND	83	10-122	4	30	M-02
Pyrene	2060	69	ug/kg	4630	ND	45	10-128	18	30	M-02
Surrogate(s)										
2-Fluorobiphenyl		*1470*	*ug/kg*	*2310*		*63*	*0.1-109*			*M-02*
Nitrobenzene-d5		*1060*	*ug/kg*	*2310*		*46*	*0.1-107*			*M-02*
Terphenyl-d14		*1260*	*ug/kg*	*2310*		*54*	*28-128*			*M-02*

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Quality Control Results

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Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B										
Blank (W7I0387-BLK1)				**Prepared & Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2-Trichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
1,1-Dichloropropene	ND	5.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg							
1,2-Dichloroethane	ND	5.0	ug/kg							
1,2-Dichloropropane	ND	5.0	ug/kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/kg							
1,3-Dichloropropane	ND	5.0	ug/kg							
2,2-Dichloropropane	ND	5.0	ug/kg							
2-Butanone	ND	5.0	ug/kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
2-Hexanone	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
4-Methyl-2-pentanone	ND	5.0	ug/kg							
Acetone	ND	5.0	ug/kg							
Acrolein	ND	5.0	ug/kg							
Acrylonitrile	ND	5.0	ug/kg							
Benzene	ND	5.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	5.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	5.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	5.0	ug/kg							

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Blank (W7I0387-BLK1)				**Prepared & Analyzed: 09/08/17**						
Chloromethane	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	5.0	ug/kg							
cis-1,3-Dichloropropene	ND	5.0	ug/kg							
Dibromochloromethane	ND	5.0	ug/kg							
Dibromomethane	ND	5.0	ug/kg							
Dichlorodifluoromethane (Freon 12)	ND	5.0	ug/kg							
Ethylbenzene	ND	5.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	5.0	ug/kg							
m,p-Xylene	ND	5.0	ug/kg							
m-Dichlorobenzene	ND	5.0	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
n-Propylbenzene	ND	5.0	ug/kg							
o-Dichlorobenzene	ND	5.0	ug/kg							
o-Xylene	ND	5.0	ug/kg							
p-Dichlorobenzene	ND	5.0	ug/kg							
p-Isopropyltoluene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
Styrene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Tetrachloroethene	ND	5.0	ug/kg							
Toluene	ND	5.0	ug/kg							
trans-1,2-Dichloroethene	ND	5.0	ug/kg							
trans-1,3-Dichloropropene	ND	5.0	ug/kg							
Trichloroethene	ND	5.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
Surrogate(s)										
1,2-Dichloroethane-d4		*46.6*	*ug/kg*	*50.0*		*93*	*78-140*			
4-Bromofluorobenzene		*48.1*	*ug/kg*	*50.0*		*96*	*85-116*			
Dibromofluoromethane		*47.7*	*ug/kg*	*50.0*		*95*	*84-120*			
Toluene-d8		*50.9*	*ug/kg*	*50.0*		*102*	*82-120*			
LCS (W7I0387-BS1)				**Prepared & Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	60.8	5.0	ug/kg	50.0		122	81-120			Q-08

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Quality Control Results

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
LCS (W7I0387-BS1)				**Prepared & Analyzed: 09/08/17**						
1,1,1-Trichloroethane	59.0	5.0	ug/kg	50.0		118	78-125			
1,1,2,2-Tetrachloroethane	58.7	5.0	ug/kg	50.0		117	67-115			Q-08
1,1,2-Trichloroethane	57.3	5.0	ug/kg	50.0		115	85-121			
1,1-Dichloroethane	58.3	5.0	ug/kg	50.0		117	84-118			
1,1-Dichloroethene	50.1	5.0	ug/kg	50.0		100	80-123			
1,1-Dichloropropene	61.8	5.0	ug/kg	50.0		124	79-128			
1,2,3-Trichlorobenzene	62.7	5.0	ug/kg	50.0		125	36-201			
1,2,3-Trichloropropane	55.9	5.0	ug/kg	50.0		112	65-115			
1,2,4-Trichlorobenzene	65.6	5.0	ug/kg	50.0		131	69-143			
1,2,4-Trimethylbenzene	62.6	5.0	ug/kg	50.0		125	70-119			Q-08
1,2-Dibromo-3-chloropropane	54.1	5.0	ug/kg	50.0		108	62-140			
1,2-Dibromoethane (EDB)	57.5	5.0	ug/kg	50.0		115	86-125			
1,2-Dichloroethane	57.2	5.0	ug/kg	50.0		114	74-123			
1,2-Dichloropropane	60.4	5.0	ug/kg	50.0		121	83-122			
1,3,5-Trimethylbenzene	61.7	5.0	ug/kg	50.0		123	66-122			Q-08
1,3-Dichloropropane	59.6	5.0	ug/kg	50.0		119	85-122			
2,2-Dichloropropane	64.8	5.0	ug/kg	50.0		130	78-124			Q-08
2-Butanone	53.0	5.0	ug/kg	50.0		106	65-139			
2-Chloroethyl vinyl ether	82.8	5.0	ug/kg	50.0		166	62-134			Q-08
2-Chlorotoluene	60.9	5.0	ug/kg	50.0		122	65-118			Q-08
2-Hexanone	56.3	5.0	ug/kg	50.0		113	72-138			
4-Chlorotoluene	62.6	5.0	ug/kg	50.0		125	71-116			Q-08
4-Methyl-2-pentanone	54.8	5.0	ug/kg	50.0		110	70-133			
Acetone	41.9	5.0	ug/kg	50.0		84	57-138			
Acrolein	46.6	5.0	ug/kg	50.0		93	57-139			
Acrylonitrile	53.6	5.0	ug/kg	50.0		107	78-124			
Benzene	58.2	5.0	ug/kg	50.0		116	83-121			
Bromobenzene	60.6	5.0	ug/kg	50.0		121	67-115			Q-08
Bromochloromethane	59.0	5.0	ug/kg	50.0		118	82-117			Q-08
Bromodichloromethane	58.9	5.0	ug/kg	50.0		118	78-122			
Bromoform	59.7	5.0	ug/kg	50.0		119	83-125			
Bromomethane	40.6	5.0	ug/kg	50.0		81	58-133			
Carbon tetrachloride	58.0	5.0	ug/kg	50.0		116	79-126			
Chlorobenzene	58.3	5.0	ug/kg	50.0		117	84-118			
Chloroethane	36.6	5.0	ug/kg	50.0		73	58-135			
Chloroform	58.4	5.0	ug/kg	50.0		117	80-123			
Chloromethane	53.6	5.0	ug/kg	50.0		107	58-128			

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
LCS (W7I0387-BS1)				**Prepared & Analyzed: 09/08/17**						
cis-1,2-Dichloroethene	61.0	5.0	ug/kg	50.0		122	83-120			Q-08
cis-1,3-Dichloropropene	64.2	5.0	ug/kg	50.0		128	88-123			Q-08
Dibromochloromethane	60.0	5.0	ug/kg	50.0		120	83-124			
Dibromomethane	58.8	5.0	ug/kg	50.0		118	84-123			
Dichlorodifluoromethane (Freon 12)	55.1	5.0	ug/kg	50.0		110	67-126			
Ethylbenzene	59.3	5.0	ug/kg	50.0		119	80-120			
Hexachlorobutadiene	60.0	5.0	ug/kg	50.0		120	70-130			
Isopropylbenzene	64.0	5.0	ug/kg	50.0		128	66-122			Q-08
m,p-Xylene	60.4	5.0	ug/kg	50.0		121	78-120			Q-08
m-Dichlorobenzene	58.7	5.0	ug/kg	50.0		117	75-119			
Methyl tert-butyl ether (MTBE)	58.8	5.0	ug/kg	50.0		118	83-122			
Methylene chloride	53.9	5.0	ug/kg	50.0		108	76-118			
Naphthalene	64.4	5.0	ug/kg	50.0		129	42-190			
n-Butylbenzene	63.3	5.0	ug/kg	50.0		127	68-119			Q-08
n-Propylbenzene	61.8	5.0	ug/kg	50.0		124	64-120			Q-08
o-Dichlorobenzene	58.3	5.0	ug/kg	50.0		117	77-117			
o-Xylene	62.1	5.0	ug/kg	50.0		124	77-126			
p-Dichlorobenzene	59.6	5.0	ug/kg	50.0		119	76-119			
p-Isopropyltoluene	62.1	5.0	ug/kg	50.0		124	70-123			Q-08
sec-Butylbenzene	60.5	5.0	ug/kg	50.0		121	67-120			Q-08
Styrene	61.1	5.0	ug/kg	50.0		122	84-125			
tert-Butylbenzene	61.3	5.0	ug/kg	50.0		123	70-119			Q-08
Tetrachloroethene	56.2	5.0	ug/kg	50.0		112	80-129			
Toluene	54.7	5.0	ug/kg	50.0		109	81-126			
trans-1,2-Dichloroethene	57.9	5.0	ug/kg	50.0		116	82-123			
trans-1,3-Dichloropropene	57.2	5.0	ug/kg	50.0		114	81-131			
Trichloroethene	58.9	5.0	ug/kg	50.0		118	82-118			
Trichlorofluoromethane	53.1	5.0	ug/kg	50.0		106	72-129			
Vinyl chloride	56.1	5.0	ug/kg	50.0		112	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4	*45.4*		*ug/kg*	*50.0*		*91*	*78-140*			
4-Bromofluorobenzene	*48.2*		*ug/kg*	*50.0*		*96*	*85-116*			
Dibromofluoromethane	*48.6*		*ug/kg*	*50.0*		*97*	*84-120*			
Toluene-d8	*48.3*		*ug/kg*	*50.0*		*97*	*82-120*			
Matrix Spike (W7I0387-MS1)		**Source: 7H09100-09**		**Prepared & Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	2560	250	ug/kg	2500	ND	102	50-150			
1,1,1-Trichloroethane	2500	250	ug/kg	2500	ND	100	50-150			

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Quality Control Results

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Matrix Spike (W7I0387-MS1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
1,1,2,2-Tetrachloroethane	2590	250	ug/kg	2500	ND	104	50-150			
1,1,2-Trichloroethane	2780	250	ug/kg	2500	ND	111	50-150			
1,1-Dichloroethane	2460	250	ug/kg	2500	ND	98	50-150			
1,1-Dichloroethene	2460	250	ug/kg	2500	ND	98	38-139			
1,1-Dichloropropene	2630	250	ug/kg	2500	ND	105	50-150			
1,2,3-Trichlorobenzene	2640	250	ug/kg	2500	ND	105	50-150			
1,2,3-Trichloropropane	2510	250	ug/kg	2500	ND	101	50-150			
1,2,4-Trichlorobenzene	2690	250	ug/kg	2500	ND	108	50-150			
1,2,4-Trimethylbenzene	2690	250	ug/kg	2500	ND	108	50-150			
1,2-Dibromo-3-chloropropane	2610	250	ug/kg	2500	ND	104	50-150			
1,2-Dibromoethane (EDB)	2830	250	ug/kg	2500	ND	113	50-150			
1,2-Dichloroethane	2550	250	ug/kg	2500	ND	102	50-150			
1,2-Dichloropropane	2670	250	ug/kg	2500	ND	107	50-150			
1,3,5-Trimethylbenzene	2680	250	ug/kg	2500	ND	107	50-150			
1,3-Dichloropropane	2850	250	ug/kg	2500	ND	114	50-150			
2,2-Dichloropropane	2640	250	ug/kg	2500	ND	105	50-150			
2-Butanone	3000	250	ug/kg	2500	ND	120	50-150			
2-Chloroethyl vinyl ether	4200	250	ug/kg	2500	ND	168	50-150			Q-08
2-Chlorotoluene	2680	250	ug/kg	2500	ND	107	50-150			
2-Hexanone	3070	250	ug/kg	2500	ND	123	50-150			
4-Chlorotoluene	2720	250	ug/kg	2500	ND	109	50-150			
4-Methyl-2-pentanone	2960	250	ug/kg	2500	ND	118	50-150			
Acetone	2210	250	ug/kg	2500	507	68	50-150			
Acrolein	2150	250	ug/kg	2500	ND	86	50-150			
Acrylonitrile	2890	250	ug/kg	2500	ND	116	50-150			
Benzene	2560	250	ug/kg	2500	ND	103	30-134			
Bromobenzene	2600	250	ug/kg	2500	ND	104	50-150			
Bromochloromethane	2440	250	ug/kg	2500	ND	98	50-150			
Bromodichloromethane	2630	250	ug/kg	2500	ND	105	50-150			
Bromoform	2680	250	ug/kg	2500	ND	107	50-150			
Bromomethane	2070	250	ug/kg	2500	285	71	50-150			
Carbon tetrachloride	2420	250	ug/kg	2500	ND	97	50-150			
Chlorobenzene	2550	250	ug/kg	2500	ND	102	3-135			
Chloroethane	248	250	ug/kg	2500	ND	10	50-150			MS-05
Chloroform	2500	250	ug/kg	2500	ND	100	50-150			
Chloromethane	2590	250	ug/kg	2500	ND	104	50-150			
cis-1,2-Dichloroethene	2570	250	ug/kg	2500	ND	103	50-150			

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Matrix Spike (W7I0387-MS1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
cis-1,3-Dichloropropene	2910	250	ug/kg	2500	ND	116	50-150			
Dibromochloromethane	2840	250	ug/kg	2500	ND	114	50-150			
Dibromomethane	2650	250	ug/kg	2500	ND	106	50-150			
Dichlorodifluoromethane (Freon 12)	2510	250	ug/kg	2500	ND	100	50-150			
Ethylbenzene	2650	250	ug/kg	2500	ND	106	50-150			
Hexachlorobutadiene	2500	250	ug/kg	2500	ND	100	50-150			
Isopropylbenzene	2740	250	ug/kg	2500	ND	109	50-150			
m,p-Xylene	2740	250	ug/kg	2500	ND	110	50-150			
m-Dichlorobenzene	2520	250	ug/kg	2500	ND	101	50-150			
Methyl tert-butyl ether (MTBE)	2590	250	ug/kg	2500	ND	103	50-150			
Methylene chloride	2420	250	ug/kg	2500	ND	97	50-150			
Naphthalene	3000	250	ug/kg	2500	ND	120	50-150			
n-Butylbenzene	2740	250	ug/kg	2500	ND	110	50-150			
n-Propylbenzene	2680	250	ug/kg	2500	ND	107	50-150			
o-Dichlorobenzene	2570	250	ug/kg	2500	ND	103	50-150			
o-Xylene	2830	250	ug/kg	2500	ND	113	50-150			
p-Dichlorobenzene	2590	250	ug/kg	2500	ND	103	50-150			
p-Isopropyltoluene	2750	250	ug/kg	2500	ND	110	50-150			
sec-Butylbenzene	2710	250	ug/kg	2500	ND	108	50-150			
Styrene	2810	250	ug/kg	2500	ND	112	50-150			
tert-Butylbenzene	2730	250	ug/kg	2500	ND	109	50-150			
Tetrachloroethene	2650	250	ug/kg	2500	ND	106	50-150			
Toluene	2690	250	ug/kg	2500	ND	108	11-140			
trans-1,2-Dichloroethene	2460	250	ug/kg	2500	ND	98	50-150			
trans-1,3-Dichloropropene	2660	250	ug/kg	2500	ND	107	50-150			
Trichloroethene	2560	250	ug/kg	2500	ND	102	10-144			
Trichlorofluoromethane	293	250	ug/kg	2500	ND	12	50-150			MS-05
Vinyl chloride	2250	250	ug/kg	2500	ND	90	50-150			
Surrogate(s)										
1,2-Dichloroethane-d4	*52.9*		*ug/kg*	*50.0*		*106*	*78-140*			
4-Bromofluorobenzene	*52.6*		*ug/kg*	*50.0*		*105*	*85-116*			
Dibromofluoromethane	*48.9*		*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8	*52.6*		*ug/kg*	*50.0*		*105*	*82-120*			
Matrix Spike Dup (W7I0387-MSD1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
1,1,1,2-Tetrachloroethane	2500	250	ug/kg	2500	ND	100	50-150	2	25	
1,1,1-Trichloroethane	2490	250	ug/kg	2500	ND	99	50-150	0.7	25	
1,1,2,2-Tetrachloroethane	2550	250	ug/kg	2500	ND	102	50-150	2	25	

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Matrix Spike Dup (W7I0387-MSD1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
1,1,2-Trichloroethane	2760	250	ug/kg	2500	ND	110	50-150	0.5	25	
1,1-Dichloroethane	2460	250	ug/kg	2500	ND	98	50-150	0.02	25	
1,1-Dichloroethene	2190	250	ug/kg	2500	ND	87	38-139	12	25	
1,1-Dichloropropene	2600	250	ug/kg	2500	ND	104	50-150	1	25	
1,2,3-Trichlorobenzene	2510	250	ug/kg	2500	ND	100	50-150	5	25	
1,2,3-Trichloropropane	2530	250	ug/kg	2500	ND	101	50-150	0.5	25	
1,2,4-Trichlorobenzene	2580	250	ug/kg	2500	ND	103	50-150	4	25	
1,2,4-Trimethylbenzene	2670	250	ug/kg	2500	ND	107	50-150	0.6	25	
1,2-Dibromo-3-chloropropane	2420	250	ug/kg	2500	ND	97	50-150	8	25	
1,2-Dibromoethane (EDB)	2800	250	ug/kg	2500	ND	112	50-150	0.8	25	
1,2-Dichloroethane	2470	250	ug/kg	2500	ND	99	50-150	3	25	
1,2-Dichloropropane	2580	250	ug/kg	2500	ND	103	50-150	4	25	
1,3,5-Trimethylbenzene	2640	250	ug/kg	2500	ND	106	50-150	1	25	
1,3-Dichloropropane	2830	250	ug/kg	2500	ND	113	50-150	0.9	25	
2,2-Dichloropropane	2590	250	ug/kg	2500	ND	104	50-150	2	25	
2-Butanone	2750	250	ug/kg	2500	ND	110	50-150	9	25	
2-Chloroethyl vinyl ether	4030	250	ug/kg	2500	ND	161	50-150	4	25	Q-08
2-Chlorotoluene	2610	250	ug/kg	2500	ND	104	50-150	3	25	
2-Hexanone	2970	250	ug/kg	2500	ND	119	50-150	3	25	
4-Chlorotoluene	2690	250	ug/kg	2500	ND	108	50-150	1	25	
4-Methyl-2-pentanone	2840	250	ug/kg	2500	ND	114	50-150	4	25	
Acetone	2280	250	ug/kg	2500	507	71	50-150	3	25	
Acrolein	2050	250	ug/kg	2500	ND	82	50-150	5	25	
Acrylonitrile	2730	250	ug/kg	2500	ND	109	50-150	6	25	
Benzene	2530	250	ug/kg	2500	ND	101	30-134	1	25	
Bromobenzene	2570	250	ug/kg	2500	ND	103	50-150	1	25	
Bromochloromethane	2320	250	ug/kg	2500	ND	93	50-150	5	25	
Bromodichloromethane	2560	250	ug/kg	2500	ND	102	50-150	3	25	
Bromoform	2620	250	ug/kg	2500	ND	105	50-150	2	25	
Bromomethane	2290	250	ug/kg	2500	285	80	50-150	10	25	
Carbon tetrachloride	2410	250	ug/kg	2500	ND	96	50-150	0.7	25	
Chlorobenzene	2450	250	ug/kg	2500	ND	98	3-135	4	25	
Chloroethane	240	250	ug/kg	2500	ND	10	50-150	200	25	MS-05
Chloroform	2440	250	ug/kg	2500	ND	98	50-150	2	25	
Chloromethane	2600	250	ug/kg	2500	ND	104	50-150	0.4	25	
cis-1,2-Dichloroethene	2520	250	ug/kg	2500	ND	101	50-150	2	25	
cis-1,3-Dichloropropene	2770	250	ug/kg	2500	ND	111	50-150	5	25	

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Reported: 10/23/2017 15:59

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0387 - EPA 8260B (Continued)										
Matrix Spike Dup (W7I0387-MSD1)	**Source: 7H09100-09**			**Prepared & Analyzed: 09/08/17**						
Dibromochloromethane	2870	250	ug/kg	2500	ND	115	50-150	0.7	25	
Dibromomethane	2570	250	ug/kg	2500	ND	103	50-150	3	25	
Dichlorodifluoromethane (Freon 12)	2580	250	ug/kg	2500	ND	103	50-150	3	25	
Ethylbenzene	2530	250	ug/kg	2500	ND	101	50-150	4	25	
Hexachlorobutadiene	2410	250	ug/kg	2500	ND	96	50-150	4	25	
Isopropylbenzene	2700	250	ug/kg	2500	ND	108	50-150	1	25	
m,p-Xylene	2660	250	ug/kg	2500	ND	106	50-150	3	25	
m-Dichlorobenzene	2510	250	ug/kg	2500	ND	100	50-150	0.4	25	
Methyl tert-butyl ether (MTBE)	2490	250	ug/kg	2500	ND	100	50-150	4	25	
Methylene chloride	2390	250	ug/kg	2500	ND	96	50-150	1	25	
Naphthalene	2770	250	ug/kg	2500	ND	111	50-150	8	25	
n-Butylbenzene	2680	250	ug/kg	2500	ND	107	50-150	2	25	
n-Propylbenzene	2660	250	ug/kg	2500	ND	106	50-150	1	25	
o-Dichlorobenzene	2510	250	ug/kg	2500	ND	101	50-150	2	25	
o-Xylene	2740	250	ug/kg	2500	ND	110	50-150	3	25	
p-Dichlorobenzene	2560	250	ug/kg	2500	ND	103	50-150	0.9	25	
p-Isopropyltoluene	2730	250	ug/kg	2500	ND	109	50-150	0.7	25	
sec-Butylbenzene	2710	250	ug/kg	2500	ND	108	50-150	0.1	25	
Styrene	2730	250	ug/kg	2500	ND	109	50-150	3	25	
tert-Butylbenzene	2730	250	ug/kg	2500	ND	109	50-150	0.1	25	
Tetrachloroethene	2610	250	ug/kg	2500	ND	104	50-150	2	25	
Toluene	2680	250	ug/kg	2500	ND	107	11-140	0.7	25	
trans-1,2-Dichloroethene	2440	250	ug/kg	2500	ND	97	50-150	1	25	
trans-1,3-Dichloropropene	2610	250	ug/kg	2500	ND	104	50-150	2	25	
Trichloroethene	2500	250	ug/kg	2500	ND	100	10-144	2	25	
Trichlorofluoromethane	550	250	ug/kg	2500	ND	22	50-150	200	25	MS-05
Vinyl chloride	2280	250	ug/kg	2500	ND	91	50-150	1	25	
Surrogate(s)										
1,2-Dichloroethane-d4		*52.0*	*ug/kg*	*50.0*		*104*	*78-140*			
4-Bromofluorobenzene		*52.7*	*ug/kg*	*50.0*		*105*	*85-116*			
Dibromofluoromethane		*48.8*	*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8		*53.4*	*ug/kg*	*50.0*		*107*	*82-120*			

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Notes and Definitions

Item	Definition
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
S-04	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	7H11055	**Report Date:**	10/23/2017
		Received Date:	8/11/2017
Project:	McMurtrey, Hartsock & Worth	**Turnaround Time:**	Normal
		Phones:	(661) 322-4417
		Fax:	-
Attn:	Robert Hartsock	**P.O. #:**	
Client:	Law Offices of McMurtrey, Hartsock & Worth 2001 22nd Street, Suite 100 Bakersfield, CA 93301	**Billing Code:**	

DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Robert Hartsock,

Enclosed are the results of analyses for samples received 8/11/17 with the Chain-of-Custody document. The samples were received in good condition, at 4.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Chris Samatmanakit
Project Manager

14859 East Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
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2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported:
10/23/2017 16:06

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Alm05-20170810-0645	A.Saceaux	7H11055-01	Solid	08/10/17 06:45	
Alm21-20170810-0648	A.Saceaux	7H11055-02	Solid	08/10/17 06:48	
Alm04-20170810-0745	A.Saceaux	7H11055-03	Solid	08/10/17 07:45	
Alm03-20170810-0822	A.Saceaux	7H11055-04	Solid	08/10/17 08:22	
Alm02-20170810-0845	A.Saceaux	7H11055-05	Solid	08/10/17 08:45	
Alm01-20170810-0915	A.Saceaux	7H11055-06	Solid	08/10/17 09:15	

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Reported: 10/23/2017 16:06

Sample Results

Sample: Alm05-20170810-0645 — Sampled: 08/10/17 6:45 by A.Saceaux

7H11055-01 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0517	**Prepared:** 09/11/17 14:21				**Analyst:** cam
Methanol	ND	380	mg/kg	20	09/13/17 15:56	M-04, M-02
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0919	**Prepared:** 08/15/17 14:53				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/07/17 15:14	
Method: EPA 6020B	**Batch ID:** W7H0925	**Prepared:** 08/15/17 15:04				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/07/17 14:58	
Arsenic, Total	ND	0.50	mg/kg	1	09/07/17 14:58	
Barium, Total	**1.4**	0.50	mg/kg	1	09/07/17 14:58	
Beryllium, Total	ND	0.30	mg/kg	1	09/07/17 14:58	
Cadmium, Total	ND	0.20	mg/kg	1	09/07/17 14:58	
Chromium, Total	ND	1.0	mg/kg	1	09/07/17 14:58	
Cobalt, Total	ND	0.50	mg/kg	1	09/07/17 14:58	
Lead, Total	ND	0.50	mg/kg	1	09/07/17 14:58	
Molybdenum, Total	ND	0.50	mg/kg	1	09/07/17 14:58	
Nickel, Total	ND	1.0	mg/kg	1	09/07/17 14:58	
Selenium, Total	ND	0.50	mg/kg	1	09/07/17 14:58	
Silver, Total	ND	0.50	mg/kg	1	09/07/17 14:58	
Strontium, Total	**5.3**	0.50	mg/kg	1	09/07/17 14:58	
Thallium, Total	ND	0.50	mg/kg	1	09/07/17 14:58	
Vanadium, Total	ND	1.0	mg/kg	1	09/07/17 14:58	
Method: EPA 6020B	**Batch ID:** W7I0358	**Prepared:** 09/07/17 16:56				**Analyst:** MTT
Copper, Total	**8.4**	0.50	mg/kg	1	09/12/17 11:52	
Zinc, Total	**24**	5.0	mg/kg	1	09/12/17 11:52	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.47	mg/kg	1	09/28/17 22:46	M-02
Carbazole	ND	0.47	mg/kg	1	09/28/17 22:46	M-02
Phenol	ND	0.47	mg/kg	1	09/28/17 22:46	M-02
Pyridine	ND	0.93	mg/kg	1	09/28/17 22:46	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*43%*	*Conc: 2.03*	*32-103*		*09/28/17 22:46*	*M-02*
2-Fluorobiphenyl	*48%*	*Conc: 1.13*	*36-107*		*09/28/17 22:46*	*M-02*
2-Fluorophenol	*35%*	*Conc: 1.61*	*33-119*		*09/28/17 22:46*	*M-02*
Nitrobenzene-d5	*23%*	*Conc: 0.549*	*36-114*		*09/28/17 22:46*	*M-02, S-GC*
Phenol-d5	*41%*	*Conc: 1.94*	*40-118*		*09/28/17 22:46*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/28/17 22:46*	*M-02, S-GC*

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Reported: 10/23/2017 16:06

Sample Results

(Continued)

Sample: Alm05-20170810-0645 — Sampled: 08/10/17 6:45 by A.Saceaux

7H11055-01 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM — **Batch ID:** W7I1085 — **Prepared:** 09/19/17 15:17 — **Analyst:** etn						
1-Methylnaphthalene	ND	70	ug/kg	1	09/27/17 02:01	M-02
2-Methylnaphthalene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Acenaphthene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Acenaphthylene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Anthracene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Benzo (a) anthracene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Benzo (a) pyrene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Benzo (b) fluoranthene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Benzo (g,h,i) perylene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Benzo (k) fluoranthene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Chrysene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Dibenzo (a,h) anthracene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Fluoranthene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Fluorene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Indeno (1,2,3-cd) pyrene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Naphthalene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Phenanthrene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Pyrene	ND	70	ug/kg	1	09/27/17 02:01	M-02
Surrogate(s)						
2-Fluorobiphenyl	*60%*	*Conc: 1410*	*0.1-109*		*09/27/17 02:01*	*M-02*
Nitrobenzene-d5	*40%*	*Conc: 929*	*0.1-107*		*09/27/17 02:01*	*M-02*
Terphenyl-d14	*32%*	*Conc: 757*	*28-128*		*09/27/17 02:01*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B — **Batch ID:** W7I0492 — **Prepared:** 09/11/17 11:10 — **Analyst:** dil						
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/11/17 16:43	M-04

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Reported: 10/23/2017 16:06

Sample Results

(Continued)

Sample: Alm05-20170810-0645 — Sampled: 08/10/17 6:45 by A.Saceaux

7H11055-01 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
2-Butanone	ND	1200	ug/kg	50	09/11/17 16:43	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/11/17 16:43	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
2-Hexanone	ND	1200	ug/kg	50	09/11/17 16:43	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Acetone	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Acrolein	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Benzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Bromobenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Bromoform	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Bromomethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Chloroethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Chloroform	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Chloromethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Dibromomethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Methylene chloride	ND	1200	ug/kg	50	09/11/17 16:43	M-04

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Sample Results

(Continued)

Sample: Alm05-20170810-0645 — Sampled: 08/10/17 6:45 by A.Saceaux

7H11055-01 (Solid)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
o-Xylene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Styrene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Toluene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Trichloroethene	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/11/17 16:43	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*94%*	*Conc: 221*	*78-140*		*09/11/17 16:43*	*M-04*
4-Bromofluorobenzene	*98%*	*Conc: 230*	*85-116*		*09/11/17 16:43*	*M-04*
Dibromofluoromethane	*96%*	*Conc: 226*	*84-120*		*09/11/17 16:43*	*M-04*
Toluene-d8	*100%*	*Conc: 235*	*82-120*		*09/11/17 16:43*	*M-04*

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Sample Results

(Continued)

Sample: Alm21-20170810-0648 — Sampled: 08/10/17 6:48 by A.Saceaux

7H11055-02 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0919	**Prepared:** 08/15/17 14:53				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/07/17 15:17	
Method: EPA 6020B	**Batch ID:** W7H0925	**Prepared:** 08/15/17 15:04				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/07/17 15:06	
Arsenic, Total	ND	0.50	mg/kg	1	09/07/17 15:06	
Barium, Total	**1.4**	0.50	mg/kg	1	09/07/17 15:06	
Beryllium, Total	ND	0.30	mg/kg	1	09/07/17 15:06	
Cadmium, Total	ND	0.20	mg/kg	1	09/07/17 15:06	
Chromium, Total	ND	1.0	mg/kg	1	09/07/17 15:06	
Cobalt, Total	ND	0.50	mg/kg	1	09/07/17 15:06	
Lead, Total	ND	0.50	mg/kg	1	09/07/17 15:06	
Molybdenum, Total	ND	0.50	mg/kg	1	09/07/17 15:06	
Nickel, Total	ND	1.0	mg/kg	1	09/07/17 15:06	
Selenium, Total	ND	0.50	mg/kg	1	09/07/17 15:06	
Silver, Total	ND	0.50	mg/kg	1	09/07/17 15:06	
Strontium, Total	**5.5**	0.50	mg/kg	1	09/07/17 15:06	
Thallium, Total	ND	0.50	mg/kg	1	09/07/17 15:06	
Vanadium, Total	ND	1.0	mg/kg	1	09/07/17 15:06	
Method: EPA 6020B	**Batch ID:** W7I0358	**Prepared:** 09/07/17 16:56				**Analyst:** MTT
Copper, Total	**8.4**	0.50	mg/kg	1	09/12/17 11:55	
Zinc, Total	**23**	5.0	mg/kg	1	09/12/17 11:55	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.44	mg/kg	1	09/28/17 23:16	M-02
Carbazole	ND	0.44	mg/kg	1	09/28/17 23:16	M-02
Phenol	ND	0.44	mg/kg	1	09/28/17 23:16	M-02
Pyridine	ND	0.88	mg/kg	1	09/28/17 23:16	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*35% Conc: 1.54*	*32-103*			*09/28/17 23:16*	*M-02*
2-Fluorobiphenyl	*42% Conc: 0.919*	*36-107*			*09/28/17 23:16*	*M-02*
2-Fluorophenol	*34% Conc: 1.49*	*33-119*			*09/28/17 23:16*	*M-02*
Nitrobenzene-d5	*27% Conc: 0.596*	*36-114*			*09/28/17 23:16*	*M-02, S-GC*
Phenol-d5	*42% Conc: 1.84*	*40-118*			*09/28/17 23:16*	*M-02*
Terphenyl-d14	*% Conc: 0.00*	*40-121*			*09/28/17 23:16*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I1085	**Prepared:** 09/19/17 15:17				**Analyst:** etn
1-Methylnaphthalene	ND	66	ug/kg	1	09/27/17 02:34	M-02

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Sample Results

(Continued)

Sample: Alm21-20170810-0648 — Sampled: 08/10/17 6:48 by A.Saceaux

7H11055-02 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
2-Methylnaphthalene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Acenaphthene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Acenaphthylene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Anthracene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Benzo (a) anthracene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Benzo (a) pyrene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Benzo (b) fluoranthene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Benzo (g,h,i) perylene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Benzo (k) fluoranthene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Chrysene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Dibenzo (a,h) anthracene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Fluoranthene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Fluorene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Indeno (1,2,3-cd) pyrene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Naphthalene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Phenanthrene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Pyrene	ND	66	ug/kg	1	09/27/17 02:34	M-02
Surrogate(s)						
2-Fluorobiphenyl	*61%*	*Conc: 1340*	*0.1-109*		*09/27/17 02:34*	*M-02*
Nitrobenzene-d5	*42%*	*Conc: 916*	*0.1-107*		*09/27/17 02:34*	*M-02*
Terphenyl-d14	*29%*	*Conc: 641*	*28-128*		*09/27/17 02:34*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0492	**Prepared:** 09/11/17 11:10				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,1,1-Trichloroethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,1,2,2-Tetrachloroethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,1,2-Trichloroethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,1-Dichloroethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,1-Dichloroethene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,1-Dichloropropene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,2,3-Trichlorobenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,2,3-Trichloropropane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,2,4-Trichlorobenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,2,4-Trimethylbenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,2-Dibromo-3-chloropropane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,2-Dibromoethane (EDB)	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,2-Dichloroethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,2-Dichloropropane	ND	1100	ug/kg	50	09/11/17 17:14	M-04

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Sample Results

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Sample: Alm21-20170810-0648 — Sampled: 08/10/17 6:48 by A.Saceaux

7H11055-02 (Solid)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,3,5-Trimethylbenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
1,3-Dichloropropane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
2,2-Dichloropropane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
2-Butanone	ND	1100	ug/kg	50	09/11/17 17:14	M-04
2-Chloroethyl vinyl ether	ND	1100	ug/kg	50	09/11/17 17:14	M-04
2-Chlorotoluene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
2-Hexanone	ND	1100	ug/kg	50	09/11/17 17:14	M-04
4-Chlorotoluene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
4-Methyl-2-pentanone	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Acetone	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Acrolein	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Acrylonitrile	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Benzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Bromobenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Bromochloromethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Bromodichloromethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Bromoform	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Bromomethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Carbon tetrachloride	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Chlorobenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Chloroethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Chloroform	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Chloromethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
cis-1,2-Dichloroethene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
cis-1,3-Dichloropropene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Dibromochloromethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Dibromomethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Dichlorodifluoromethane (Freon 12)	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Ethylbenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Hexachlorobutadiene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Isopropylbenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
m,p-Xylene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
m-Dichlorobenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Methyl tert-butyl ether (MTBE)	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Methylene chloride	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Naphthalene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
n-Butylbenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04

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Sample Results

(Continued)

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7H11055-02 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
n-Propylbenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
o-Dichlorobenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
o-Xylene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
p-Dichlorobenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
p-Isopropyltoluene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
sec-Butylbenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Styrene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
tert-Butylbenzene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Tetrachloroethene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Toluene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
trans-1,2-Dichloroethene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
trans-1,3-Dichloropropene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Trichloroethene	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Trichlorofluoromethane	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Vinyl chloride	ND	1100	ug/kg	50	09/11/17 17:14	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*95%*	*Conc: 218*	*78-140*		*09/11/17 17:14*	*M-04*
4-Bromofluorobenzene	*99%*	*Conc: 226*	*85-116*		*09/11/17 17:14*	*M-04*
Dibromofluoromethane	*97%*	*Conc: 222*	*84-120*		*09/11/17 17:14*	*M-04*
Toluene-d8	*101%*	*Conc: 233*	*82-120*		*09/11/17 17:14*	*M-04*

Sample: Alm21-20170810-0648 — Sampled: 08/10/17 6:48 by A.Saceaux

7H11055-02RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0962	**Prepared:** 09/18/17 11:47				**Analyst:** cam
Methanol	ND	440	mg/kg	20	10/04/17 19:48	M-02, M-04

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Sample Results

(Continued)

Sample: Alm04-20170810-0745 — Sampled: 08/10/17 7:45 by A.Saceaux

7H11055-03 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0517	**Prepared:** 09/11/17 14:21				**Analyst:** cam
Methanol	ND	430	mg/kg	20	09/13/17 16:21	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0919	**Prepared:** 08/15/17 14:53				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/07/17 15:20	
Method: EPA 6020B	**Batch ID:** W7H0925	**Prepared:** 08/15/17 15:04				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/07/17 17:26	
Arsenic, Total	ND	0.50	mg/kg	1	09/07/17 17:26	
Barium, Total	**1.0**	0.50	mg/kg	1	09/07/17 17:26	
Beryllium, Total	ND	0.30	mg/kg	1	09/07/17 17:26	
Cadmium, Total	ND	0.20	mg/kg	1	09/07/17 17:26	
Chromium, Total	ND	1.0	mg/kg	1	09/07/17 17:26	
Cobalt, Total	ND	0.50	mg/kg	1	09/07/17 17:26	
Lead, Total	ND	0.50	mg/kg	1	09/07/17 17:26	
Molybdenum, Total	ND	0.50	mg/kg	1	09/07/17 17:26	
Nickel, Total	ND	1.0	mg/kg	1	09/07/17 17:26	
Selenium, Total	ND	0.50	mg/kg	1	09/07/17 17:26	
Silver, Total	ND	0.50	mg/kg	1	09/07/17 17:26	
Strontium, Total	**8.4**	0.50	mg/kg	1	09/07/17 17:26	
Thallium, Total	ND	0.50	mg/kg	1	09/07/17 17:26	
Vanadium, Total	ND	1.0	mg/kg	1	09/07/17 17:26	
Method: EPA 6020B	**Batch ID:** W7I0358	**Prepared:** 09/07/17 16:56				**Analyst:** MTT
Copper, Total	**7.8**	0.50	mg/kg	1	09/12/17 11:58	
Zinc, Total	**32**	5.0	mg/kg	1	09/12/17 11:58	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.40	mg/kg	1	09/28/17 23:46	M-02
Carbazole	ND	0.40	mg/kg	1	09/28/17 23:46	M-02
Phenol	ND	0.40	mg/kg	1	09/28/17 23:46	M-02
Pyridine	ND	0.81	mg/kg	1	09/28/17 23:46	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*29%*	*Conc: 1.17*	*32-103*		*09/28/17 23:46*	*M-02, S-GC*
2-Fluorobiphenyl	*45%*	*Conc: 0.912*	*36-107*		*09/28/17 23:46*	*M-02*
2-Fluorophenol	*37%*	*Conc: 1.50*	*33-119*		*09/28/17 23:46*	*M-02*
Nitrobenzene-d5	*30%*	*Conc: 0.602*	*36-114*		*09/28/17 23:46*	*M-02, S-GC*
Phenol-d5	*49%*	*Conc: 1.98*	*40-118*		*09/28/17 23:46*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/28/17 23:46*	*M-02, S-GC*

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Sample Results

(Continued)

Sample: Alm04-20170810-0745 — Sampled: 08/10/17 7:45 by A.Saceaux

7H11055-03 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM — **Batch ID:** W7I1085 — **Prepared:** 09/19/17 15:17 — **Analyst:** etn						
1-Methylnaphthalene	ND	60	ug/kg	1	09/27/17 03:08	M-02
2-Methylnaphthalene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Acenaphthene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Acenaphthylene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Anthracene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Benzo (a) anthracene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Benzo (a) pyrene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Benzo (b) fluoranthene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Benzo (g,h,i) perylene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Benzo (k) fluoranthene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Chrysene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Dibenzo (a,h) anthracene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Fluoranthene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Fluorene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Indeno (1,2,3-cd) pyrene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Naphthalene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Phenanthrene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Pyrene	ND	60	ug/kg	1	09/27/17 03:08	M-02
Surrogate(s)						
2-Fluorobiphenyl	*59%*	*Conc: 1180*	*0.1-109*		*09/27/17 03:08*	*M-02*
Nitrobenzene-d5	*42%*	*Conc: 854*	*0.1-107*		*09/27/17 03:08*	*M-02*
Terphenyl-d14	*26%*	*Conc: 528*	*28-128*		*09/27/17 03:08*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B — **Batch ID:** W7I0492 — **Prepared:** 09/11/17 11:10 — **Analyst:** dil						
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/11/17 17:44	M-04

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm04-20170810-0745 — Sampled: 08/10/17 7:45 by A.Saceaux

7H11055-03 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
2-Butanone	ND	1200	ug/kg	50	09/11/17 17:44	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/11/17 17:44	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
2-Hexanone	ND	1200	ug/kg	50	09/11/17 17:44	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Acetone	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Acrolein	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Benzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Bromobenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Bromoform	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Bromomethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Chloroethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Chloroform	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Chloromethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Dibromomethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Methylene chloride	ND	1200	ug/kg	50	09/11/17 17:44	M-04

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Sample Results

(Continued)

Sample: Alm04-20170810-0745 — Sampled: 08/10/17 7:45 by A.Saceaux

7H11055-03 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
o-Xylene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Styrene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Toluene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Trichloroethene	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/11/17 17:44	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*93%*	*Conc: 223*	*78-140*		*09/11/17 17:44*	*M-04*
4-Bromofluorobenzene	*97%*	*Conc: 232*	*85-116*		*09/11/17 17:44*	*M-04*
Dibromofluoromethane	*95%*	*Conc: 228*	*84-120*		*09/11/17 17:44*	*M-04*
Toluene-d8	*100%*	*Conc: 239*	*82-120*		*09/11/17 17:44*	*M-04*

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Sample Results

(Continued)

Sample: Alm03-20170810-0822 — Sampled: 08/10/17 8:22 by A.Saceaux

7H11055-04 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0517	**Prepared:** 09/11/17 14:21				**Analyst:** cam
Methanol	ND	420	mg/kg	20	09/13/17 16:35	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0919	**Prepared:** 08/15/17 14:53				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/07/17 15:23	
Method: EPA 6020B	**Batch ID:** W7H0925	**Prepared:** 08/15/17 15:04				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/07/17 15:21	
Arsenic, Total	ND	0.50	mg/kg	1	09/07/17 15:21	
Barium, Total	**2.1**	0.50	mg/kg	1	09/07/17 15:21	
Beryllium, Total	ND	0.30	mg/kg	1	09/07/17 15:21	
Cadmium, Total	ND	0.20	mg/kg	1	09/07/17 15:21	
Chromium, Total	ND	1.0	mg/kg	1	09/07/17 15:21	
Cobalt, Total	ND	0.50	mg/kg	1	09/07/17 15:21	
Lead, Total	ND	0.50	mg/kg	1	09/07/17 15:21	
Molybdenum, Total	ND	0.50	mg/kg	1	09/07/17 15:21	
Nickel, Total	ND	1.0	mg/kg	1	09/07/17 15:21	
Selenium, Total	ND	0.50	mg/kg	1	09/07/17 15:21	
Silver, Total	ND	0.50	mg/kg	1	09/07/17 15:21	
Strontium, Total	**6.8**	0.50	mg/kg	1	09/07/17 15:21	
Thallium, Total	ND	0.50	mg/kg	1	09/07/17 15:21	
Vanadium, Total	ND	1.0	mg/kg	1	09/07/17 15:21	
Method: EPA 6020B	**Batch ID:** W7I0358	**Prepared:** 09/07/17 16:56				**Analyst:** MTT
Copper, Total	**9.7**	0.50	mg/kg	1	09/12/17 12:01	
Zinc, Total	**27**	5.0	mg/kg	1	09/12/17 12:01	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	09/29/17 00:15	M-02
Carbazole	ND	0.45	mg/kg	1	09/29/17 00:15	M-02
Phenol	ND	0.45	mg/kg	1	09/29/17 00:15	M-02
Pyridine	ND	0.89	mg/kg	1	09/29/17 00:15	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*21%*	*Conc: 0.949*	*32-103*		*09/29/17 00:15*	*M-02, S-GC*
2-Fluorobiphenyl	*38%*	*Conc: 0.858*	*36-107*		*09/29/17 00:15*	*M-02*
2-Fluorophenol	*28%*	*Conc: 1.26*	*33-119*		*09/29/17 00:15*	*M-02, S-GC*
Nitrobenzene-d5	*31%*	*Conc: 0.701*	*36-114*		*09/29/17 00:15*	*M-02, S-GC*
Phenol-d5	*41%*	*Conc: 1.82*	*40-118*		*09/29/17 00:15*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*09/29/17 00:15*	*M-02, S-GC*

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Alm03-20170810-0822 — Sampled: 08/10/17 8:22 by A.Saceaux

7H11055-04 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7I1085	**Prepared:** 09/19/17 15:17				**Analyst:** etn
1-Methylnaphthalene	ND	67	ug/kg	1	09/27/17 03:41	M-02
2-Methylnaphthalene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Acenaphthene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Acenaphthylene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Anthracene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Benzo (a) anthracene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Benzo (a) pyrene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Benzo (b) fluoranthene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Benzo (g,h,i) perylene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Benzo (k) fluoranthene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Chrysene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Dibenzo (a,h) anthracene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Fluoranthene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Fluorene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Indeno (1,2,3-cd) pyrene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Naphthalene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Phenanthrene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Pyrene	ND	67	ug/kg	1	09/27/17 03:41	M-02
Surrogate(s)						
2-Fluorobiphenyl	*57%*	*Conc: 1270*	*0.1-109*		*09/27/17 03:41*	*M-02*
Nitrobenzene-d5	*46%*	*Conc: 1030*	*0.1-107*		*09/27/17 03:41*	*M-02*
Terphenyl-d14	*24%*	*Conc: 529*	*28-128*		*09/27/17 03:41*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7I0492	**Prepared:** 09/11/17 11:10				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/11/17 18:15	M-04

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Sample Results

(Continued)

Sample: Alm03-20170810-0822
7H11055-04 (Solid)

Sampled: 08/10/17 8:22 by A.Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
2-Butanone	ND	1200	ug/kg	50	09/11/17 18:15	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/11/17 18:15	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
2-Hexanone	ND	1200	ug/kg	50	09/11/17 18:15	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Acetone	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Acrolein	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Benzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Bromobenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Bromoform	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Bromomethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Chloroethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Chloroform	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Chloromethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Dibromomethane	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/11/17 18:15	M-04
Methylene chloride	ND	1200	ug/kg	50	09/11/17 18:15	M-04

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Sample Results

(Continued)

Sample: Alm03-20170810-0822 — Sampled: 08/10/17 8:22 by A.Saceaux

7H11055-04 (Solid)

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
n-Butylbenzene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
n-Propylbenzene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
o-Dichlorobenzene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
o-Xylene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
p-Dichlorobenzene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
p-Isopropyltoluene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
sec-Butylbenzene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
Styrene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
tert-Butylbenzene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
Tetrachloroethene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
Toluene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
Trichloroethene	ND		1200	ug/kg	50	09/11/17 18:15	M-04
Trichlorofluoromethane	ND		1200	ug/kg	50	09/11/17 18:15	M-04
Vinyl chloride	ND		1200	ug/kg	50	09/11/17 18:15	M-04
Surrogate(s)							
1,2-Dichloroethane-d4	*94%*	*Conc: 231*	*78-140*			*09/11/17 18:15*	*M-04*
4-Bromofluorobenzene	*97%*	*Conc: 238*	*85-116*			*09/11/17 18:15*	*M-04*
Dibromofluoromethane	*96%*	*Conc: 237*	*84-120*			*09/11/17 18:15*	*M-04*
Toluene-d8	*101%*	*Conc: 250*	*82-120*			*09/11/17 18:15*	*M-04*

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Sample Results

(Continued)

Sample: Alm02-20170810-0845 — Sampled: 08/10/17 8:45 by A.Saceaux

7H11055-05 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0517	**Prepared:** 09/11/17 14:21				**Analyst:** cam
Methanol	ND	380	mg/kg	20	09/14/17 09:22	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0919	**Prepared:** 08/15/17 14:53				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/07/17 15:26	
Method: EPA 6020B	**Batch ID:** W7H0925	**Prepared:** 08/15/17 15:04				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/07/17 17:33	
Arsenic, Total	ND	0.50	mg/kg	1	09/07/17 17:33	
Barium, Total	**1.2**	0.50	mg/kg	1	09/07/17 17:33	
Beryllium, Total	ND	0.30	mg/kg	1	09/07/17 17:33	
Cadmium, Total	ND	0.20	mg/kg	1	09/07/17 17:33	
Chromium, Total	ND	1.0	mg/kg	1	09/07/17 17:33	
Cobalt, Total	ND	0.50	mg/kg	1	09/07/17 17:33	
Lead, Total	ND	0.50	mg/kg	1	09/07/17 17:33	
Molybdenum, Total	ND	0.50	mg/kg	1	09/07/17 17:33	
Nickel, Total	ND	1.0	mg/kg	1	09/07/17 17:33	
Selenium, Total	ND	0.50	mg/kg	1	09/07/17 17:33	
Silver, Total	ND	0.50	mg/kg	1	09/07/17 17:33	
Strontium, Total	**6.0**	0.50	mg/kg	1	09/07/17 17:33	
Thallium, Total	ND	0.50	mg/kg	1	09/07/17 17:33	
Vanadium, Total	ND	1.0	mg/kg	1	09/07/17 17:33	
Method: EPA 6020B	**Batch ID:** W7I0358	**Prepared:** 09/07/17 16:56				**Analyst:** MTT
Copper, Total	**8.7**	0.50	mg/kg	1	09/12/17 12:05	
Zinc, Total	**27**	5.0	mg/kg	1	09/12/17 12:05	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	09/29/17 00:45	M-02
Carbazole	ND	0.45	mg/kg	1	09/29/17 00:45	M-02
Phenol	ND	0.45	mg/kg	1	09/29/17 00:45	M-02
Pyridine	ND	0.90	mg/kg	1	09/29/17 00:45	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*21% Conc: 0.931*	*32-103*			*09/29/17 00:45*	*M-02, S-GC*
2-Fluorobiphenyl	*43% Conc: 0.976*	*36-107*			*09/29/17 00:45*	*M-02*
2-Fluorophenol	*35% Conc: 1.57*	*33-119*			*09/29/17 00:45*	*M-02*
Nitrobenzene-d5	*33% Conc: 0.747*	*36-114*			*09/29/17 00:45*	*M-02, S-GC*
Phenol-d5	*47% Conc: 2.15*	*40-118*			*09/29/17 00:45*	*M-02*
Terphenyl-d14	*% Conc: 0.00*	*40-121*			*09/29/17 00:45*	*M-02, S-GC*

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Sample Results

(Continued)

Sample: Alm02-20170810-0845 — Sampled: 08/10/17 8:45 by A.Saceaux

7H11055-05 (Solid)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM — **Batch ID:** W7I1085 — **Prepared:** 09/19/17 15:17 — **Analyst:** etn						
1-Methylnaphthalene	ND	68	ug/kg	1	09/27/17 04:14	M-02
2-Methylnaphthalene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Acenaphthene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Acenaphthylene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Anthracene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Benzo (a) anthracene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Benzo (a) pyrene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Benzo (b) fluoranthene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Benzo (g,h,i) perylene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Benzo (k) fluoranthene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Chrysene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Dibenzo (a,h) anthracene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Fluoranthene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Fluorene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Indeno (1,2,3-cd) pyrene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Naphthalene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Phenanthrene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Pyrene	ND	68	ug/kg	1	09/27/17 04:14	M-02
Surrogate(s)						
2-Fluorobiphenyl	*59%*	*Conc: 1320*	*0.1-109*		*09/27/17 04:14*	*M-02*
Nitrobenzene-d5	*46%*	*Conc: 1030*	*0.1-107*		*09/27/17 04:14*	*M-02*
Terphenyl-d14	*26%*	*Conc: 593*	*28-128*		*09/27/17 04:14*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B — **Batch ID:** W7I0492 — **Prepared:** 09/11/17 11:10 — **Analyst:** dil						
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,1,1-Trichloroethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,1,2-Trichloroethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,1-Dichloroethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,1-Dichloroethene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,1-Dichloropropene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,2,3-Trichloropropane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	09/11/17 18:46	M-04

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Sample Results

(Continued)

Sample: Alm02-20170810-0845 — Sampled: 08/10/17 8:45 by A.Saceaux

7H11055-05 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,2-Dichloropropane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
1,3-Dichloropropane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
2,2-Dichloropropane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
2-Butanone	ND	1200	ug/kg	50	09/11/17 18:46	M-04
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	09/11/17 18:46	M-04
2-Chlorotoluene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
2-Hexanone	ND	1200	ug/kg	50	09/11/17 18:46	M-04
4-Chlorotoluene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
4-Methyl-2-pentanone	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Acetone	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Acrolein	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Acrylonitrile	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Benzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Bromobenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Bromochloromethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Bromodichloromethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Bromoform	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Bromomethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Carbon tetrachloride	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Chlorobenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Chloroethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Chloroform	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Chloromethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Dibromochloromethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Dibromomethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Ethylbenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Hexachlorobutadiene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Isopropylbenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
m,p-Xylene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
m-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Methylene chloride	ND	1200	ug/kg	50	09/11/17 18:46	M-04

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Sample Results

(Continued)

Sample: Alm02-20170810-0845 — Sampled: 08/10/17 8:45 by A.Saceaux

7H11055-05 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
n-Butylbenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
n-Propylbenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
o-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
o-Xylene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
p-Dichlorobenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
p-Isopropyltoluene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
sec-Butylbenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Styrene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
tert-Butylbenzene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Tetrachloroethene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Toluene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Trichloroethene	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Trichlorofluoromethane	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Vinyl chloride	ND	1200	ug/kg	50	09/11/17 18:46	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*92%*	*Conc: 229*	*78-140*		*09/11/17 18:46*	*M-04*
4-Bromofluorobenzene	*94%*	*Conc: 234*	*85-116*		*09/11/17 18:46*	*M-04*
Dibromofluoromethane	*95%*	*Conc: 235*	*84-120*		*09/11/17 18:46*	*M-04*
Toluene-d8	*99%*	*Conc: 247*	*82-120*		*09/11/17 18:46*	*M-04*

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Sample Results

(Continued)

Sample: Alm01-20170810-0915 — Sampled: 08/10/17 9:15 by A.Saceaux

7H11055-06 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7I0517	**Prepared:** 09/11/17 14:21				**Analyst:** cam
Methanol	ND	430	mg/kg	20	09/13/17 18:33	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7H0919	**Prepared:** 08/15/17 14:53				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	09/07/17 15:29	
Method: EPA 6020B	**Batch ID:** W7H0925	**Prepared:** 08/15/17 15:04				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	09/07/17 15:35	
Arsenic, Total	ND	0.50	mg/kg	1	09/07/17 15:35	
Barium, Total	**0.82**	0.50	mg/kg	1	09/07/17 15:35	
Beryllium, Total	ND	0.30	mg/kg	1	09/07/17 15:35	
Cadmium, Total	ND	0.20	mg/kg	1	09/07/17 15:35	
Chromium, Total	ND	1.0	mg/kg	1	09/07/17 15:35	
Cobalt, Total	ND	0.50	mg/kg	1	09/07/17 15:35	
Lead, Total	ND	0.50	mg/kg	1	09/07/17 15:35	
Molybdenum, Total	ND	0.50	mg/kg	1	09/07/17 15:35	
Nickel, Total	ND	1.0	mg/kg	1	09/07/17 15:35	
Selenium, Total	ND	0.50	mg/kg	1	09/07/17 15:35	
Silver, Total	ND	0.50	mg/kg	1	09/07/17 15:35	
Strontium, Total	**6.2**	0.50	mg/kg	1	09/07/17 15:35	
Thallium, Total	ND	0.50	mg/kg	1	09/07/17 15:35	
Vanadium, Total	ND	1.0	mg/kg	1	09/07/17 15:35	
Method: EPA 6020B	**Batch ID:** W7I0358	**Prepared:** 09/07/17 16:56				**Analyst:** MTT
Copper, Total	**5.6**	0.50	mg/kg	1	09/12/17 12:08	
Zinc, Total	**31**	5.0	mg/kg	1	09/12/17 12:08	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7I1084	**Prepared:** 09/19/17 15:14				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.44	mg/kg	1	09/29/17 01:15	M-02
Carbazole	ND	0.44	mg/kg	1	09/29/17 01:15	M-02
Phenol	ND	0.44	mg/kg	1	09/29/17 01:15	M-02
Pyridine	ND	0.88	mg/kg	1	09/29/17 01:15	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*17% Conc: 0.763*	*32-103*			*09/29/17 01:15*	*M-02, S-GC*
2-Fluorobiphenyl	*45% Conc: 0.990*	*36-107*			*09/29/17 01:15*	*M-02*
2-Fluorophenol	*35% Conc: 1.56*	*33-119*			*09/29/17 01:15*	*M-02*
Nitrobenzene-d5	*29% Conc: 0.634*	*36-114*			*09/29/17 01:15*	*M-02, S-GC*
Phenol-d5	*44% Conc: 1.95*	*40-118*			*09/29/17 01:15*	*M-02*
Terphenyl-d14	*% Conc: 0.00*	*40-121*			*09/29/17 01:15*	*M-02, S-GC*

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Sample Results

(Continued)

Sample: Alm01-20170810-0915 — Sampled: 08/10/17 9:15 by A.Saceaux

7H11055-06 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM — **Batch ID:** W7I1085 — **Prepared:** 09/19/17 15:17 — **Analyst:** etn						
1-Methylnaphthalene	ND	66	ug/kg	1	09/27/17 04:48	M-02
2-Methylnaphthalene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Acenaphthene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Acenaphthylene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Anthracene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Benzo (a) anthracene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Benzo (a) pyrene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Benzo (b) fluoranthene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Benzo (g,h,i) perylene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Benzo (k) fluoranthene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Chrysene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Dibenzo (a,h) anthracene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Fluoranthene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Fluorene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Indeno (1,2,3-cd) pyrene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Naphthalene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Phenanthrene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Pyrene	ND	66	ug/kg	1	09/27/17 04:48	M-02
Surrogate(s)						
2-Fluorobiphenyl	*57%*	*Conc: 1260*	*0.1-109*		*09/27/17 04:48*	*M-02*
Nitrobenzene-d5	*44%*	*Conc: 981*	*0.1-107*		*09/27/17 04:48*	*M-02*
Terphenyl-d14	*25%*	*Conc: 544*	*28-128*		*09/27/17 04:48*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B — **Batch ID:** W7I0492 — **Prepared:** 09/11/17 11:10 — **Analyst:** dil						
1,1,1,2-Tetrachloroethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,1,1-Trichloroethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,1,2,2-Tetrachloroethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,1,2-Trichloroethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,1-Dichloroethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,1-Dichloroethene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,1-Dichloropropene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,2,3-Trichlorobenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,2,3-Trichloropropane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,2,4-Trichlorobenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,2,4-Trimethylbenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,2-Dibromo-3-chloropropane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,2-Dibromoethane (EDB)	ND	1100	ug/kg	50	09/11/17 19:17	M-04

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Sample Results

(Continued)

Sample: Alm01-20170810-0915 — Sampled: 08/10/17 9:15 by A.Saceaux

7H11055-06 (Solid)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
1,2-Dichloroethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,2-Dichloropropane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,3,5-Trimethylbenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
1,3-Dichloropropane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
2,2-Dichloropropane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
2-Butanone	ND	1100	ug/kg	50	09/11/17 19:17	M-04
2-Chloroethyl vinyl ether	ND	1100	ug/kg	50	09/11/17 19:17	M-04
2-Chlorotoluene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
2-Hexanone	ND	1100	ug/kg	50	09/11/17 19:17	M-04
4-Chlorotoluene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
4-Methyl-2-pentanone	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Acetone	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Acrolein	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Acrylonitrile	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Benzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Bromobenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Bromochloromethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Bromodichloromethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Bromoform	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Bromomethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Carbon tetrachloride	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Chlorobenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Chloroethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Chloroform	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Chloromethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
cis-1,2-Dichloroethene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
cis-1,3-Dichloropropene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Dibromochloromethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Dibromomethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Dichlorodifluoromethane (Freon 12)	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Ethylbenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Hexachlorobutadiene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Isopropylbenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
m,p-Xylene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
m-Dichlorobenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Methyl tert-butyl ether (MTBE)	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Methylene chloride	ND	1100	ug/kg	50	09/11/17 19:17	M-04

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Sample Results

(Continued)

Sample: Alm01-20170810-0915 — Sampled: 08/10/17 9:15 by A.Saceaux

7H11055-06 (Solid) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
n-Butylbenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
n-Propylbenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
o-Dichlorobenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
o-Xylene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
p-Dichlorobenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
p-Isopropyltoluene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
sec-Butylbenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Styrene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
tert-Butylbenzene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Tetrachloroethene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Toluene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
trans-1,2-Dichloroethene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
trans-1,3-Dichloropropene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Trichloroethene	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Trichlorofluoromethane	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Vinyl chloride	ND	1100	ug/kg	50	09/11/17 19:17	M-04
Surrogate(s)						
1,2-Dichloroethane-d4	*94%*	*Conc: 214*	*78-140*		*09/11/17 19:17*	*M-04*
4-Bromofluorobenzene	*93%*	*Conc: 213*	*85-116*		*09/11/17 19:17*	*M-04*
Dibromofluoromethane	*96%*	*Conc: 219*	*84-120*		*09/11/17 19:17*	*M-04*
Toluene-d8	*99%*	*Conc: 226*	*82-120*		*09/11/17 19:17*	*M-04*

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Quality Control Results

Alcohols by GC/FID

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0517 - EPA 8015D										
Blank (W7I0517-BLK1)				**Prepared: 09/11/17**	**Analyzed: 09/13/17**					
Methanol	ND	10	mg/kg							
LCS (W7I0517-BS1)				**Prepared: 09/11/17**	**Analyzed: 09/13/17**					
Methanol	110	10	mg/kg	100		110	54-139			
Matrix Spike (W7I0517-MS1)	**Source: 7H11055-01**			**Prepared: 09/11/17**	**Analyzed: 09/13/17**					
Methanol	5440	440	mg/kg	4440	ND	122	16-166			M-02, M-04
Matrix Spike Dup (W7I0517-MSD1)	**Source: 7H11055-01**			**Prepared: 09/11/17**	**Analyzed: 09/13/17**					
Methanol	5340	450	mg/kg	4500	ND	118	16-166	2	25	M-02, M-04
Batch: W7I0962 - EPA 8015D										
Blank (W7I0962-BLK1)				**Prepared: 09/18/17**	**Analyzed: 10/03/17**					
Methanol	ND	10	mg/kg							
LCS (W7I0962-BS1)				**Prepared: 09/18/17**	**Analyzed: 10/03/17**					
Methanol	31.8	10	mg/kg	50.0		64	54-139			
Matrix Spike (W7I0962-MS1)	**Source: 7H10101-02RE1**			**Prepared: 09/18/17**	**Analyzed: 10/03/17**					
Methanol	1340	410	mg/kg	2050	ND	65	16-166			M-02, M-04
Matrix Spike Dup (W7I0962-MSD1)	**Source: 7H10101-02RE1**			**Prepared: 09/18/17**	**Analyzed: 10/04/17**					
Methanol	1480	410	mg/kg	2030	ND	73	16-166	10	25	M-02, M-04

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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7H0919 - EPA 6010B										
Blank (W7H0919-BLK1)				**Prepared: 08/15/17 Analyzed: 09/07/17**						
Lithium, Total	ND	5.0	mg/kg							
LCS (W7H0919-BS1)				**Prepared: 08/15/17 Analyzed: 09/07/17**						
Lithium, Total	49.6	5.0	mg/kg	50.0		99	80-120			
Matrix Spike (W7H0919-MS1)	**Source: 7H11055-01**			**Prepared: 08/15/17 Analyzed: 09/07/17**						
Lithium, Total	55.1	5.0	mg/kg	47.9	ND	115	75-125			
Matrix Spike Dup (W7H0919-MSD1)	**Source: 7H11055-01**			**Prepared: 08/15/17 Analyzed: 09/07/17**						
Lithium, Total	42.8	5.0	mg/kg	48.1	ND	89	75-125	25	20	QR-04
Batch: W7H0925 - EPA 6020B										
Blank (W7H0925-BLK1)				**Prepared: 08/15/17 Analyzed: 09/07/17**						
Antimony, Total	ND	0.50	mg/kg							
Arsenic, Total	ND	0.50	mg/kg							
Barium, Total	ND	0.50	mg/kg							
Beryllium, Total	ND	0.30	mg/kg							
Cadmium, Total	ND	0.20	mg/kg							
Chromium, Total	ND	1.0	mg/kg							
Cobalt, Total	ND	0.50	mg/kg							
Lead, Total	ND	0.50	mg/kg							
Molybdenum, Total	ND	0.50	mg/kg							
Nickel, Total	ND	1.0	mg/kg							
Selenium, Total	ND	0.50	mg/kg							
Silver, Total	ND	0.50	mg/kg							
Strontium, Total	ND	0.50	mg/kg							
Thallium, Total	ND	0.50	mg/kg							
Vanadium, Total	ND	1.0	mg/kg							
LCS (W7H0925-BS1)				**Prepared: 08/15/17 Analyzed: 09/07/17**						
Antimony, Total	50.3	0.50	mg/kg	50.0		101	80-120			
Arsenic, Total	51.8	0.50	mg/kg	50.0		104	80-120			
Barium, Total	50.5	0.50	mg/kg	50.0		101	80-120			
Beryllium, Total	50.9	0.30	mg/kg	50.0		102	80-120			
Cadmium, Total	50.7	0.20	mg/kg	50.0		101	80-120			
Chromium, Total	51.0	1.0	mg/kg	50.0		102	80-120			
Cobalt, Total	51.8	0.50	mg/kg	50.0		104	80-120			
Lead, Total	51.9	0.50	mg/kg	50.0		104	80-120			
Molybdenum, Total	48.1	0.50	mg/kg	50.0		96	80-120			
Nickel, Total	52.8	1.0	mg/kg	50.0		106	80-120			
Selenium, Total	51.1	0.50	mg/kg	50.0		102	80-120			
Silver, Total	51.3	0.50	mg/kg	50.0		103	80-120			

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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7H0925 - EPA 6020B (Continued)										
LCS (W7H0925-BS1)				**Prepared: 08/15/17 Analyzed: 09/07/17**						
Strontium, Total	102	0.50	mg/kg	100		102	80-120			
Thallium, Total	50.6	0.50	mg/kg	50.0		101	80-120			
Vanadium, Total	49.8	1.0	mg/kg	50.0		100	80-120			
Matrix Spike (W7H0925-MS1)	**Source: 7H11055-02**			**Prepared: 08/15/17 Analyzed: 09/07/17**						
Antimony, Total	47.3	0.50	mg/kg	50.0	ND	94	75-125			
Arsenic, Total	51.4	0.50	mg/kg	50.0	ND	103	75-125			
Barium, Total	49.4	0.50	mg/kg	50.0	1.43	96	75-125			
Beryllium, Total	48.9	0.30	mg/kg	50.0	ND	98	75-125			
Cadmium, Total	48.4	0.20	mg/kg	50.0	ND	97	75-125			
Chromium, Total	47.6	1.0	mg/kg	50.0	ND	95	75-125			
Cobalt, Total	48.4	0.50	mg/kg	50.0	ND	97	75-125			
Lead, Total	48.8	0.50	mg/kg	50.0	ND	98	75-125			
Molybdenum, Total	45.9	0.50	mg/kg	50.0	0.392	91	75-125			
Nickel, Total	50.3	1.0	mg/kg	50.0	0.813	99	75-125			
Selenium, Total	52.2	0.50	mg/kg	50.0	ND	104	75-125			
Silver, Total	48.3	0.50	mg/kg	50.0	ND	97	75-125			
Strontium, Total	106	0.50	mg/kg	100	5.46	100	75-125			
Thallium, Total	47.9	0.50	mg/kg	50.0	ND	96	75-125			
Vanadium, Total	47.2	1.0	mg/kg	50.0	ND	94	75-125			
Matrix Spike Dup (W7H0925-MSD1)	**Source: 7H11055-02**			**Prepared: 08/15/17 Analyzed: 09/07/17**						
Antimony, Total	50.2	0.50	mg/kg	50.3	ND	100	75-125	6	20	
Arsenic, Total	52.8	0.50	mg/kg	50.3	ND	105	75-125	3	20	
Barium, Total	51.5	0.50	mg/kg	50.3	1.43	99	75-125	4	20	
Beryllium, Total	51.1	0.30	mg/kg	50.3	ND	101	75-125	4	20	
Cadmium, Total	49.6	0.20	mg/kg	50.3	ND	98	75-125	2	20	
Chromium, Total	50.4	1.0	mg/kg	50.3	ND	100	75-125	6	20	
Cobalt, Total	49.8	0.50	mg/kg	50.3	ND	99	75-125	3	20	
Lead, Total	50.7	0.50	mg/kg	50.3	ND	101	75-125	4	20	
Molybdenum, Total	47.2	0.50	mg/kg	50.3	0.392	93	75-125	3	20	
Nickel, Total	52.1	1.0	mg/kg	50.3	0.813	102	75-125	4	20	
Selenium, Total	55.1	0.50	mg/kg	50.3	ND	110	75-125	6	20	
Silver, Total	49.2	0.50	mg/kg	50.3	ND	98	75-125	2	20	
Strontium, Total	106	0.50	mg/kg	101	5.46	100	75-125	0.7	20	
Thallium, Total	49.5	0.50	mg/kg	50.3	ND	98	75-125	3	20	
Vanadium, Total	48.6	1.0	mg/kg	50.3	ND	97	75-125	3	20	
Batch: W7I0358 - EPA 6020B										

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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0358 - EPA 6020B (Continued)										
Blank (W7I0358-BLK1)				**Prepared: 09/07/17 Analyzed: 09/12/17**						
Copper, Total	ND	0.50	mg/kg							
Zinc, Total	ND	5.0	mg/kg							
LCS (W7I0358-BS1)				**Prepared: 09/07/17 Analyzed: 09/12/17**						
Copper, Total	50.3	0.50	mg/kg	50.0		101	80-120			
Zinc, Total	52.9	5.0	mg/kg	50.0		106	80-120			
Matrix Spike (W7I0358-MS1)	**Source: 7H11055-02**			**Prepared: 09/07/17 Analyzed: 09/12/17**						
Copper, Total	59.7	0.50	mg/kg	49.7	8.38	103	75-125			
Zinc, Total	80.9	5.0	mg/kg	49.7	22.6	117	75-125			
Matrix Spike Dup (W7I0358-MSD1)	**Source: 7H11055-02**			**Prepared: 09/07/17 Analyzed: 09/12/17**						
Copper, Total	56.5	0.50	mg/kg	49.0	8.38	98	75-125	6	20	
Zinc, Total	75.1	5.0	mg/kg	49.0	22.6	107	75-125	7	20	

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1084 - EPA 8270C										
Blank (W7I1084-BLK1)				**Prepared: 09/19/17 Analyzed: 09/28/17**						
Bis(2-ethylhexyl)phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surrogate(s)										
2,4,6-Tribromophenol	*0.252*		*mg/kg*	*0.500*		*50*	*32-103*			
2-Fluorobiphenyl	*0.150*		*mg/kg*	*0.250*		*60*	*36-107*			
2-Fluorophenol	*0.256*		*mg/kg*	*0.500*		*51*	*33-119*			
Nitrobenzene-d5	*0.177*		*mg/kg*	*0.250*		*71*	*36-114*			
Phenol-d5	*0.289*		*mg/kg*	*0.500*		*58*	*40-118*			
Terphenyl-d14	*0.172*		*mg/kg*	*0.250*		*69*	*40-121*			
LCS (W7I1084-BS1)				**Prepared: 09/19/17 Analyzed: 09/28/17**						
1,2,4-Trichlorobenzene	0.822	0.050	mg/kg	1.25		66	32-111			
1,4-Dichlorobenzene	0.690	0.050	mg/kg	1.25		55	30-111			
2,4-Dinitrotoluene	0.905	0.050	mg/kg	1.25		72	49-119			
2-Chlorophenol	0.670	0.050	mg/kg	1.25		54	31-111			
4-Chloro-3-methylphenol	0.888	0.050	mg/kg	1.25		71	27-138			
4-Nitrophenol	0.713	0.050	mg/kg	1.25		57	35-109			
Acenaphthene	0.956	0.050	mg/kg	1.25		76	44-118			
N-Nitrosodi-n-propylamine	0.678	0.050	mg/kg	1.25		54	31-128			
Pentachlorophenol	0.895	0.050	mg/kg	1.25		72	11-114			
Phenol	0.650	0.050	mg/kg	1.25		52	33-106			
Pyrene	1.12	0.050	mg/kg	1.25		89	56-127			
Surrogate(s)										
2,4,6-Tribromophenol	*2.28*		*mg/kg*	*2.50*		*91*	*32-103*			
2-Fluorobiphenyl	*0.960*		*mg/kg*	*1.25*		*77*	*36-107*			
2-Fluorophenol	*1.39*		*mg/kg*	*2.50*		*56*	*33-119*			
Nitrobenzene-d5	*0.665*		*mg/kg*	*1.25*		*53*	*36-114*			
Phenol-d5	*1.60*		*mg/kg*	*2.50*		*64*	*40-118*			
Terphenyl-d14	*1.10*		*mg/kg*	*1.25*		*88*	*40-121*			
Matrix Spike (W7I1084-MS1)	**Source: 7H10101-07**			**Prepared: 09/19/17 Analyzed: 09/28/17**						
1,2,4-Trichlorobenzene	5.34	0.47	mg/kg	11.8	ND	45	29-108			M-02
1,4-Dichlorobenzene	4.33	0.47	mg/kg	11.8	ND	37	37-96			M-02
2,4-Dinitrotoluene	5.76	0.47	mg/kg	11.8	ND	49	45-106			M-02
2-Chlorophenol	5.78	0.47	mg/kg	11.8	ND	49	35-97			M-02
4-Chloro-3-methylphenol	6.42	0.47	mg/kg	11.8	ND	54	38-114			M-02
4-Nitrophenol	6.56	0.47	mg/kg	11.8	ND	55	28-115			M-02

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1084 - EPA 8270C (Continued)										
Matrix Spike (W7I1084-MS1)	**Source: 7H10101-07**			**Prepared: 09/19/17**	**Analyzed: 09/28/17**					
Acenaphthene	5.64	0.47	mg/kg	11.8	ND	48	49-103			M-02, MS-05
N-Nitrosodi-n-propylamine	5.31	0.47	mg/kg	11.8	ND	45	31-120			M-02
Pentachlorophenol	11.3	0.47	mg/kg	11.8	0.222	94	23-114			M-02
Phenol	5.78	0.47	mg/kg	11.8	ND	49	31-102			M-02
Pyrene	5.37	0.47	mg/kg	11.8	ND	45	47-122			M-02, MS-05
Surrogate(s)										
2,4,6-Tribromophenol	*20.3*		*mg/kg*	*23.7*		*86*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.99*		*mg/kg*	*11.8*		*67*	*36-107*			*M-02*
2-Fluorophenol	*13.4*		*mg/kg*	*23.7*		*57*	*33-119*			*M-02*
Nitrobenzene-d5	*6.29*		*mg/kg*	*11.8*		*53*	*36-114*			*M-02*
Phenol-d5	*14.9*		*mg/kg*	*23.7*		*63*	*40-118*			*M-02*
Terphenyl-d14	*6.66*		*mg/kg*	*11.8*		*56*	*40-121*			*M-02*
Matrix Spike Dup (W7I1084-MSD1)	**Source: 7H10101-07**			**Prepared: 09/19/17**	**Analyzed: 09/28/17**					
1,2,4-Trichlorobenzene	5.45	0.47	mg/kg	11.6	ND	47	29-108	2	30	M-02
1,4-Dichlorobenzene	4.55	0.47	mg/kg	11.6	ND	39	37-96	5	30	M-02
2,4-Dinitrotoluene	6.18	0.47	mg/kg	11.6	ND	53	45-106	7	30	M-02
2-Chlorophenol	5.88	0.47	mg/kg	11.6	ND	51	35-97	2	30	M-02
4-Chloro-3-methylphenol	6.58	0.47	mg/kg	11.6	ND	57	38-114	3	30	M-02
4-Nitrophenol	6.64	0.47	mg/kg	11.6	ND	57	28-115	1	30	M-02
Acenaphthene	6.14	0.47	mg/kg	11.6	ND	53	49-103	9	30	M-02
N-Nitrosodi-n-propylamine	5.51	0.47	mg/kg	11.6	ND	47	31-120	4	30	M-02
Pentachlorophenol	10.7	0.47	mg/kg	11.6	0.222	90	23-114	6	30	M-02
Phenol	5.81	0.47	mg/kg	11.6	ND	50	31-102	0.4	30	M-02
Pyrene	2.31	0.47	mg/kg	11.6	ND	20	47-122	80	30	M-02, MS-05
Surrogate(s)										
2,4,6-Tribromophenol	*18.9*		*mg/kg*	*23.3*		*81*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.39*		*mg/kg*	*11.6*		*64*	*36-107*			*M-02*
2-Fluorophenol	*12.9*		*mg/kg*	*23.3*		*56*	*33-119*			*M-02*
Nitrobenzene-d5	*5.94*		*mg/kg*	*11.6*		*51*	*36-114*			*M-02*
Phenol-d5	*14.4*		*mg/kg*	*23.3*		*62*	*40-118*			*M-02*
Terphenyl-d14	*4.09*		*mg/kg*	*11.6*		*35*	*40-121*			*M-02, S-GC*

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Quality Control Results

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Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1085 - EPA 8270C SIM										
Blank (W7I1085-BLK1)				**Prepared: 09/19/17 Analyzed: 09/26/17**						
1-Methylnaphthalene	ND	5.0	ug/kg							
2-Methylnaphthalene	ND	5.0	ug/kg							
Acenaphthene	ND	5.0	ug/kg							
Acenaphthylene	ND	5.0	ug/kg							
Anthracene	ND	5.0	ug/kg							
Benzo (a) anthracene	ND	5.0	ug/kg							
Benzo (a) pyrene	ND	5.0	ug/kg							
Benzo (b) fluoranthene	ND	5.0	ug/kg							
Benzo (g,h,i) perylene	ND	5.0	ug/kg							
Benzo (k) fluoranthene	ND	5.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo (a,h) anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno (1,2,3-cd) pyrene	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate(s)										
2-Fluorobiphenyl	*122*		*ug/kg*	*167*		*73*	*0.1-109*			
Nitrobenzene-d5	*94.6*		*ug/kg*	*167*		*57*	*0.1-107*			
Terphenyl-d14	*163*		*ug/kg*	*167*		*98*	*28-128*			
LCS (W7I1085-BS1)				**Prepared: 09/19/17 Analyzed: 09/26/17**						
Acenaphthene	286	5.0	ug/kg	333		86	27-103			
Acenaphthylene	308	5.0	ug/kg	333		93	29-112			
Anthracene	296	5.0	ug/kg	333		89	31-119			
Benzo (a) anthracene	376	5.0	ug/kg	333		113	26-132			
Benzo (a) pyrene	297	5.0	ug/kg	333		89	19-146			
Benzo (b) fluoranthene	301	5.0	ug/kg	333		90	40-120			
Benzo (g,h,i) perylene	251	5.0	ug/kg	333		75	18-135			
Benzo (k) fluoranthene	281	5.0	ug/kg	333		84	40-120			
Chrysene	273	5.0	ug/kg	333		82	40-120			
Dibenzo (a,h) anthracene	284	5.0	ug/kg	333		85	20-137			
Fluoranthene	340	5.0	ug/kg	333		102	33-123			
Fluorene	297	5.0	ug/kg	333		89	33-106			
Indeno (1,2,3-cd) pyrene	279	5.0	ug/kg	333		84	16-136			
Naphthalene	264	5.0	ug/kg	333		79	22-98			

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Quality Control Results

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1085 - EPA 8270C SIM (Continued)										
LCS (W7I1085-BS1)				**Prepared: 09/19/17 Analyzed: 09/26/17**						
Phenanthrene	303	5.0	ug/kg	333		91	32-110			
Pyrene	353	5.0	ug/kg	333		106	34-122			
Surrogate(s)										
2-Fluorobiphenyl	*127*		*ug/kg*	*167*		*76*	*0.1-109*			
Nitrobenzene-d5	*99.9*		*ug/kg*	*167*		*60*	*0.1-107*			
Terphenyl-d14	*174*		*ug/kg*	*167*		*105*	*28-128*			
Matrix Spike (W7I1085-MS1)	**Source: 7H10101-07**			**Prepared: 09/19/17 Analyzed: 09/26/17**						
Acenaphthene	3400	68	ug/kg	4520	ND	75	5-115			M-02
Acenaphthylene	3610	68	ug/kg	4520	ND	80	8-111			M-02
Anthracene	3650	68	ug/kg	4520	ND	81	3-132			M-02
Benzo (a) anthracene	2120	68	ug/kg	4520	ND	47	14-125			M-02
Benzo (a) pyrene	1610	68	ug/kg	4520	ND	36	2-138			M-02
Benzo (b) fluoranthene	1920	68	ug/kg	4520	ND	42	20-150			M-02
Benzo (g,h,i) perylene	1510	68	ug/kg	4520	ND	33	9-129			M-02
Benzo (k) fluoranthene	1740	68	ug/kg	4520	ND	38	20-150			M-02
Chrysene	3240	68	ug/kg	4520	ND	72	20-150			M-02
Dibenzo (a,h) anthracene	1690	68	ug/kg	4520	ND	37	10-144			M-02
Fluoranthene	3340	68	ug/kg	4520	ND	74	11-127			M-02
Fluorene	3680	68	ug/kg	4520	ND	81	4-125			M-02
Indeno (1,2,3-cd) pyrene	1810	68	ug/kg	4520	ND	40	3-137			M-02
Naphthalene	2650	68	ug/kg	4520	ND	59	0.1-117			M-02
Phenanthrene	3710	68	ug/kg	4520	ND	82	10-122			M-02
Pyrene	2460	68	ug/kg	4520	ND	54	10-128			M-02
Surrogate(s)										
2-Fluorobiphenyl	*1380*		*ug/kg*	*2260*		*61*	*0.1-109*			*M-02*
Nitrobenzene-d5	*1050*		*ug/kg*	*2260*		*46*	*0.1-107*			*M-02*
Terphenyl-d14	*1580*		*ug/kg*	*2260*		*70*	*28-128*			*M-02*
Matrix Spike Dup (W7I1085-MSD1)	**Source: 7H10101-07**			**Prepared: 09/19/17 Analyzed: 09/26/17**						
Acenaphthene	3380	69	ug/kg	4630	ND	73	5-115	0.7	30	M-02
Acenaphthylene	3600	69	ug/kg	4630	ND	78	8-111	0.1	30	M-02
Anthracene	3780	69	ug/kg	4630	ND	82	3-132	3	30	M-02
Benzo (a) anthracene	1330	69	ug/kg	4630	ND	29	14-125	45	30	M-02, MS-05
Benzo (a) pyrene	1300	69	ug/kg	4630	ND	28	2-138	21	30	M-02
Benzo (b) fluoranthene	1590	69	ug/kg	4630	ND	34	20-150	19	30	M-02
Benzo (g,h,i) perylene	2000	69	ug/kg	4630	ND	43	9-129	28	30	M-02
Benzo (k) fluoranthene	1430	69	ug/kg	4630	ND	31	20-150	20	30	M-02
Chrysene	3360	69	ug/kg	4630	ND	73	20-150	4	30	M-02

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Quality Control Results

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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I1085 - EPA 8270C SIM (Continued)										
Matrix Spike Dup (W7I1085-MSD1)	**Source: 7H10101-07**			**Prepared: 09/19/17**	**Analyzed: 09/26/17**					
Dibenzo (a,h) anthracene	2170	69	ug/kg	4630	ND	47	10-144	25	30	M-02
Fluoranthene	2920	69	ug/kg	4630	ND	63	11-127	13	30	M-02
Fluorene	3700	69	ug/kg	4630	ND	80	4-125	0.7	30	M-02
Indeno (1,2,3-cd) pyrene	2190	69	ug/kg	4630	ND	47	3-137	19	30	M-02
Naphthalene	2590	69	ug/kg	4630	ND	56	0.1-117	2	30	M-02
Phenanthrene	3860	69	ug/kg	4630	ND	83	10-122	4	30	M-02
Pyrene	2060	69	ug/kg	4630	ND	45	10-128	18	30	M-02
Surrogate(s)										
2-Fluorobiphenyl	*1470*		*ug/kg*	*2310*		*63*	*0.1-109*			*M-02*
Nitrobenzene-d5	*1060*		*ug/kg*	*2310*		*46*	*0.1-107*			*M-02*
Terphenyl-d14	*1260*		*ug/kg*	*2310*		*54*	*28-128*			*M-02*

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Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0492 - EPA 8260B										
Blank (W7I0492-BLK1)				**Prepared & Analyzed: 09/11/17**						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2-Trichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
1,1-Dichloropropene	ND	5.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg							
1,2-Dichloroethane	ND	5.0	ug/kg							
1,2-Dichloropropane	ND	5.0	ug/kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/kg							
1,3-Dichloropropane	ND	5.0	ug/kg							
2,2-Dichloropropane	ND	5.0	ug/kg							
2-Butanone	ND	5.0	ug/kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
2-Hexanone	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
4-Methyl-2-pentanone	ND	5.0	ug/kg							
Acetone	ND	5.0	ug/kg							
Acrolein	ND	5.0	ug/kg							
Acrylonitrile	ND	5.0	ug/kg							
Benzene	ND	5.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	5.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	5.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	5.0	ug/kg							

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0492 - EPA 8260B (Continued)										
Blank (W7I0492-BLK1)				**Prepared & Analyzed: 09/11/17**						
Chloromethane	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	5.0	ug/kg							
cis-1,3-Dichloropropene	ND	5.0	ug/kg							
Dibromochloromethane	ND	5.0	ug/kg							
Dibromomethane	ND	5.0	ug/kg							
Dichlorodifluoromethane (Freon 12)	ND	5.0	ug/kg							
Ethylbenzene	ND	5.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	5.0	ug/kg							
m,p-Xylene	ND	5.0	ug/kg							
m-Dichlorobenzene	ND	5.0	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
n-Propylbenzene	ND	5.0	ug/kg							
o-Dichlorobenzene	ND	5.0	ug/kg							
o-Xylene	ND	5.0	ug/kg							
p-Dichlorobenzene	ND	5.0	ug/kg							
p-Isopropyltoluene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
Styrene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Tetrachloroethene	ND	5.0	ug/kg							
Toluene	ND	5.0	ug/kg							
trans-1,2-Dichloroethene	ND	5.0	ug/kg							
trans-1,3-Dichloropropene	ND	5.0	ug/kg							
Trichloroethene	ND	5.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
Surrogate(s)										
1,2-Dichloroethane-d4		*47.6*	*ug/kg*	*50.0*		*95*	*78-140*			
4-Bromofluorobenzene		*47.5*	*ug/kg*	*50.0*		*95*	*85-116*			
Dibromofluoromethane		*49.3*	*ug/kg*	*50.0*		*99*	*84-120*			
Toluene-d8		*48.2*	*ug/kg*	*50.0*		*96*	*82-120*			
LCS (W7I0492-BS1)				**Prepared & Analyzed: 09/11/17**						
1,1,1,2-Tetrachloroethane	45.9	5.0	ug/kg	50.0		92	81-120			

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0492 - EPA 8260B (Continued)										
LCS (W7I0492-BS1)				**Prepared & Analyzed: 09/11/17**						
1,1,1-Trichloroethane	44.8	5.0	ug/kg	50.0		90	78-125			
1,1,2,2-Tetrachloroethane	43.2	5.0	ug/kg	50.0		86	67-115			
1,1,2-Trichloroethane	44.7	5.0	ug/kg	50.0		89	85-121			
1,1-Dichloroethane	45.2	5.0	ug/kg	50.0		90	84-118			
1,1-Dichloroethene	46.0	5.0	ug/kg	50.0		92	80-123			
1,1-Dichloropropene	47.1	5.0	ug/kg	50.0		94	79-128			
1,2,3-Trichlorobenzene	45.2	5.0	ug/kg	50.0		90	36-201			
1,2,3-Trichloropropane	41.6	5.0	ug/kg	50.0		83	65-115			
1,2,4-Trichlorobenzene	47.4	5.0	ug/kg	50.0		95	69-143			
1,2,4-Trimethylbenzene	46.7	5.0	ug/kg	50.0		93	70-119			
1,2-Dibromo-3-chloropropane	41.2	5.0	ug/kg	50.0		82	62-140			
1,2-Dibromoethane (EDB)	45.7	5.0	ug/kg	50.0		91	86-125			
1,2-Dichloroethane	45.4	5.0	ug/kg	50.0		91	74-123			
1,2-Dichloropropane	46.0	5.0	ug/kg	50.0		92	83-122			
1,3,5-Trimethylbenzene	45.7	5.0	ug/kg	50.0		91	66-122			
1,3-Dichloropropane	47.1	5.0	ug/kg	50.0		94	85-122			
2,2-Dichloropropane	47.2	5.0	ug/kg	50.0		94	78-124			
2-Butanone	42.3	5.0	ug/kg	50.0		85	65-139			
2-Chloroethyl vinyl ether	77.2	5.0	ug/kg	50.0		154	62-134			Q-08
2-Chlorotoluene	45.4	5.0	ug/kg	50.0		91	65-118			
2-Hexanone	43.5	5.0	ug/kg	50.0		87	72-138			
4-Chlorotoluene	46.2	5.0	ug/kg	50.0		92	71-116			
4-Methyl-2-pentanone	40.9	5.0	ug/kg	50.0		82	70-133			
Acetone	36.8	5.0	ug/kg	50.0		74	57-138			
Acrolein	44.9	5.0	ug/kg	50.0		90	57-139			
Acrylonitrile	53.8	5.0	ug/kg	50.0		108	78-124			
Benzene	46.1	5.0	ug/kg	50.0		92	83-121			
Bromobenzene	44.7	5.0	ug/kg	50.0		89	67-115			
Bromochloromethane	46.0	5.0	ug/kg	50.0		92	82-117			
Bromodichloromethane	45.6	5.0	ug/kg	50.0		91	78-122			
Bromoform	44.6	5.0	ug/kg	50.0		89	83-125			
Bromomethane	45.3	5.0	ug/kg	50.0		91	58-133			
Carbon tetrachloride	44.1	5.0	ug/kg	50.0		88	79-126			
Chlorobenzene	45.1	5.0	ug/kg	50.0		90	84-118			
Chloroethane	41.3	5.0	ug/kg	50.0		83	58-135			
Chloroform	45.4	5.0	ug/kg	50.0		91	80-123			
Chloromethane	45.1	5.0	ug/kg	50.0		90	58-128			

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Quality Control Results

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0492 - EPA 8260B (Continued)										
LCS (W7I0492-BS1)				**Prepared & Analyzed: 09/11/17**						
cis-1,2-Dichloroethene	46.7	5.0	ug/kg	50.0		93	83-120			
cis-1,3-Dichloropropene	48.5	5.0	ug/kg	50.0		97	88-123			
Dibromochloromethane	46.7	5.0	ug/kg	50.0		93	83-124			
Dibromomethane	45.0	5.0	ug/kg	50.0		90	84-123			
Dichlorodifluoromethane (Freon 12)	42.7	5.0	ug/kg	50.0		85	67-126			
Ethylbenzene	46.1	5.0	ug/kg	50.0		92	80-120			
Hexachlorobutadiene	43.9	5.0	ug/kg	50.0		88	70-130			
Isopropylbenzene	46.1	5.0	ug/kg	50.0		92	66-122			
m,p-Xylene	47.6	5.0	ug/kg	50.0		95	78-120			
m-Dichlorobenzene	44.6	5.0	ug/kg	50.0		89	75-119			
Methyl tert-butyl ether (MTBE)	45.4	5.0	ug/kg	50.0		91	83-122			
Methylene chloride	44.2	5.0	ug/kg	50.0		88	76-118			
Naphthalene	44.7	5.0	ug/kg	50.0		89	42-190			
n-Butylbenzene	47.0	5.0	ug/kg	50.0		94	68-119			
n-Propylbenzene	45.8	5.0	ug/kg	50.0		92	64-120			
o-Dichlorobenzene	45.1	5.0	ug/kg	50.0		90	77-117			
o-Xylene	48.5	5.0	ug/kg	50.0		97	77-126			
p-Dichlorobenzene	45.1	5.0	ug/kg	50.0		90	76-119			
p-Isopropyltoluene	47.0	5.0	ug/kg	50.0		94	70-123			
sec-Butylbenzene	45.5	5.0	ug/kg	50.0		91	67-120			
Styrene	48.7	5.0	ug/kg	50.0		97	84-125			
tert-Butylbenzene	45.8	5.0	ug/kg	50.0		92	70-119			
Tetrachloroethene	43.8	5.0	ug/kg	50.0		88	80-129			
Toluene	44.7	5.0	ug/kg	50.0		89	81-126			
trans-1,2-Dichloroethene	44.8	5.0	ug/kg	50.0		90	82-123			
trans-1,3-Dichloropropene	43.6	5.0	ug/kg	50.0		87	81-131			
Trichloroethene	45.3	5.0	ug/kg	50.0		91	82-118			
Trichlorofluoromethane	44.6	5.0	ug/kg	50.0		89	72-129			
Vinyl chloride	45.0	5.0	ug/kg	50.0		90	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4	*51.1*		*ug/kg*	*50.0*		*102*	*78-140*			
4-Bromofluorobenzene	*52.3*		*ug/kg*	*50.0*		*105*	*85-116*			
Dibromofluoromethane	*50.4*		*ug/kg*	*50.0*		*101*	*84-120*			
Toluene-d8	*49.3*		*ug/kg*	*50.0*		*99*	*82-120*			
Matrix Spike (W7I0492-MS1)		**Source: 7H11055-01**		**Prepared & Analyzed: 09/11/17**						
1,1,1,2-Tetrachloroethane	12900	1200	ug/kg	11800	ND	109	50-150			
1,1,1-Trichloroethane	12900	1200	ug/kg	11800	ND	110	50-150			

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0492 - EPA 8260B (Continued)										
Matrix Spike (W7I0492-MS1)	**Source: 7H11055-01**			**Prepared & Analyzed: 09/11/17**						
1,1,2,2-Tetrachloroethane	14200	1200	ug/kg	11800	ND	121	50-150			
1,1,2-Trichloroethane	14400	1200	ug/kg	11800	ND	123	50-150			
1,1-Dichloroethane	12800	1200	ug/kg	11800	ND	109	50-150			
1,1-Dichloroethene	12800	1200	ug/kg	11800	ND	109	38-139			
1,1-Dichloropropene	13500	1200	ug/kg	11800	ND	115	50-150			
1,2,3-Trichlorobenzene	13400	1200	ug/kg	11800	ND	114	50-150			
1,2,3-Trichloropropane	13900	1200	ug/kg	11800	ND	118	50-150			
1,2,4-Trichlorobenzene	13500	1200	ug/kg	11800	ND	115	50-150			
1,2,4-Trimethylbenzene	13300	1200	ug/kg	11800	ND	113	50-150			
1,2-Dibromo-3-chloropropane	15000	1200	ug/kg	11800	ND	127	50-150			
1,2-Dibromoethane (EDB)	14900	1200	ug/kg	11800	ND	127	50-150			
1,2-Dichloroethane	13400	1200	ug/kg	11800	ND	114	50-150			
1,2-Dichloropropane	13400	1200	ug/kg	11800	ND	114	50-150			
1,3,5-Trimethylbenzene	13300	1200	ug/kg	11800	ND	113	50-150			
1,3-Dichloropropane	14900	1200	ug/kg	11800	ND	127	50-150			
2,2-Dichloropropane	13800	1200	ug/kg	11800	ND	117	50-150			
2-Butanone	17900	1200	ug/kg	11800	ND	152	50-150			
2-Chloroethyl vinyl ether	20800	1200	ug/kg	11800	ND	177	50-150			Q-08
2-Chlorotoluene	13000	1200	ug/kg	11800	ND	111	50-150			
2-Hexanone	17700	1200	ug/kg	11800	ND	150	50-150			
4-Chlorotoluene	13400	1200	ug/kg	11800	ND	114	50-150			
4-Methyl-2-pentanone	15900	1200	ug/kg	11800	ND	135	50-150			
Acetone	14700	1200	ug/kg	11800	669	119	50-150			
Acrolein	13700	1200	ug/kg	11800	ND	117	50-150			
Acrylonitrile	16900	1200	ug/kg	11800	ND	143	50-150			
Benzene	13300	1200	ug/kg	11800	ND	113	30-134			
Bromobenzene	12900	1200	ug/kg	11800	ND	110	50-150			
Bromochloromethane	15800	1200	ug/kg	11800	ND	134	50-150			
Bromodichloromethane	13400	1200	ug/kg	11800	ND	114	50-150			
Bromoform	14300	1200	ug/kg	11800	ND	121	50-150			
Bromomethane	11400	1200	ug/kg	11800	355	94	50-150			
Carbon tetrachloride	12500	1200	ug/kg	11800	ND	106	50-150			
Chlorobenzene	12700	1200	ug/kg	11800	ND	108	3-135			
Chloroethane	1250	1200	ug/kg	11800	ND	11	50-150			MS-05
Chloroform	13000	1200	ug/kg	11800	ND	111	50-150			
Chloromethane	13600	1200	ug/kg	11800	ND	116	50-150			
cis-1,2-Dichloroethene	13200	1200	ug/kg	11800	ND	112	50-150			

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0492 - EPA 8260B (Continued)										
Matrix Spike (W7I0492-MS1)	**Source: 7H11055-01**			**Prepared & Analyzed: 09/11/17**						
cis-1,3-Dichloropropene	14500	1200	ug/kg	11800	ND	124	50-150			
Dibromochloromethane	14700	1200	ug/kg	11800	ND	124	50-150			
Dibromomethane	13900	1200	ug/kg	11800	ND	118	50-150			
Dichlorodifluoromethane (Freon 12)	13000	1200	ug/kg	11800	ND	110	50-150			
Ethylbenzene	13300	1200	ug/kg	11800	ND	113	50-150			
Hexachlorobutadiene	12600	1200	ug/kg	11800	ND	107	50-150			
Isopropylbenzene	13400	1200	ug/kg	11800	ND	114	50-150			
m,p-Xylene	13700	1200	ug/kg	11800	ND	117	50-150			
m-Dichlorobenzene	12800	1200	ug/kg	11800	ND	109	50-150			
Methyl tert-butyl ether (MTBE)	13900	1200	ug/kg	11800	ND	118	50-150			
Methylene chloride	12800	1200	ug/kg	11800	ND	108	50-150			
Naphthalene	15600	1200	ug/kg	11800	ND	132	50-150			
n-Butylbenzene	13500	1200	ug/kg	11800	ND	115	50-150			
n-Propylbenzene	13200	1200	ug/kg	11800	ND	112	50-150			
o-Dichlorobenzene	13000	1200	ug/kg	11800	ND	110	50-150			
o-Xylene	14200	1200	ug/kg	11800	ND	121	50-150			
p-Dichlorobenzene	12900	1200	ug/kg	11800	ND	110	50-150			
p-Isopropyltoluene	13800	1200	ug/kg	11800	ND	117	50-150			
sec-Butylbenzene	13500	1200	ug/kg	11800	ND	115	50-150			
Styrene	13800	1200	ug/kg	11800	ND	117	50-150			
tert-Butylbenzene	13600	1200	ug/kg	11800	ND	116	50-150			
Tetrachloroethene	13400	1200	ug/kg	11800	ND	114	50-150			
Toluene	13500	1200	ug/kg	11800	ND	115	11-140			
trans-1,2-Dichloroethene	12800	1200	ug/kg	11800	ND	109	50-150			
trans-1,3-Dichloropropene	13600	1200	ug/kg	11800	ND	116	50-150			
Trichloroethene	13100	1200	ug/kg	11800	ND	111	10-144			
Trichlorofluoromethane	965	1200	ug/kg	11800	ND	8	50-150			MS-05
Vinyl chloride	11900	1200	ug/kg	11800	ND	101	50-150			
Surrogate(s)										
1,2-Dichloroethane-d4		*262*	*ug/kg*	*235*		*111*	*78-140*			
4-Bromofluorobenzene		*245*	*ug/kg*	*235*		*104*	*85-116*			
Dibromofluoromethane		*236*	*ug/kg*	*235*		*100*	*84-120*			
Toluene-d8		*239*	*ug/kg*	*235*		*102*	*82-120*			
Matrix Spike Dup (W7I0492-MSD1)	**Source: 7H11055-01**			**Prepared & Analyzed: 09/11/17**						
1,1,1,2-Tetrachloroethane	14100	1200	ug/kg	11800	ND	120	50-150	9	25	
1,1,1-Trichloroethane	14400	1200	ug/kg	11800	ND	122	50-150	11	25	
1,1,2,2-Tetrachloroethane	13800	1200	ug/kg	11800	ND	117	50-150	3	25	

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Quality Control Results

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0492 - EPA 8260B (Continued)										
Matrix Spike Dup (W7I0492-MSD1)	**Source: 7H11055-01**			**Prepared & Analyzed: 09/11/17**						
1,1,2-Trichloroethane	15900	1200	ug/kg	11800	ND	135	50-150	10	25	
1,1-Dichloroethane	14500	1200	ug/kg	11800	ND	123	50-150	12	25	
1,1-Dichloroethene	14400	1200	ug/kg	11800	ND	122	38-139	12	25	
1,1-Dichloropropene	15100	1200	ug/kg	11800	ND	128	50-150	11	25	
1,2,3-Trichlorobenzene	13800	1200	ug/kg	11800	ND	117	50-150	3	25	
1,2,3-Trichloropropane	13400	1200	ug/kg	11800	ND	114	50-150	4	25	
1,2,4-Trichlorobenzene	14300	1200	ug/kg	11800	ND	122	50-150	6	25	
1,2,4-Trimethylbenzene	14700	1200	ug/kg	11800	ND	125	50-150	10	25	
1,2-Dibromo-3-chloropropane	13000	1200	ug/kg	11800	ND	110	50-150	14	25	
1,2-Dibromoethane (EDB)	15700	1200	ug/kg	11800	ND	133	50-150	5	25	
1,2-Dichloroethane	14300	1200	ug/kg	11800	ND	122	50-150	6	25	
1,2-Dichloropropane	14900	1200	ug/kg	11800	ND	127	50-150	11	25	
1,3,5-Trimethylbenzene	14400	1200	ug/kg	11800	ND	123	50-150	8	25	
1,3-Dichloropropane	15900	1200	ug/kg	11800	ND	135	50-150	6	25	
2,2-Dichloropropane	15200	1200	ug/kg	11800	ND	129	50-150	10	25	
2-Butanone	15800	1200	ug/kg	11800	ND	134	50-150	12	25	
2-Chloroethyl vinyl ether	19300	1200	ug/kg	11800	ND	164	50-150	7	25	Q-08
2-Chlorotoluene	14400	1200	ug/kg	11800	ND	122	50-150	10	25	
2-Hexanone	16900	1200	ug/kg	11800	ND	144	50-150	4	25	
4-Chlorotoluene	14800	1200	ug/kg	11800	ND	126	50-150	10	25	
4-Methyl-2-pentanone	15400	1200	ug/kg	11800	ND	130	50-150	4	25	
Acetone	13200	1200	ug/kg	11800	669	107	50-150	11	25	
Acrolein	10800	1200	ug/kg	11800	ND	92	50-150	24	25	
Acrylonitrile	14500	1200	ug/kg	11800	ND	124	50-150	15	25	
Benzene	14700	1200	ug/kg	11800	ND	125	30-134	10	25	
Bromobenzene	14100	1200	ug/kg	11800	ND	120	50-150	9	25	
Bromochloromethane	17100	1200	ug/kg	11800	ND	145	50-150	8	25	
Bromodichloromethane	14800	1200	ug/kg	11800	ND	125	50-150	10	25	
Bromoform	14900	1200	ug/kg	11800	ND	127	50-150	4	25	
Bromomethane	12900	1200	ug/kg	11800	355	107	50-150	13	25	
Carbon tetrachloride	13900	1200	ug/kg	11800	ND	118	50-150	11	25	
Chlorobenzene	13800	1200	ug/kg	11800	ND	117	3-135	8	25	
Chloroethane	1440	1200	ug/kg	11800	ND	12	50-150	14	25	MS-05
Chloroform	14300	1200	ug/kg	11800	ND	121	50-150	9	25	
Chloromethane	14900	1200	ug/kg	11800	ND	127	50-150	9	25	
cis-1,2-Dichloroethene	14800	1200	ug/kg	11800	ND	126	50-150	12	25	
cis-1,3-Dichloropropene	15800	1200	ug/kg	11800	ND	134	50-150	8	25	

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7I0492 - EPA 8260B (Continued)										
Matrix Spike Dup (W7I0492-MSD1)	**Source: 7H11055-01**			**Prepared & Analyzed: 09/11/17**						
Dibromochloromethane	16400	1200	ug/kg	11800	ND	140	50-150	11	25	
Dibromomethane	14600	1200	ug/kg	11800	ND	124	50-150	5	25	
Dichlorodifluoromethane (Freon 12)	14500	1200	ug/kg	11800	ND	123	50-150	11	25	
Ethylbenzene	14200	1200	ug/kg	11800	ND	120	50-150	7	25	
Hexachlorobutadiene	13300	1200	ug/kg	11800	ND	113	50-150	5	25	
Isopropylbenzene	14800	1200	ug/kg	11800	ND	125	50-150	10	25	
m,p-Xylene	14900	1200	ug/kg	11800	ND	127	50-150	8	25	
m-Dichlorobenzene	13600	1200	ug/kg	11800	ND	116	50-150	6	25	
Methyl tert-butyl ether (MTBE)	14600	1200	ug/kg	11800	ND	124	50-150	5	25	
Methylene chloride	14200	1200	ug/kg	11800	ND	121	50-150	11	25	
Naphthalene	15000	1200	ug/kg	11800	ND	128	50-150	4	25	
n-Butylbenzene	14600	1200	ug/kg	11800	ND	124	50-150	7	25	
n-Propylbenzene	14500	1200	ug/kg	11800	ND	123	50-150	9	25	
o-Dichlorobenzene	13700	1200	ug/kg	11800	ND	116	50-150	5	25	
o-Xylene	15500	1200	ug/kg	11800	ND	132	50-150	9	25	
p-Dichlorobenzene	14000	1200	ug/kg	11800	ND	119	50-150	8	25	
p-Isopropyltoluene	14800	1200	ug/kg	11800	ND	126	50-150	7	25	
sec-Butylbenzene	14600	1200	ug/kg	11800	ND	124	50-150	8	25	
Styrene	15800	1200	ug/kg	11800	ND	134	50-150	13	25	
tert-Butylbenzene	14900	1200	ug/kg	11800	ND	127	50-150	9	25	
Tetrachloroethene	14900	1200	ug/kg	11800	ND	126	50-150	10	25	
Toluene	15200	1200	ug/kg	11800	ND	129	11-140	12	25	
trans-1,2-Dichloroethene	14300	1200	ug/kg	11800	ND	122	50-150	11	25	
trans-1,3-Dichloropropene	14800	1200	ug/kg	11800	ND	125	50-150	8	25	
Trichloroethene	14500	1200	ug/kg	11800	ND	123	10-144	10	25	
Trichlorofluoromethane	4070	1200	ug/kg	11800	ND	35	50-150	123	25	MS-05
Vinyl chloride	13200	1200	ug/kg	11800	ND	112	50-150	11	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*258*		*ug/kg*	*235*		*109*	*78-140*			
4-Bromofluorobenzene	*257*		*ug/kg*	*235*		*109*	*85-116*			
Dibromofluoromethane	*241*		*ug/kg*	*235*		*102*	*84-120*			
Toluene-d8	*244*		*ug/kg*	*235*		*104*	*82-120*			

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Notes and Definitions

Item	Definition
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
QR-04	The RPD value for the MS/MSD was outside of QC acceptance limits however both recoveries were acceptable. The QC batch was accepted based on acceptable results for the recoveries and RPD for the LCS and LCSD.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

Appendix B - Analytes Measured by Name and Chemical Abstract Service Number, with Analytical Methods, Mean, Minimum, and Maximum Detection Limits and Reporting Limits for Each Analyte

Appendix B1. Analytes measured in almonds by name and Chemical Abstract Service (CAS) number, with analytical methods, and the mean, minimum (min), and maximum (max) detection limits (DL) and reporting limits (RL) for each analyte. Reporting limits take into account dilution of the sample before analysis.

Analyte	CAS Number	Analytical Method	Units	No. Samp.	Mean (DL)	Min (DL)	Max (DL)	Mean (RL)	Min (RL)	Max (RL)
1,1,1,2-Tetrachloroethane	630-20-6	EPA 8260B	ug/kg	24	144.1	140	150	1187.5	1100	1200
1,1,1-Trichloroethane	71-55-6	EPA 8260B	ug/kg	24	335	320	350	1187.5	1100	1200
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260B	ug/kg	24	220.8	210	230	1187.5	1100	1200
1,1,2-Trichloroethane	79-00-5	EPA 8260B	ug/kg	24	335	320	350	1187.5	1100	1200
1,1-Dichloroethane	75-34-3	EPA 8260B	ug/kg	24	205.4	200	210	1187.5	1100	1200
1,1-Dichloroethene	75-35-4	EPA 8260B	ug/kg	24	240	230	250	1187.5	1100	1200
1,1-Dichloropropene	563-58-6	EPA 8260B	ug/kg	24	454.2	430	470	1187.5	1100	1200
1,2,3-Trichlorobenzene	87-61-6	EPA 8260B	ug/kg	24	240	230	250	1187.5	1100	1200
1,2,3-Trichloropropane	96-18-4	EPA 8260B	ug/kg	24	262.5	250	270	1187.5	1100	1200
1,2,4-Trichlorobenzene	120-82-1	EPA 8260B	ug/kg	24	225	210	230	1187.5	1100	1200
1,2,4-Trimethylbenzene	95-63-6	EPA 8260B	ug/kg	24	114.6	110	120	1187.5	1100	1200
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260B	ug/kg	24	358.3	340	370	1187.5	1100	1200
1,2-Dibromoethane (EDB)	106-93-4	EPA 8260B	ug/kg	24	382.9	370	400	1187.5	1100	1200
1,2-Dichloroethane	107-06-2	EPA 8260B	ug/kg	24	287.5	270	300	1187.5	1100	1200
1,2-Dichloropropane	78-87-5	EPA 8260B	ug/kg	24	225	210	230	1187.5	1100	1200
1,3,5-Trimethylbenzene	108-67-8	EPA 8260B	ug/kg	24	118.8	110	120	1187.5	1100	1200
1,3-Dichloropropane	142-28-9	EPA 8260B	ug/kg	24	186.3	180	190	1187.5	1100	1200
1-Methylnaphthalene	90-12-0	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
2,2-Dichloropropane	594-20-7	EPA 8260B	ug/kg	24	217.5	210	230	1187.5	1100	1200
2-Butanone	78-93-3	EPA 8260B	ug/kg	24	358.3	340	370	1187.5	1100	1200
2-Chloroethyl vinyl ether	110-75-8	EPA 8260B	ug/kg	24	240	230	250	1187.5	1100	1200
2-Chlorotoluene	95-49-8	EPA 8260B	ug/kg	24	174.6	170	180	1187.5	1100	1200
2-Hexanone	591-78-6	EPA 8260B	ug/kg	24	287.5	270	300	1187.5	1100	1200
2-Methylnaphthalene	91-57-6	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74

Analyte	CAS Number	Analytical Method	Units	No. Samp.	Mean (DL)	Min (DL)	Max (DL)	Mean (RL)	Min (RL)	Max (RL)
4-Chlorotoluene	106-43-4	EPA 8260B	ug/kg	24	166.7	160	170	1187.5	1100	1200
4-Methyl-2-pentanone	108-10-1	EPA 8260B	ug/kg	24	335	320	350	1187.5	1100	1200
Acenaphthene	83-32-9	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Acenaphthylene	208-96-8	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Acetone	67-64-1	EPA 8260B	ug/kg	24	597.9	570	620	1187.5	1100	1200
Acrolein	107-02-8	EPA 8260B	ug/kg	24	430.4	410	450	1187.5	1100	1200
Acrylonitrile	107-13-1	EPA 8260B	ug/kg	24	406.7	390	420	1187.5	1100	1200
Anthracene	120-12-7	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Antimony, Total	7440-36-0	EPA 6020B	mg/kg	24	0.2	0.2	0.2	0.5	0.5	0.5
Arsenic, Total	7440-38-2	EPA 6020B	mg/kg	24	0.2	0.2	0.2	0.5	0.5	0.5
Barium, Total	7440-39-3	EPA 6020B	mg/kg	24	0.1	0.1	0.1	0.5	0.5	0.5
Benzene	71-43-2	EPA 8260B	ug/kg	24	335	320	350	1187.5	1100	1200
Benzo (a) anthracene	56-55-3	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Benzo (a) pyrene	50-32-8	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Benzo (b) fluoranthene	205-99-2	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Benzo (g,h,i) perylene	191-24-2	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Benzo (k) fluoranthene	207-08-9	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Beryllium, Total	7440-41-7	EPA 6020B	mg/kg	24	0.35	0.2	0.4	0.525	0.3	0.6
Bis(2-ethylhexyl)phthalate	117-81-7	EPA 8270C	mg/kg	24	0.11	0.092	0.12	0.45	0.38	0.49
Bromobenzene	108-86-1	EPA 8260B	ug/kg	24	188.75	180	200	1187.5	1100	1200
Bromochloromethane	74-97-5	EPA 8260B	ug/kg	24	117.5	110	120	1187.5	1100	1200
Bromodichloromethane	75-27-4	EPA 8260B	ug/kg	24	172.5	160	180	1187.5	1100	1200
Bromoform	75-25-2	EPA 8260B	ug/kg	24	193.75	180	200	1187.5	1100	1200
Bromomethane	74-83-9	EPA 8260B	ug/kg	24	287.5	270	300	1187.5	1100	1200
Cadmium, Total	7440-43-9	EPA 6020B	mg/kg	24	0.06	0.06	0.06	0.2	0.2	0.2
Carbazole	86-74-8	EPA 8270C	mg/kg	24	0.081	0.069	0.088	0.45	0.38	0.49
Carbon tetrachloride	56-23-5	EPA 8260B	ug/kg	24	382.9	370	400	1187.5	1100	1200
Chlorobenzene	108-90-7	EPA 8260B	ug/kg	24	141.25	130	150	1187.5	1100	1200
Chloroethane	75-00-3	EPA 8260B	ug/kg	24	454.2	430	470	1187.5	1100	1200

Analyte	CAS Number	Analytical Method	Units	No. Samp.	Mean (DL)	Min (DL)	Max (DL)	Mean (RL)	Min (RL)	Max (RL)
Chloroform	67-66-3	EPA 8260B	ug/kg	24	215.4	210	220	1187.5	1100	1200
Chloromethane	74-87-3	EPA 8260B	ug/kg	24	134.2	130	140	1187.5	1100	1200
Chromium, Total	7440-47-3	EPA 6020B	mg/kg	24	0.23	0.23	0.23	1	1	1
Chrysene	218-01-9	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
cis-1,2-Dichloroethene	156-59-2	EPA 8260B	ug/kg	24	240	230	250	1187.5	1100	1200
cis-1,3-Dichloropropene	10061-01-5	EPA 8260B	ug/kg	24	201.25	190	210	1187.5	1100	1200
Cobalt, Total	7440-48-4	EPA 6020B	mg/kg	24	0.31	0.31	0.31	0.5	0.5	0.5
Copper, Total	7440-50-8	EPA 6020B	mg/kg	24	0.29	0.29	0.29	0.5	0.5	0.5
Dibenzo (a,h) anthracene	53-70-3	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Dibromochloromethane	124-48-1	EPA 8260B	ug/kg	24	382.9	370	400	1187.5	1100	1200
Dibromomethane	74-95-3	EPA 8260B	ug/kg	24	262.5	250	270	1187.5	1100	1200
Dichlorodifluoromethane (Freon 12)	75-71-8	EPA 8260B	ug/kg	24	195.8	190	200	1187.5	1100	1200
Ethylbenzene	100-41-4	EPA 8260B	ug/kg	24	86.0	82	89	1187.5	1100	1200
Fluoranthene	206-44-0	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Fluorene	86-73-7	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Hexachlorobutadiene	87-68-3	EPA 8260B	ug/kg	24	262.5	250	270	1187.5	1100	1200
Indeno (1,2,3-cd) pyrene	193-39-5	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Isopropylbenzene	98-82-8	EPA 8260B	ug/kg	24	136.25	130	140	1187.5	1100	1200
Lead, Total	7439-92-1	EPA 6020B	mg/kg	24	0.21	0.21	0.21	0.5	0.5	0.5
Lithium, Total	7439-93-2	EPA 6010B	mg/kg	24	0.23	0.23	0.23	5	5	5
m,p-Xylene	1330-20-7	EPA 8260B	ug/kg	24	335	320	350	1187.5	1100	1200
m-Dichlorobenzene	541-73-1	EPA 8260B	ug/kg	24	166.7	160	170	1187.5	1100	1200
Methanol	67-56-1	EPA 8015D	mg/kg	24	112.7	94	130	424.6	350	500
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260B	ug/kg	24	240	230	250	1187.5	1100	1200
Methylene chloride	75-09-2	EPA 8260B	ug/kg	24	162.9	160	170	1187.5	1100	1200
Molybdenum, Total	7439-98-7	EPA 6020B	mg/kg	24	0.3	0.3	0.3	0.5	0.5	0.5
Naphthalene	91-20-3	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74

Analyte	CAS Number	Analytical Method	Units	No. Samp.	Mean (DL)	Min (DL)	Max (DL)	Mean (RL)	Min (RL)	Max (RL)
Naphthalene (8260B)	91-20-3	EPA 8260B	ug/kg	24	310.8	300	320	1187.5	1100	1200
n-Butylbenzene	104-51-8	EPA 8260B	ug/kg	24	153.3	150	160	1187.5	1100	1200
Nickel, Total	7440-02-0	EPA 6020B	mg/kg	24	0.45	0.45	0.45	1	1	1
n-Propylbenzene	103-65-1	EPA 8260B	ug/kg	24	122.1	120	130	1187.5	1100	1200
o-Dichlorobenzene	95-50-1	EPA 8260B	ug/kg	24	144.2	140	150	1187.5	1100	1200
o-Xylene	95-47-6	EPA 8260B	ug/kg	24	124.2	120	130	1187.5	1100	1200
p-Dichlorobenzene	106-46-7	EPA 8260B	ug/kg	24	166.7	160	170	1187.5	1100	1200
Phenanthrene	85-01-8	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Phenol	108-95-2	EPA 8270C	mg/kg	24	0.135	0.11	0.15	0.45	0.38	0.49
p-Isopropyltoluene	99-87-6	EPA 8260B	ug/kg	24	132.1	130	140	1187.5	1100	1200
Pyrene	129-00-0	EPA 8270C SIM	ug/kg	24	13.5	11	15	67.5	57	74
Pyridine	110-86-1	EPA 8270C	mg/kg	24	0.045	0.038	0.049	0.90	0.77	0.98
sec-Butylbenzene	135-98-8	EPA 8260B	ug/kg	24	110	110	110	1187.5	1100	1200
Selenium, Total	7782-49-2	EPA 6020B	mg/kg	24	0.46	0.46	0.46	0.5	0.5	0.5
Silver, Total	7440-22-4	EPA 6020B	mg/kg	24	0.3	0.3	0.3	0.5	0.5	0.5
Strontium, Total	7440-24-6	EPA 6020B	mg/kg	24	0.25	0.25	0.25	0.5	0.5	0.5
Styrene	100-42-5	EPA 8260B	ug/kg	24	186.3	180	190	1187.5	1100	1200
tert-Butylbenzene	98-06-6	EPA 8260B	ug/kg	24	145.8	140	150	1187.5	1100	1200
Tetrachloroethene	127-18-4	EPA 8260B	ug/kg	24	358.3	340	370	1187.5	1100	1200
Thallium, Total	7440-28-0	EPA 6020B	mg/kg	24	0.18	0.18	0.18	0.5	0.5	0.5
Toluene	108-88-3	EPA 8260B	ug/kg	24	262.5	250	270	1187.5	1100	1200
trans-1,2-Dichloroethene	156-60-5	EPA 8260B	ug/kg	24	287.5	270	300	1187.5	1100	1200
trans-1,3-Dichloropropene	10061-02-6	EPA 8260B	ug/kg	24	310.8	300	320	1187.5	1100	1200
Trichloroethene	79-01-6	EPA 8260B	ug/kg	24	240	230	250	1187.5	1100	1200
Trichlorofluoromethane	75-69-4	EPA 8260B	ug/kg	24	621.7	590	640	1187.5	1100	1200
Vanadium, Total	7440-62-2	EPA 6020B	mg/kg	24	0.73	0.73	0.73	1	1	1
Vinyl chloride	75-01-4	EPA 8260B	ug/kg	24	227.1	220	240	1187.5	1100	1200
Zinc, Total	7440-66-6	EPA 6020B	mg/kg	24	2.3	2.3	2.3	5	5	5