Food Safety Project

Pistachio Sampling 2017

Comparison of Chemical Analyses Between Pistachios Irrigated with Produced Water and Pistachios 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 2017, pistachio 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). Pistachio 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 pistachios 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 September 6th and 9th, 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 pistachio samples were cut or picked from the branch, not pulled, which might damage the pistachios, 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). Analysis included in this report met applicable quality assurance and quality control (QA/QC) requirements.

2.2 Sample analysis

Pistachio crop samples were analyzed by a state certified analytical laboratory with experience analyzing fruit, tree nut, and other food samples (Weck Laboratories, Inc., City of Industry, CA). Samples hulls and any exposed shells were wiped clean of dirt using a lint-free tissue and inedible portions of the sample were removed. The remaining 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 or duplicates

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 Pistachio nut. 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 pistachio analyses are included as Appendix A, and it can be seen that most analytes in the pistachios 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 pistachio samples, barium, copper, molybdenum, nickel, strontium, and zinc were detected at measurable concentrations (Table 5). Nickel and molybdenum were only detected once each (Table 5) and in both cases the element was observed in a control sample that had not been irrigated with produced water.

Figure 2 shows a comparison of concentrations of total barium in pistachio between treated and controls. Results show that significantly higher barium concentrations on average were observed

in pistachios from areas that received produced water (treated) than from areas that did not receive produced water (controls). Barium is a naturally occurring element 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 pistachios tested are within the range of normal and acceptable concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2007).

Figure 3 shows a comparison of concentrations of total copper in pistachios between treated and controls. Results show that pistachios from areas that received produced water (treated) had significantly lower copper concentrations on average than samples 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 pistachios tested are within normal concentrations for food crops (Agency for Toxic Substances and Disease Registry (ATSDR), 2004a).

Figure 4 shows a comparison of concentrations of total strontium in pistachios between treated and controls. Results show that pistachios from areas that received produced water (treated) had strontium concentrations that were not significantly different on average than pistachios from areas that did not receive produced water (controls). Strontium is a naturally occurring element found in soil and fresh water and strontium concentrations in the pistachios tested are within normal concentrations for food crops (Agency for Toxic Substances and Disease Registry (ATSDR), 2004b).

Figures 5 show a comparison of concentrations of total zinc in pistachio between treated and controls. Results show that pistachio from areas that received produced water (treated) had significantly lower zinc concentrations on average compared with pistachios from areas that did not receive produced water (controls). Zinc is naturally occurring essential nutrient and, although zinc is reported as being used in oil field operations that provide produced water to the treated areas, zinc concentrations in the pistachios tested are within normal concentrations for food crops (Agency for Toxic Substances and Disease Registry (ATSDR), 2005).

3.2 Organic analysis

Of the 30 organic analytes on the target analyte list (Table 1), only acetone and bis(2-ethylhexyl)phthalate were detected at measurable concentrations in the nut (Table 3). Bis(2-ethylhexyl)phthalate was detected in only one sample from a control field that had not been irrigated with produced water. Bis(2-ethylhexyl)phthalate is very common in the environment and the concentrations of bis(2-ethylhexyl)phthalate are with in normal concentrations for food crops (Agency for Toxic Substances and Disease Registry (ATSDR), 2002).

Acetone is a naturally occurring chemical that can occur in high concentrations in food (Agency for Toxic Substances and Disease Registry (ATSDR), 1994). In Figure 6, acetone concentration in pistachios from treated areas that had received produced water are compared to control areas that had never received produced water. Results show that pistachios from areas that received produced water (treated) had acetone concentrations that were not significantly different than pistachios from areas that did not receive produced water (controls).

Data were reported for an additional 59 organic analytes (Table 3) that were not on the required target organic analyte list (Table 1). No additional organic analytes from Table 3 were detected in pistachio samples.

4. Conclusions

The primary objective of this study was to determine if the use of produced water for irrigation of pistachio trees resulted in increased concentration of any of the chemical constituents listed in Tables 1 and 2 in pistachios from produced water irrigated areas (treated areas) in comparison to areas that did not receive produced water (control areas). Overall, the results of this sampling event did not indicate that the use of produced water changed the concentration of the target analytes in pistachios.

Barium, copper, molybdenum, nickel, strontium, and zinc were detected at measurable concentrations in pistachio samples (Table 5). Nickel and molybdenum were only detected once each. Strontium was found in comparable concentrations in both produced water irrigated and control samples. Copper and zinc were found in slightly higher concentrations in pistachio samples from control areas that did not receive produced water. The sampling results indicated higher concentrations of barium in pistachios collected from treated areas. The concentrations of barium found were within known concentrations for foods (Agency for Toxic Substances and Disease Registry (ATSDR), 2007). Barium is a common element in groundwater and may occur in soils, but is also reported as being used in oil field operations that provide produced water to the treated areas. Slightly elevated concentrations in pistachios from areas irrigated with produced water cannot be definitively attributed to produced water reuse without further study, including sampling and analysis of other potential sources of these elements, including other water sources used in the district and soils. These elements are naturally occurring in pistachios.

Acetone and bis(2-ethylhexyl)phthalate were measured in some samples. Bis(2-ethylhexyl)phthalate was detected in only one sample from a control field that had not been irrigated with produced water. Bis(2-ethylhexyl)phthalate is not associated specifically with oil and gas production and is very common in the environment due to the widespread use of plastics (Agency for Toxic Substances and Disease Registry (ATSDR), 2002). The occurrence of bis(2-ethylhexyl)phthalate in one control sample suggests the source of this compound is not related to irrigation practices.

Acetone was found at the same concentrations in pistachio samples from produce water irrigated areas and control areas without produced water. Acetone is naturally occurring in many fruits, vegetables, and other foods (Agency for Toxic Substances and Disease Registry (ATSDR), 1994).

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

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Tables

Table 1. Target organic analytes measured in pistachios 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 pistachios 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	25	0	0	1200	0
1,1,1-Trichloroethane	71-55-6	ug/kg	EPA 8260B	25	0	0	1200	0
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	EPA 8260B	25	0	0	1200	0
1,1,2-Trichloroethane	79-00-5	ug/kg	EPA 8260B	25	0	0	1200	0
1,1-Dichloroethane	75-34-3	ug/kg	EPA 8260B	25	0	0	1200	0
1,1-Dichloroethene	75-35-4	ug/kg	EPA 8260B	25	0	0	1200	0
1,1-Dichloropropene	563-58-6	ug/kg	EPA 8260B	25	0	0	1200	0
1,2,3-Trichlorobenzene	87-61-6	ug/kg	EPA 8260B	25	0	0	1200	0
1,2,3-Trichloropropane	96-18-4	ug/kg	EPA 8260B	25	0	0	1200	0
1,2,4-Trichlorobenzene	120-82-1	ug/kg	EPA 8260B	25	0	0	1200	0
1,2,4-Trimethylbenzene	95-63-6	ug/kg	EPA 8260B	25	0	0	1200	0
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	EPA 8260B	25	0	0	1200	0
1,2-Dibromoethane (EDB)	106-93-4	ug/kg	EPA 8260B	25	0	0	1200	0
1,2-Dichloroethane	107-06-2	ug/kg	EPA 8260B	25	0	0	1200	0
1,2-Dichloropropane	78-87-5	ug/kg	EPA 8260B	25	0	0	1200	0
1,3,5-Trimethylbenzene	108-67-8	ug/kg	EPA 8260B	25	0	0	1200	0
1,3-Dichloropropane	142-28-9	ug/kg	EPA 8260B	25	0	0	1200	0
1-Methylnaphthalene	90-12-0	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
2,2-Dichloropropane	594-20-7	ug/kg	EPA 8260B	25	0	0	1200	0
2-Butanone	78-93-3	ug/kg	EPA 8260B	25	0	0	1200	0
2-Chloroethyl vinyl ether	110-75-8	ug/kg	EPA 8260B	25	0	0	1200	0
2-Chlorotoluene	95-49-8	ug/kg	EPA 8260B	25	0	0	1200	0
2-Hexanone	591-78-6	ug/kg	EPA 8260B	25	0	0	1200	0
2-Methylnaphthalene	91-57-6	ug/kg	EPA 8270C SIM	24	0	0	69.5	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	25	0	0	1200	0
4-Methyl-2-pentanone	108-10-1	ug/kg	EPA 8260B	25	0	0	1200	0
Acenaphthene	83-32-9	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Acenaphthylene	208-96-8	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Acetone	67-64-1	ug/kg	EPA 8260B	25	2100	3	1200	12
Acrolein	107-02-8	ug/kg	EPA 8260B	25	0	0	1200	0
Acrylonitrile	107-13-1	ug/kg	EPA 8260B	25	0	0	1200	0
Anthracene	120-12-7	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Benzene	71-43-2	ug/kg	EPA 8260B	25	0	0	1200	0
Benzo (a) anthracene	56-55-3	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Benzo (a) pyrene	50-32-8	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Benzo (b) fluoranthene	205-99-2	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Benzo (g,h,i) perylene	191-24-2	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Benzo (k) fluoranthene	207-08-9	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	EPA 8270C	24	0.59	1	0.465	4.2
Bromobenzene	108-86-1	ug/kg	EPA 8260B	25	0	0	1200	0
Bromochloromethane	74-97-5	ug/kg	EPA 8260B	25	0	0	1200	0
Bromodichloromethane	75-27-4	ug/kg	EPA 8260B	25	0	0	1200	0
Bromoform	75-25-2	ug/kg	EPA 8260B	25	0	0	1200	0
Bromomethane	74-83-9	ug/kg	EPA 8260B	25	0	0	1200	0
Carbazole	86-74-8	mg/kg	EPA 8270C	24	0	0	0.465	0
Carbon tetrachloride	56-23-5	ug/kg	EPA 8260B	25	0	0	1200	0
Chlorobenzene	108-90-7	ug/kg	EPA 8260B	25	0	0	1200	0
Chloroethane	75-00-3	ug/kg	EPA 8260B	25	0	0	1200	0
Chloroform	67-66-3	ug/kg	EPA 8260B	25	0	0	1200	0
Chloromethane	74-87-3	ug/kg	EPA 8260B	25	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	69.5	0
cis-1,2-Dichloroethene	156-59-2	ug/kg	EPA 8260B	25	0	0	1200	0
cis-1,3-Dichloropropene	10061-01-5	ug/kg	EPA 8260B	25	0	0	1200	0
Dibenzo (a,h) anthracene	53-70-3	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Dibromochloromethane	124-48-1	ug/kg	EPA 8260B	25	0	0	1200	0
Dibromomethane	74-95-3	ug/kg	EPA 8260B	25	0	0	1200	0
Dichlorodifluoromethane (Freon 12)	75-71-8	ug/kg	EPA 8260B	25	0	0	1200	0
Ethylbenzene	100-41-4	ug/kg	EPA 8260B	25	0	0	1200	0
Fluoranthene	206-44-0	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Fluorene	86-73-7	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Hexachlorobutadiene	87-68-3	ug/kg	EPA 8260B	25	0	0	1200	0
Indeno (1,2,3-cd) pyrene	193-39-5	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Isopropylbenzene	98-82-8	ug/kg	EPA 8260B	25	0	0	1200	0
m,p-Xylene	1330-20-7	ug/kg	EPA 8260B	25	0	0	1200	0
m-Dichlorobenzene	541-73-1	ug/kg	EPA 8260B	25	0	0	1200	0
Methanol	67-56-1	mg/kg	EPA 8015D	24	0	0	210	0
Methyl tert-butyl ether (MTBE)	1634-04-4	ug/kg	EPA 8260B	25	0	0	1200	0
Methylene chloride	75-09-2	ug/kg	EPA 8260B	25	0	0	1200	0
Naphthalene	91-20-3	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Naphthalene (8260B)	91-20-3	ug/kg	EPA 8260B	25	0	0	1200	0
n-Butylbenzene	104-51-8	ug/kg	EPA 8260B	25	0	0	1200	0
n-Propylbenzene	103-65-1	ug/kg	EPA 8260B	25	0	0	1200	0
o-Dichlorobenzene	95-50-1	ug/kg	EPA 8260B	25	0	0	1200	0
o-Xylene	95-47-6	ug/kg	EPA 8260B	25	0	0	1200	0
p-Dichlorobenzene	106-46-7	ug/kg	EPA 8260B	25	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	69.5	0
Phenol	108-95-2	mg/kg	EPA 8270C	24	0	0	0.465	0
p-Isopropyltoluene	99-87-6	ug/kg	EPA 8260B	25	0	0	1200	0
Pyrene	129-00-0	ug/kg	EPA 8270C SIM	24	0	0	69.5	0
Pyridine	110-86-1	mg/kg	EPA 8270C	24	0	0	0.93	0
sec-Butylbenzene	135-98-8	ug/kg	EPA 8260B	25	0	0	1200	0
Styrene	100-42-5	ug/kg	EPA 8260B	25	0	0	1200	0
tert-Butylbenzene	98-06-6	ug/kg	EPA 8260B	25	0	0	1200	0
Tetrachloroethene	127-18-4	ug/kg	EPA 8260B	25	0	0	1200	0
Toluene	108-88-3	ug/kg	EPA 8260B	25	0	0	1200	0
trans-1,2-Dichloroethene	156-60-5	ug/kg	EPA 8260B	25	0	0	1200	0
trans-1,3-Dichloropropene	10061-02-6	ug/kg	EPA 8260B	25	0	0	1200	0
Trichloroethene	79-01-6	ug/kg	EPA 8260B	25	0	0	1200	0
Trichlorofluoromethane	75-69-4	ug/kg	EPA 8260B	25	0	0	1200	0
Vinyl chloride	75-01-4	ug/kg	EPA 8260B	25	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	1.0	9	0.5	37.5
Beryllium, Total	7440-41-7	mg/kg	EPA 6020B	24	0	0	0.3	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	7.9	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	0.77	1	0.5	4.2
Nickel, Total	7440-02-0	mg/kg	EPA 6020B	24	1.0	1	1	4.2
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	3.7	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	15	24	5	100

Figures

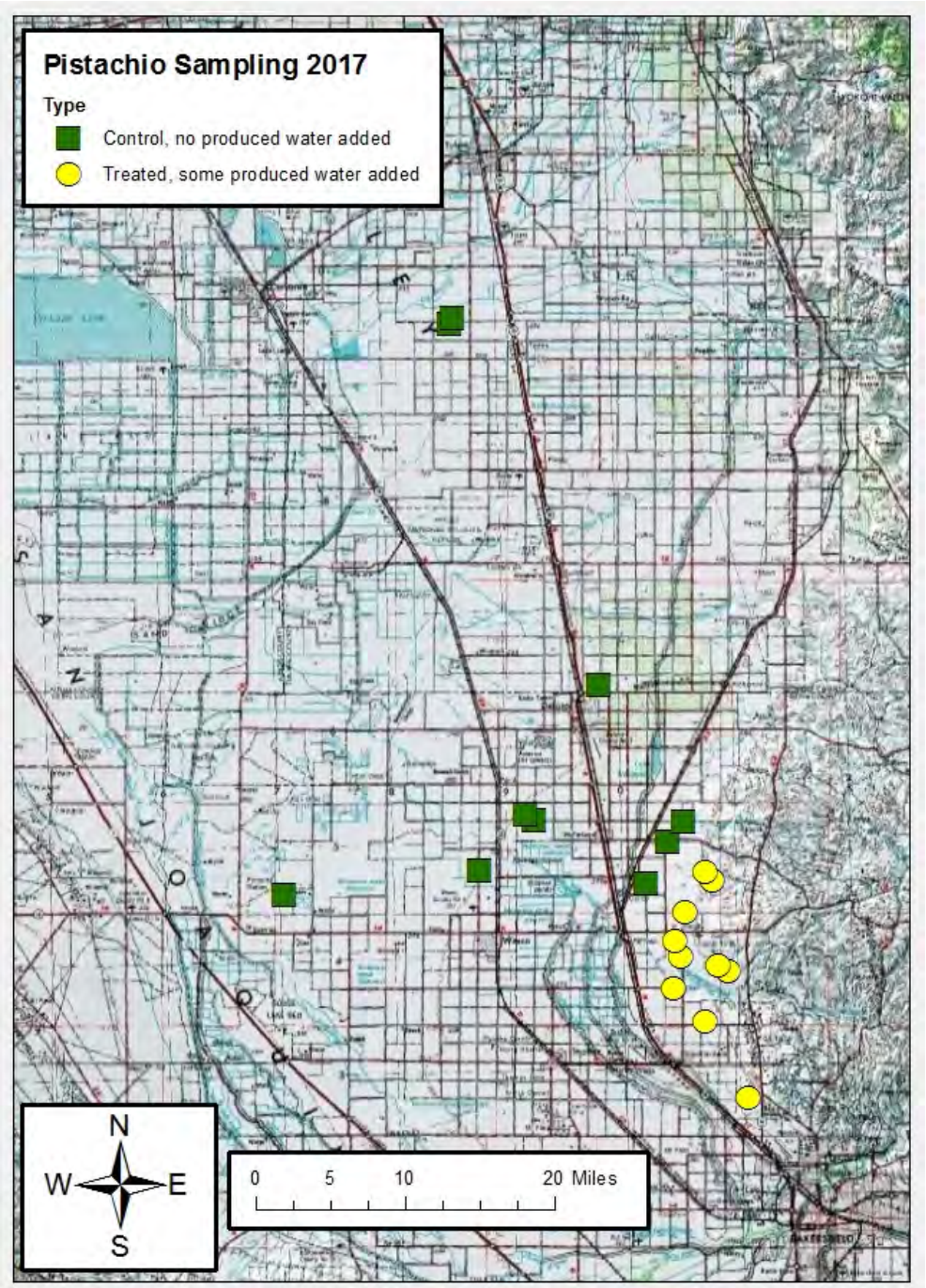
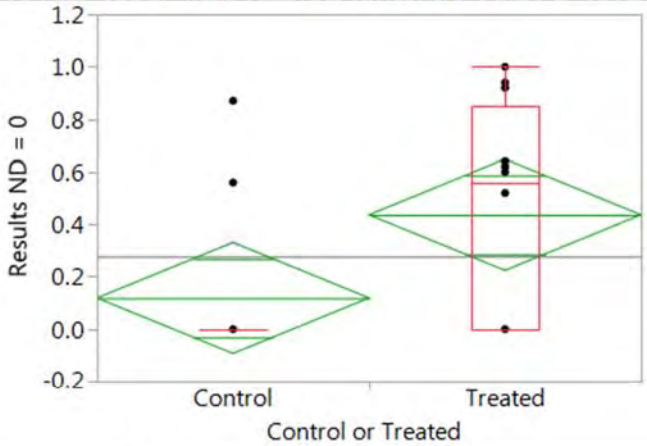


Figure 1. Map of sampling locations.

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



Oneway Anova

Summary of Fit

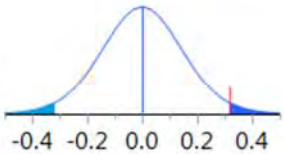
Rsquare	0.179413
Adj Rsquare	0.142114
Root Mean Square Error	0.354603
Mean of Response	0.277917
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	0.317500	t Ratio	2.193191
Std Err Dif	0.144766	DF	22
Upper CL Dif	0.617727	Prob > |t|	0.0392*
Lower CL Dif	0.017273	Prob > t	0.0196*
Confidence	0.95	Prob < t	0.9804



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	0.6048375	0.604837	4.8101	0.0392*
Error	22	2.7663583	0.125744		
C. Total	23	3.3711958			

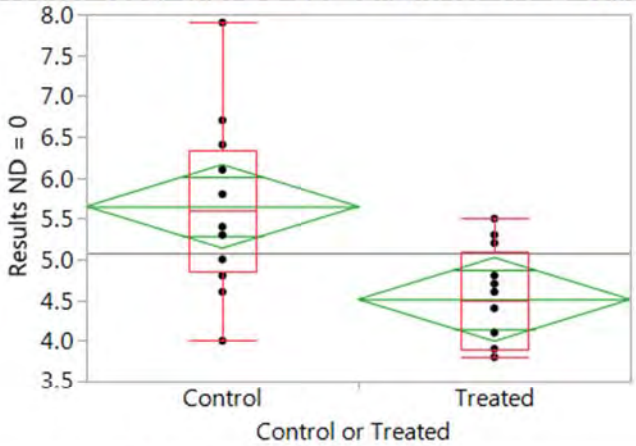
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	0.119167	0.10237	-0.0931	0.33146
Treated	12	0.436667	0.10237	0.2244	0.64896

Std Error uses a pooled estimate of error variance

Figure 2. Comparison of concentrations of total barium in pistachios between treated and controls. Results show that pistachios from areas that received produced water (treated) had significantly higher barium concentrations on average than pistachios 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=Pistachio, ANALYTE=Copper, Total



Oneway Anova

Summary of Fit

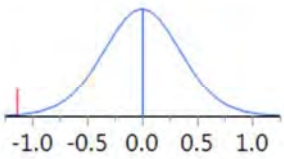
Rsquare	0.3264
Adj Rsquare	0.295782
Root Mean Square Error	0.856504
Mean of Response	5.079167
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	-1.1417	t Ratio	-3.26502
Std Err Dif	0.3497	DF	22
Upper CL Dif	-0.4165	Prob > |t|	0.0035*
Lower CL Dif	-1.8668	Prob > t	0.9982
Confidence	0.95	Prob < t	0.0018*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	7.820417	7.82042	10.6604	0.0035*
Error	22	16.139167	0.73360		
C. Total	23	23.959583			

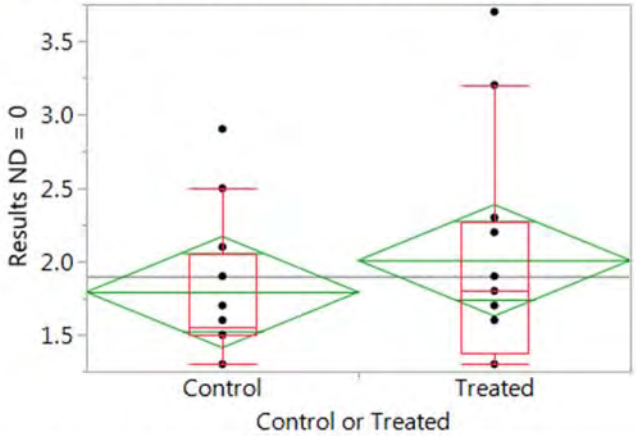
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	5.65000	0.24725	5.1372	6.1628
Treated	12	4.50833	0.24725	3.9956	5.0211

Std Error uses a pooled estimate of error variance

Figure 3. Comparison of concentrations of total copper in pistachios between treated and controls. Results show that pistachios from areas that received produced water (treated) had significantly lower copper concentrations on average than pistachios 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=Pistachio, ANALYTE=Strontium, Total



Oneway Anova

Summary of Fit

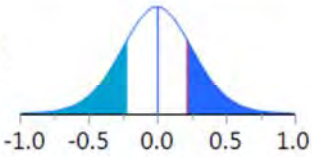
Rsquare	0.030952
Adj Rsquare	-0.0131
Root Mean Square Error	0.633114
Mean of Response	1.9
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	0.21667	t Ratio	0.838274
Std Err Dif	0.25847	DF	22
Upper CL Dif	0.75270	Prob > |t|	0.4109
Lower CL Dif	-0.31936	Prob > t	0.2054
Confidence	0.95	Prob < t	0.7946



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	0.2816667	0.281667	0.7027	0.4109
Error	22	8.8183333	0.400833		
C. Total	23	9.1000000			

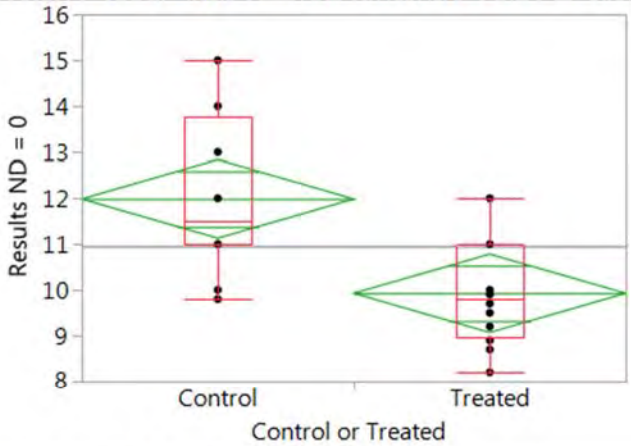
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	1.79167	0.18276	1.4126	2.1707
Treated	12	2.00833	0.18276	1.6293	2.3874

Std Error uses a pooled estimate of error variance

Figure 4. Comparison of concentrations of total strontium in pistachios between treated and controls. Results show that pistachios from areas that received produced water (treated) did not have significantly higher strontium concentrations on average than pistachios 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=Pistachio, ANALYTE=Zinc, Total



Oneway Anova

Summary of Fit

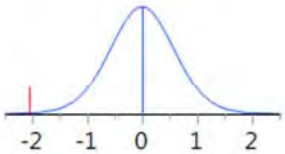
Rsquare	0.361498
Adj Rsquare	0.332476
Root Mean Square Error	1.428591
Mean of Response	10.95417
Observations (or Sum Wgts)	24

t Test

Treated-Control

Assuming equal variances

Difference	-2.0583	t Ratio	-3.52926
Std Err Dif	0.5832	DF	22
Upper CL Dif	-0.8488	Prob > |t|	0.0019*
Lower CL Dif	-3.2679	Prob > t	0.9991
Confidence	0.95	Prob < t	0.0009*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	25.420417	25.4204	12.4557	0.0019*
Error	22	44.899167	2.0409		
C. Total	23	70.319583			

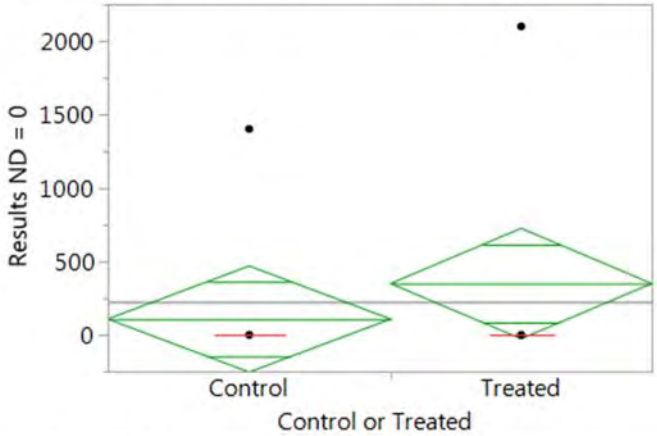
Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	12	11.9833	0.41240	11.128	12.839
Treated	12	9.9250	0.41240	9.070	10.780

Std Error uses a pooled estimate of error variance

Figure 5. Comparison of concentrations of total zinc in pistachios between treated and controls. Results show that pistachios from areas that received produced water (treated) had significantly lower zinc concentrations on average than pistachios 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).

Oneway Analysis of Results ND = 0 By Control or Treated Crop Type 2=Pistachio, ANALYTE=Acetone



Oneway Anova

Summary of Fit

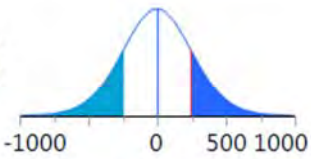
Rsquare	0.038462
Adj Rsquare	-0.00334
Root Mean Square Error	631.0526
Mean of Response	224
Observations (or Sum Wgts)	25

t Test

Treated-Control

Assuming equal variances

Difference	242.31	t Ratio	0.959166
Std Err Dif	252.62	DF	23
Upper CL Dif	764.90	Prob > |t|	0.3475
Lower CL Dif	-280.28	Prob > t	0.1737
Confidence	0.95	Prob < t	0.8263



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Control or Treated	1	366369.2	366369	0.9200	0.3475
Error	23	9159230.8	398227		
C. Total	24	9525600.0			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Control	13	107.692	175.02	-254.4	469.75
Treated	12	350.000	182.17	-26.8	726.85

Std Error uses a pooled estimate of error variance

Figure 6. Comparison of concentrations of acetone concentration in pistachios between treated and controls. Results show that pistachios from areas that received produced water (treated) had acetone concentrations that were not significantly different on average than pistachios from areas that did not receive produced water (controls).

Appendix A - Chain of Custody & Analytical Results

COCs and Results Included in this Report:

COC Number	Sample Name	Crop Type
7I07045	Pis00-20170906-0905	Pistachio
7I07045	Pis02-20170906-637	Pistachio
7I07045	Pis03-20170906-0715	Pistachio
7I07045	Pis06-20170906-0747	Pistachio
7I07045	Pis07-20170906-0825	Pistachio
7I07045	Pis11-20170906-0858	Pistachio
7I07045	Pis12-20170906-1319	Pistachio
7I07045	Pis13-20170906-1240	Pistachio
7I07045	Pis18-20170906-1107	Pistachio
7I07045	Pis19-20170906-1139	Pistachio
7I07045	Pis20-20170906-1013	Pistachio
7I07045	Pis21-20170906-645	Pistachio
7I07045	Quality Control Results	
7I08037	Pis00-20170907-1032	Pistachio
7I08037	Pis01-20170907-1335	Pistachio
7I08037	Pis04-20170907-0643	Pistachio
7I08037	Pis05-20170907-0721	Pistachio
7I08037	Pis08-20170907-0800	Pistachio
7I08037	Pis09-20170907-0832	Pistachio
7I08037	Pis10-20170907-0905	Pistachio
7I08037	Pis14-20170907-1107	Pistachio
7I08037	Pis15-20170907-1023	Pistachio
7I08037	Pis16-20170907-1141	Pistachio
7I08037	Pis17-20170907-1223	Pistachio
7I08037	Pis21-20170907-0652	Pistachio
7I08037	Quality Control Results	

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Standard CHAIN OF CUSTODY RECORD

WECK WKO# 7I07045

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

SAMPLER: April Soreaux / AEC

ANALYSES REQUESTED

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

Charges will apply for weekends/holidays
Method of Shipment:
COMMENTS

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)
	9/6/17	0637	OT		PIS02-20170906-0637	1	/	/	/	/
	9/6/17	0645	OT		PIS21-20170906-0645	1	/	/	/	/
	9/6/17	0715	OT		PIS03-20170906-0715	1	/	/	/	/
	9/6/17	0747	OT		PIS06-20170906-0747	1	/	/	/	/
	9/6/17	0825	OT		PIS07-20170906-0825	1	/	/	/	/
	9/6/17	0858	OT		PIS11-20170906-0858	1	/	/	/	/
	9/6/17	0905	OT		PIS00-20170906-0905	1	/	/	/	/
	9/6/17	1013	OT		PIS20-20170906-1013	1	/	/	/	/
	9/6/17	1107	OT		PIS18-20170906-1107	1	/	/	/	/
	9/6/17	1139	OT		PIS19-20170906-1139	1	/	/	/	/
	9/6/17	1240	OT		PIS13-20170906-1240	1	/	/	/	/
	9/6/17	1319	OT		PIS12-20170906-1319	1	/	/	/	/

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

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

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
April Soreaux	9/6/17 1415	RWQCB	9/6/17 1416
RWQCB	9/6/17 1417	FedEx # 787640503644	9/6/17 1418
FedEx			9/7/17 1018

SAMPLE CONDITION:
Actual Temperature: 73°
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
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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.

7108037

Standard CHAIN OF CUSTODY RECORD

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WECK WKO#

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

SAMPLER: Annie Sabeaux / AEC

ANALYSES REQUESTED

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

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)
	9/7/17	0643	OT		PIS04-20170907-0643	1	✓	✓	✓	✓
	9/7/17	0652	OT		PIS21-20170907-0652	1	✓	✓	✓	✓
	9/7/17	0721	OT		PIS05-20170907-0721	1	✓	✓	✓	✓
	9/7/17	0800	OT		PIS08-20170907-0800	1	✓	✓	✓	✓
	9/7/17	0832	OT		PIS09-20170907-0832	1	✓	✓	✓	✓
	9/7/17	0905	OT		PIS10-20170907-0905	1	✓	✓	✓	✓
	9/7/17	1023	OT		PIS15-20170907-1023	1	✓	✓	✓	✓
	9/7/17	1032	OT		PIS00-20170907-1032	1	✓	✓	✓	✓
	9/7/17	1107	OT		PIS14-20170907-1107	1	✓	✓	✓	✓
	9/7/17	1141	OT		PIS16-20170907-1141	1	✓	✓	✓	✓
	9/7/17	1223	OT		PIS17-20170907-1223	1	✓	✓	✓	✓
	9/7/17	1335	OT		PIS01-20170907-1335	1	✓	✓	✓	✓

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

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

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
Annie Sabeaux	9/7/17 1419	RWQCB	9/7/17 1419
RWQCB	9/7/17 1421	Confirmation No. FedEx 7876 5484 5038	
FedEx		Jamey Jones	9/8/17 0944

SAMPLE CONDITION:
Actual Temperature: 5.7 °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
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SPECIAL REQUIREMENTS / BILLING INFORMATION

COC version 042707

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	7I07045	**Report Date:**	11/09/2017
		Received Date:	9/7/2017
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

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 9/07/17 with the Chain-of-Custody document. The samples were received in good condition, at 7.3 °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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www.wecklabs.com

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

Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported:
11/09/2017 13:45

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Pis02-20170906-637	April Saceaux	7I07045-01	Solid	09/06/17 06:37	
Pis21-20170906-645	April Saceaux	7I07045-02	Solid	09/06/17 06:45	
Pis03-20170906-0715	April Saceaux	7I07045-03	Solid	09/06/17 07:15	
Pis06-20170906-0747	April Saceaux	7I07045-04	Solid	09/06/17 07:47	
Pis07-20170906-0825	April Saceaux	7I07045-05	Solid	09/06/17 08:25	
Pis11-20170906-0858	April Saceaux	7I07045-06	Solid	09/06/17 08:58	
Pis00-20170906-0905	April Saceaux	7I07045-07	Solid	09/06/17 09:05	
Pis20-20170906-1013	April Saceaux	7I07045-08	Solid	09/06/17 10:13	
Pis18-20170906-1107	April Saceaux	7I07045-09	Solid	09/06/17 11:07	
Pis19-20170906-1139	April Saceaux	7I07045-10	Solid	09/06/17 11:39	
Pis13-20170906-1240	April Saceaux	7I07045-11	Solid	09/06/17 12:40	
Pis12-20170906-1319	April Saceaux	7I07045-12	Solid	09/06/17 13:19	

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Bakersfield, CA 93301

Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 11/09/2017 13:45

Sample Results

Sample: Pis02-20170906-637 — Sampled: 09/06/17 6:37 by April Saceaux

7I07045-01 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	180	mg/kg	10	10/17/17 15:29	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:33	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 21:42	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 21:42	
Barium, Total	**1.0**	0.50	mg/kg	1	10/18/17 21:42	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 18:34	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 21:42	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 21:42	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 21:42	
Copper, Total	**4.7**	0.50	mg/kg	1	10/18/17 21:42	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 21:42	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 21:42	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 18:34	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 21:42	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 21:42	
Strontium, Total	**3.7**	0.50	mg/kg	1	10/18/17 21:42	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 18:34	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 18:34	
Zinc, Total	**10**	5.0	mg/kg	1	10/18/17 21:42	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.41	mg/kg	1	10/12/17 19:16	M-02
Carbazole	ND	0.41	mg/kg	1	10/12/17 19:16	M-02
Phenol	ND	0.41	mg/kg	1	10/12/17 19:16	M-02
Pyridine	ND	0.83	mg/kg	1	10/12/17 19:16	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*60% Conc: 2.49*	*32-103*			*10/12/17 19:16*	*M-02*
2-Fluorobiphenyl	*55% Conc: 1.14*	*36-107*			*10/12/17 19:16*	*M-02*
2-Fluorophenol	*49% Conc: 2.01*	*33-119*			*10/12/17 19:16*	*M-02*
Nitrobenzene-d5	*43% Conc: 0.889*	*36-114*			*10/12/17 19:16*	*M-02*
Phenol-d5	*67% Conc: 2.77*	*40-118*			*10/12/17 19:16*	*M-02*
Terphenyl-d14	*24% Conc: 0.499*	*40-121*			*10/12/17 19:16*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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

Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis02-20170906-637 — Sampled: 09/06/17 6:37 by April Saceaux

7I07045-01 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	62	ug/kg	1	10/11/17 01:33	M-02
2-Methylnaphthalene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Acenaphthene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Acenaphthylene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Anthracene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Benzo (a) anthracene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Benzo (a) pyrene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Benzo (b) fluoranthene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Benzo (g,h,i) perylene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Benzo (k) fluoranthene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Chrysene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Dibenzo (a,h) anthracene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Fluoranthene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Fluorene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Indeno (1,2,3-cd) pyrene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Naphthalene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Phenanthrene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Pyrene	ND	62	ug/kg	1	10/11/17 01:33	M-02
Surrogate(s)						
2-Fluorobiphenyl	*62% Conc: 1290*	*0.1-109*			*10/11/17 01:33*	*M-02*
Nitrobenzene-d5	*50% Conc: 1030*	*0.1-107*			*10/11/17 01:33*	*M-02*
Terphenyl-d14	*75% Conc: 1540*	*28-128*			*10/11/17 01:33*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0181	**Prepared:** 10/04/17 08:52				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/09/17 20:20	M-05

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2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis02-20170906-637
7I07045-01 (Solid)

Sampled: 09/06/17 6:37 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	10/09/17 20:20	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
2-Butanone	ND	1200	ug/kg	50	10/09/17 20:20	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/09/17 20:20	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
2-Hexanone	ND	1200	ug/kg	50	10/09/17 20:20	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Acetone	**2100**	1200	ug/kg	50	10/09/17 20:20	M-05
Acrolein	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Benzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Bromobenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Bromoform	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Bromomethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Chloroethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Chloroform	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Chloromethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Dibromomethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Methylene chloride	ND	1200	ug/kg	50	10/09/17 20:20	M-05

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Sample Results

(Continued)

Sample: Pis02-20170906-637
7I07045-01 (Solid)

Sampled: 09/06/17 6:37 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
o-Xylene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Styrene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Toluene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Trichloroethene	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/09/17 20:20	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*89%*	*Conc: 216*	*78-140*		*10/09/17 20:20*	
4-Bromofluorobenzene	*94%*	*Conc: 227*	*85-116*		*10/09/17 20:20*	
Dibromofluoromethane	*91%*	*Conc: 220*	*84-120*		*10/09/17 20:20*	
Toluene-d8	*109%*	*Conc: 263*	*82-120*		*10/09/17 20:20*	

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Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis21-20170906-645 — Sampled: 09/06/17 6:45 by April Saceaux

7I07045-02 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	220	mg/kg	10	10/17/17 15:41	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:36	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 21:49	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 21:49	
Barium, Total	**0.92**	0.50	mg/kg	1	10/18/17 21:49	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 18:41	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 21:49	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 21:49	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 21:49	
Copper, Total	**4.4**	0.50	mg/kg	1	10/18/17 21:49	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 21:49	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 21:49	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 18:41	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 21:49	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 21:49	
Strontium, Total	**3.2**	0.50	mg/kg	1	10/18/17 21:49	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 18:41	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 18:41	
Zinc, Total	**9.5**	5.0	mg/kg	1	10/18/17 21:49	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.46	mg/kg	1	10/12/17 19:46	M-02
Carbazole	ND	0.46	mg/kg	1	10/12/17 19:46	M-02
Phenol	ND	0.46	mg/kg	1	10/12/17 19:46	M-02
Pyridine	ND	0.92	mg/kg	1	10/12/17 19:46	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*55% Conc: 2.52*	*32-103*			*10/12/17 19:46*	*M-02*
2-Fluorobiphenyl	*54% Conc: 1.24*	*36-107*			*10/12/17 19:46*	*M-02*
2-Fluorophenol	*48% Conc: 2.19*	*33-119*			*10/12/17 19:46*	*M-02*
Nitrobenzene-d5	*40% Conc: 0.918*	*36-114*			*10/12/17 19:46*	*M-02*
Phenol-d5	*69% Conc: 3.20*	*40-118*			*10/12/17 19:46*	*M-02*
Terphenyl-d14	*18% Conc: 0.416*	*40-121*			*10/12/17 19:46*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis21-20170906-645 — Sampled: 09/06/17 6:45 by April Saceaux

7I07045-02 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	69	ug/kg	1	10/11/17 02:08	M-02
2-Methylnaphthalene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Acenaphthene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Acenaphthylene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Anthracene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Benzo (a) anthracene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Benzo (a) pyrene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Benzo (b) fluoranthene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Benzo (g,h,i) perylene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Benzo (k) fluoranthene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Chrysene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Dibenzo (a,h) anthracene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Fluoranthene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Fluorene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Indeno (1,2,3-cd) pyrene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Naphthalene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Phenanthrene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Pyrene	ND	69	ug/kg	1	10/11/17 02:08	M-02
Surrogate(s)						
2-Fluorobiphenyl	*62%*	*Conc: 1430*	*0.1-109*		*10/11/17 02:08*	*M-02*
Nitrobenzene-d5	*48%*	*Conc: 1100*	*0.1-107*		*10/11/17 02:08*	*M-02*
Terphenyl-d14	*67%*	*Conc: 1550*	*28-128*		*10/11/17 02:08*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0181	**Prepared:** 10/04/17 08:52				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/09/17 20:50	M-05

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Sample Results

(Continued)

Sample: Pis21-20170906-645
7I07045-02 (Solid)

Sampled: 09/06/17 6:45 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	10/09/17 20:50	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
2-Butanone	ND	1200	ug/kg	50	10/09/17 20:50	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/09/17 20:50	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
2-Hexanone	ND	1200	ug/kg	50	10/09/17 20:50	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Acetone	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Acrolein	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Benzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Bromobenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Bromoform	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Bromomethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Chloroethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Chloroform	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Chloromethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Dibromomethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Methylene chloride	ND	1200	ug/kg	50	10/09/17 20:50	M-05

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Sample Results

(Continued)

Sample: Pis21-20170906-645
7I07045-02 (Solid)

Sampled: 09/06/17 6:45 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
o-Xylene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Styrene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Toluene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Trichloroethene	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/09/17 20:50	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*93%*	*Conc: 230*	*78-140*		*10/09/17 20:50*	
4-Bromofluorobenzene	*93%*	*Conc: 229*	*85-116*		*10/09/17 20:50*	
Dibromofluoromethane	*93%*	*Conc: 230*	*84-120*		*10/09/17 20:50*	
Toluene-d8	*109%*	*Conc: 270*	*82-120*		*10/09/17 20:50*	

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Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis03-20170906-0715 — Sampled: 09/06/17 7:15 by April Saceaux

7I07045-03 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	190	mg/kg	10	10/17/17 15:50	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:39	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 21:56	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 21:56	
Barium, Total	ND	0.50	mg/kg	1	10/18/17 21:56	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 18:48	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 21:56	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 21:56	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 21:56	
Copper, Total	**3.8**	0.50	mg/kg	1	10/18/17 21:56	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 21:56	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 21:56	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 18:48	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 21:56	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 21:56	
Strontium, Total	**1.3**	0.50	mg/kg	1	10/18/17 21:56	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 18:48	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 18:48	
Zinc, Total	**8.2**	5.0	mg/kg	1	10/18/17 21:56	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.50	mg/kg	1	10/12/17 20:16	M-02
Carbazole	ND	0.50	mg/kg	1	10/12/17 20:16	M-02
Phenol	ND	0.50	mg/kg	1	10/12/17 20:16	M-02
Pyridine	ND	0.99	mg/kg	1	10/12/17 20:16	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*42% Conc: 2.10*	*32-103*			*10/12/17 20:16*	*M-02*
2-Fluorobiphenyl	*62% Conc: 1.53*	*36-107*			*10/12/17 20:16*	*M-02*
2-Fluorophenol	*42% Conc: 2.08*	*33-119*			*10/12/17 20:16*	*M-02*
Nitrobenzene-d5	*38% Conc: 0.932*	*36-114*			*10/12/17 20:16*	*M-02*
Phenol-d5	*66% Conc: 3.25*	*40-118*			*10/12/17 20:16*	*M-02*
Terphenyl-d14	*11% Conc: 0.271*	*40-121*			*10/12/17 20:16*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Pis03-20170906-0715 — Sampled: 09/06/17 7:15 by April Saceaux

7I07045-03 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	74	ug/kg	1	10/11/17 02:42	M-02
2-Methylnaphthalene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Acenaphthene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Acenaphthylene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Anthracene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Benzo (a) anthracene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Benzo (a) pyrene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Benzo (b) fluoranthene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Benzo (g,h,i) perylene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Benzo (k) fluoranthene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Chrysene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Dibenzo (a,h) anthracene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Fluoranthene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Fluorene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Indeno (1,2,3-cd) pyrene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Naphthalene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Phenanthrene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Pyrene	ND	74	ug/kg	1	10/11/17 02:42	M-02
Surrogate(s)						
2-Fluorobiphenyl	*70%*	*Conc: 1730*	*0.1-109*		*10/11/17 02:42*	*M-02*
Nitrobenzene-d5	*46%*	*Conc: 1130*	*0.1-107*		*10/11/17 02:42*	*M-02*
Terphenyl-d14	*55%*	*Conc: 1360*	*28-128*		*10/11/17 02:42*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0181	**Prepared:** 10/04/17 08:52				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/09/17 21:21	M-05

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Sample Results

(Continued)

Sample: Pis03-20170906-0715
7I07045-03 (Solid)

Sampled: 09/06/17 7:15 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	10/09/17 21:21	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
2-Butanone	ND	1200	ug/kg	50	10/09/17 21:21	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/09/17 21:21	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
2-Hexanone	ND	1200	ug/kg	50	10/09/17 21:21	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Acetone	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Acrolein	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Benzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Bromobenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Bromoform	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Bromomethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Chloroethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Chloroform	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Chloromethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Dibromomethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Methylene chloride	ND	1200	ug/kg	50	10/09/17 21:21	M-05

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Sample Results

(Continued)

Sample: Pis03-20170906-0715
7I07045-03 (Solid)

Sampled: 09/06/17 7:15 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
o-Xylene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Styrene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Toluene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Trichloroethene	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/09/17 21:21	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*97%*	*Conc: 229*	*78-140*		*10/09/17 21:21*	
4-Bromofluorobenzene	*93%*	*Conc: 220*	*85-116*		*10/09/17 21:21*	
Dibromofluoromethane	*96%*	*Conc: 228*	*84-120*		*10/09/17 21:21*	
Toluene-d8	*109%*	*Conc: 259*	*82-120*		*10/09/17 21:21*	

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Sample Results

(Continued)

Sample: Pis06-20170906-0747 — Sampled: 09/06/17 7:47 by April Saceaux

7I07045-04 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	200	mg/kg	10	10/17/17 17:08	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:42	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 22:03	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 22:03	
Barium, Total	ND	0.50	mg/kg	1	10/18/17 22:03	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 18:55	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 22:03	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 22:03	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 22:03	
Copper, Total	**5.3**	0.50	mg/kg	1	10/18/17 22:03	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 22:03	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 22:03	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 18:55	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 22:03	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 22:03	
Strontium, Total	**1.3**	0.50	mg/kg	1	10/18/17 22:03	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 18:55	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 18:55	
Zinc, Total	**11**	5.0	mg/kg	1	10/18/17 22:03	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.43	mg/kg	1	10/12/17 20:46	M-02
Carbazole	ND	0.43	mg/kg	1	10/12/17 20:46	M-02
Phenol	ND	0.43	mg/kg	1	10/12/17 20:46	M-02
Pyridine	ND	0.86	mg/kg	1	10/12/17 20:46	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*40% Conc: 1.73*	*32-103*			*10/12/17 20:46*	*M-02*
2-Fluorobiphenyl	*45% Conc: 0.969*	*36-107*			*10/12/17 20:46*	*M-02*
2-Fluorophenol	*43% Conc: 1.87*	*33-119*			*10/12/17 20:46*	*M-02*
Nitrobenzene-d5	*38% Conc: 0.806*	*36-114*			*10/12/17 20:46*	*M-02*
Phenol-d5	*65% Conc: 2.78*	*40-118*			*10/12/17 20:46*	*M-02*
Terphenyl-d14	*10% Conc: 0.208*	*40-121*			*10/12/17 20:46*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis06-20170906-0747 — Sampled: 09/06/17 7:47 by April Saceaux

7I07045-04 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	64	ug/kg	1	10/11/17 03:15	M-02
2-Methylnaphthalene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Acenaphthene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Acenaphthylene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Anthracene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Benzo (a) anthracene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Benzo (a) pyrene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Benzo (b) fluoranthene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Benzo (g,h,i) perylene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Benzo (k) fluoranthene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Chrysene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Dibenzo (a,h) anthracene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Fluoranthene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Fluorene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Indeno (1,2,3-cd) pyrene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Naphthalene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Phenanthrene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Pyrene	ND	64	ug/kg	1	10/11/17 03:15	M-02
Surrogate(s)						
2-Fluorobiphenyl	*55%*	*Conc: 1190*	*0.1-109*		*10/11/17 03:15*	*M-02*
Nitrobenzene-d5	*44%*	*Conc: 945*	*0.1-107*		*10/11/17 03:15*	*M-02*
Terphenyl-d14	*53%*	*Conc: 1130*	*28-128*		*10/11/17 03:15*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0181	**Prepared:** 10/04/17 08:52				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/09/17 21:52	M-05

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Sample Results

(Continued)

Sample: Pis06-20170906-0747
7I07045-04 (Solid)

Sampled: 09/06/17 7:47 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	10/09/17 21:52	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
2-Butanone	ND	1200	ug/kg	50	10/09/17 21:52	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/09/17 21:52	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
2-Hexanone	ND	1200	ug/kg	50	10/09/17 21:52	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Acetone	**2100**	1200	ug/kg	50	10/09/17 21:52	M-05
Acrolein	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Benzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Bromobenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Bromoform	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Bromomethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Chloroethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Chloroform	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Chloromethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Dibromomethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Methylene chloride	ND	1200	ug/kg	50	10/09/17 21:52	M-05

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Sample Results

(Continued)

Sample: Pis06-20170906-0747
7I07045-04 (Solid)

Sampled: 09/06/17 7:47 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
o-Xylene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Styrene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Toluene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Trichloroethene	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/09/17 21:52	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*95%*	*Conc: 224*	*78-140*		*10/09/17 21:52*	
4-Bromofluorobenzene	*91%*	*Conc: 214*	*85-116*		*10/09/17 21:52*	
Dibromofluoromethane	*95%*	*Conc: 223*	*84-120*		*10/09/17 21:52*	
Toluene-d8	*107%*	*Conc: 252*	*82-120*		*10/09/17 21:52*	

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Project Manager: Robert Hartsock

Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis07-20170906-0825 — Sampled: 09/06/17 8:25 by April Saceaux

7I07045-05 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	220	mg/kg	10	10/17/17 18:31	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:45	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 22:11	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 22:11	
Barium, Total	**0.94**	0.50	mg/kg	1	10/18/17 22:11	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 19:03	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 22:11	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 22:11	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 22:11	
Copper, Total	**3.9**	0.50	mg/kg	1	10/18/17 22:11	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 22:11	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 22:11	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 19:03	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 22:11	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 22:11	
Strontium, Total	**1.3**	0.50	mg/kg	1	10/18/17 22:11	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 19:03	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 19:03	
Zinc, Total	**8.9**	5.0	mg/kg	1	10/18/17 22:11	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.46	mg/kg	1	10/12/17 21:16	M-02
Carbazole	ND	0.46	mg/kg	1	10/12/17 21:16	M-02
Phenol	ND	0.46	mg/kg	1	10/12/17 21:16	M-02
Pyridine	ND	0.91	mg/kg	1	10/12/17 21:16	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*36% Conc: 1.66*	*32-103*			*10/12/17 21:16*	*M-02*
2-Fluorobiphenyl	*43% Conc: 0.977*	*36-107*			*10/12/17 21:16*	*M-02*
2-Fluorophenol	*48% Conc: 2.20*	*33-119*			*10/12/17 21:16*	*M-02*
Nitrobenzene-d5	*41% Conc: 0.927*	*36-114*			*10/12/17 21:16*	*M-02*
Phenol-d5	*64% Conc: 2.91*	*40-118*			*10/12/17 21:16*	*M-02*
Terphenyl-d14	*9% Conc: 0.203*	*40-121*			*10/12/17 21:16*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis07-20170906-0825 — Sampled: 09/06/17 8:25 by April Saceaux

7I07045-05 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	68	ug/kg	1	10/11/17 03:49	M-02
2-Methylnaphthalene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Acenaphthene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Acenaphthylene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Anthracene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Benzo (a) anthracene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Benzo (a) pyrene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Benzo (b) fluoranthene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Benzo (g,h,i) perylene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Benzo (k) fluoranthene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Chrysene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Dibenzo (a,h) anthracene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Fluoranthene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Fluorene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Indeno (1,2,3-cd) pyrene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Naphthalene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Phenanthrene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Pyrene	ND	68	ug/kg	1	10/11/17 03:49	M-02
Surrogate(s)						
2-Fluorobiphenyl	*54%*	*Conc: 1240*	*0.1-109*		*10/11/17 03:49*	*M-02*
Nitrobenzene-d5	*49%*	*Conc: 1110*	*0.1-107*		*10/11/17 03:49*	*M-02*
Terphenyl-d14	*50%*	*Conc: 1140*	*28-128*		*10/11/17 03:49*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0181	**Prepared:** 10/04/17 08:52				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/09/17 22:22	M-05

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Sample Results

(Continued)

Sample: Pis07-20170906-0825
7I07045-05 (Solid)

Sampled: 09/06/17 8:25 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	10/09/17 22:22	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
2-Butanone	ND	1200	ug/kg	50	10/09/17 22:22	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/09/17 22:22	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
2-Hexanone	ND	1200	ug/kg	50	10/09/17 22:22	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Acetone	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Acrolein	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Benzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Bromobenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Bromoform	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Bromomethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Chloroethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Chloroform	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Chloromethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Dibromomethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Methylene chloride	ND	1200	ug/kg	50	10/09/17 22:22	M-05

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Sample Results

(Continued)

Sample: Pis07-20170906-0825
7I07045-05 (Solid)

Sampled: 09/06/17 8:25 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
o-Xylene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Styrene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Toluene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Trichloroethene	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/09/17 22:22	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*88%*	*Conc: 219*	*78-140*		*10/09/17 22:22*	
4-Bromofluorobenzene	*92%*	*Conc: 228*	*85-116*		*10/09/17 22:22*	
Dibromofluoromethane	*89%*	*Conc: 221*	*84-120*		*10/09/17 22:22*	
Toluene-d8	*110%*	*Conc: 274*	*82-120*		*10/09/17 22:22*	

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Sample Results

(Continued)

Sample: Pis11-20170906-0858 — Sampled: 09/06/17 8:58 by April Saceaux

7I07045-06 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	210	mg/kg	10	10/17/17 19:06	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:48	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 22:18	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 22:18	
Barium, Total	ND	0.50	mg/kg	1	10/18/17 22:18	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 19:10	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 22:18	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 22:18	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 22:18	
Copper, Total	**5.8**	0.50	mg/kg	1	10/18/17 22:18	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 22:18	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 22:18	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 19:10	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 22:18	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 22:18	
Strontium, Total	**1.5**	0.50	mg/kg	1	10/18/17 22:18	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 19:10	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 19:10	
Zinc, Total	**11**	5.0	mg/kg	1	10/18/17 22:18	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	10/12/17 21:45	M-02
Carbazole	ND	0.45	mg/kg	1	10/12/17 21:45	M-02
Phenol	ND	0.45	mg/kg	1	10/12/17 21:45	M-02
Pyridine	ND	0.90	mg/kg	1	10/12/17 21:45	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*33% Conc: 1.51*	*32-103*			*10/12/17 21:45*	*M-02*
2-Fluorobiphenyl	*37% Conc: 0.837*	*36-107*			*10/12/17 21:45*	*M-02*
2-Fluorophenol	*41% Conc: 1.84*	*33-119*			*10/12/17 21:45*	*M-02*
Nitrobenzene-d5	*32% Conc: 0.734*	*36-114*			*10/12/17 21:45*	*M-02, S-GC*
Phenol-d5	*64% Conc: 2.88*	*40-118*			*10/12/17 21:45*	*M-02*
Terphenyl-d14	*7% Conc: 0.160*	*40-121*			*10/12/17 21:45*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis11-20170906-0858 — Sampled: 09/06/17 8:58 by April Saceaux

7I07045-06 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	68	ug/kg	1	10/11/17 04:24	M-02
2-Methylnaphthalene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Acenaphthene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Acenaphthylene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Anthracene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Benzo (a) anthracene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Benzo (a) pyrene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Benzo (b) fluoranthene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Benzo (g,h,i) perylene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Benzo (k) fluoranthene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Chrysene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Dibenzo (a,h) anthracene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Fluoranthene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Fluorene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Indeno (1,2,3-cd) pyrene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Naphthalene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Phenanthrene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Pyrene	ND	68	ug/kg	1	10/11/17 04:24	M-02
Surrogate(s)						
2-Fluorobiphenyl	*49%*	*Conc: 1100*	*0.1-109*		*10/11/17 04:24*	*M-02*
Nitrobenzene-d5	*41%*	*Conc: 928*	*0.1-107*		*10/11/17 04:24*	*M-02*
Terphenyl-d14	*47%*	*Conc: 1060*	*28-128*		*10/11/17 04:24*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0181	**Prepared:** 10/04/17 08:52				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/09/17 22:53	M-05

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Pis11-20170906-0858
7I07045-06 (Solid)

Sampled: 09/06/17 8:58 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	10/09/17 22:53	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
2-Butanone	ND	1200	ug/kg	50	10/09/17 22:53	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/09/17 22:53	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
2-Hexanone	ND	1200	ug/kg	50	10/09/17 22:53	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Acetone	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Acrolein	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Benzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Bromobenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Bromoform	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Bromomethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Chloroethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Chloroform	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Chloromethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Dibromomethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Methylene chloride	ND	1200	ug/kg	50	10/09/17 22:53	M-05

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Sample Results

(Continued)

Sample: Pis11-20170906-0858
7I07045-06 (Solid)

Sampled: 09/06/17 8:58 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
o-Xylene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Styrene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Toluene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Trichloroethene	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/09/17 22:53	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*81%*	*Conc: 199*	*78-140*		*10/09/17 22:53*	
4-Bromofluorobenzene	*98%*	*Conc: 239*	*85-116*		*10/09/17 22:53*	
Dibromofluoromethane	*80%*	*Conc: 195*	*84-120*		*10/09/17 22:53*	*S-11*
Toluene-d8	*112%*	*Conc: 275*	*82-120*		*10/09/17 22:53*	

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Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis00-20170906-0905 — Sampled: 09/06/17 9:05 by April Saceaux

7I07045-07 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	210	mg/kg	10	10/17/17 19:42	M-04, M-02
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:51	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 22:25	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 22:25	
Barium, Total	ND	0.50	mg/kg	1	10/18/17 22:25	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 19:17	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 22:25	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 22:25	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 22:25	
Copper, Total	**5.8**	0.50	mg/kg	1	10/18/17 22:25	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 22:25	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 22:25	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 19:17	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 22:25	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 22:25	
Strontium, Total	**1.7**	0.50	mg/kg	1	10/18/17 22:25	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 19:17	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 19:17	
Zinc, Total	**12**	5.0	mg/kg	1	10/18/17 22:25	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	10/12/17 22:16	M-02
Carbazole	ND	0.45	mg/kg	1	10/12/17 22:16	M-02
Phenol	ND	0.45	mg/kg	1	10/12/17 22:16	M-02
Pyridine	ND	0.90	mg/kg	1	10/12/17 22:16	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*30% Conc: 1.36*	*32-103*			*10/12/17 22:16*	*M-02, S-GC*
2-Fluorobiphenyl	*43% Conc: 0.978*	*36-107*			*10/12/17 22:16*	*M-02*
2-Fluorophenol	*40% Conc: 1.80*	*33-119*			*10/12/17 22:16*	*M-02*
Nitrobenzene-d5	*38% Conc: 0.857*	*36-114*			*10/12/17 22:16*	*M-02*
Phenol-d5	*64% Conc: 2.89*	*40-118*			*10/12/17 22:16*	*M-02*
Terphenyl-d14	*5% Conc: 0.102*	*40-121*			*10/12/17 22:16*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis00-20170906-0905 — Sampled: 09/06/17 9:05 by April Saceaux

7I07045-07 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	68	ug/kg	1	10/11/17 04:59	M-02
2-Methylnaphthalene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Acenaphthene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Acenaphthylene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Anthracene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Benzo (a) anthracene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Benzo (a) pyrene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Benzo (b) fluoranthene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Benzo (g,h,i) perylene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Benzo (k) fluoranthene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Chrysene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Dibenzo (a,h) anthracene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Fluoranthene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Fluorene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Indeno (1,2,3-cd) pyrene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Naphthalene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Phenanthrene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Pyrene	ND	68	ug/kg	1	10/11/17 04:59	M-02
Surrogate(s)						
2-Fluorobiphenyl	*54%*	*Conc: 1210*	*0.1-109*		*10/11/17 04:59*	*M-02*
Nitrobenzene-d5	*44%*	*Conc: 992*	*0.1-107*		*10/11/17 04:59*	*M-02*
Terphenyl-d14	*45%*	*Conc: 1010*	*28-128*		*10/11/17 04:59*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0181	**Prepared:** 10/04/17 08:52				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/09/17 23:24	M-05

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Sample Results

(Continued)

Sample: Pis00-20170906-0905
7I07045-07 (Solid)

Sampled: 09/06/17 9:05 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	10/09/17 23:24	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
2-Butanone	ND	1200	ug/kg	50	10/09/17 23:24	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/09/17 23:24	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
2-Hexanone	ND	1200	ug/kg	50	10/09/17 23:24	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Acetone	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Acrolein	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Benzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Bromobenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Bromoform	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Bromomethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Chloroethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Chloroform	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Chloromethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Dibromomethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Methylene chloride	ND	1200	ug/kg	50	10/09/17 23:24	M-05

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Sample Results

(Continued)

Sample: Pis00-20170906-0905
7I07045-07 (Solid)

Sampled: 09/06/17 9:05 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
o-Xylene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Styrene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Toluene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Trichloroethene	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/09/17 23:24	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*79%*	*Conc: 190*	*78-140*		*10/09/17 23:24*	
4-Bromofluorobenzene	*98%*	*Conc: 235*	*85-116*		*10/09/17 23:24*	
Dibromofluoromethane	*79%*	*Conc: 189*	*84-120*		*10/09/17 23:24*	*S-11*
Toluene-d8	*112%*	*Conc: 269*	*82-120*		*10/09/17 23:24*	

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Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis20-20170906-1013 — Sampled: 09/06/17 10:13 by April Saceaux

7I07045-08 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	240	mg/kg	10	10/17/17 20:17	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:54	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 22:32	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 22:32	
Barium, Total	ND	0.50	mg/kg	1	10/18/17 22:32	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 19:24	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 22:32	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 22:32	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 22:32	
Copper, Total	**7.9**	0.50	mg/kg	1	10/18/17 22:32	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 22:32	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 22:32	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 19:24	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 22:32	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 22:32	
Strontium, Total	**1.5**	0.50	mg/kg	1	10/18/17 22:32	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 19:24	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 19:24	
Zinc, Total	**14**	5.0	mg/kg	1	10/18/17 22:32	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.45	mg/kg	1	10/12/17 22:46	M-02
Carbazole	ND	0.45	mg/kg	1	10/12/17 22:46	M-02
Phenol	ND	0.45	mg/kg	1	10/12/17 22:46	M-02
Pyridine	ND	0.89	mg/kg	1	10/12/17 22:46	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*24% Conc: 1.08*	*32-103*			*10/12/17 22:46*	*M-02, S-GC*
2-Fluorobiphenyl	*49% Conc: 1.10*	*36-107*			*10/12/17 22:46*	*M-02*
2-Fluorophenol	*33% Conc: 1.47*	*33-119*			*10/12/17 22:46*	*M-02*
Nitrobenzene-d5	*29% Conc: 0.653*	*36-114*			*10/12/17 22:46*	*M-02, S-GC*
Phenol-d5	*60% Conc: 2.69*	*40-118*			*10/12/17 22:46*	*M-02*
Terphenyl-d14	*5% Conc: 0.101*	*40-121*			*10/12/17 22:46*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis20-20170906-1013 — Sampled: 09/06/17 10:13 by April Saceaux

7I07045-08 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	67	ug/kg	1	10/11/17 05:34	M-02
2-Methylnaphthalene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Acenaphthene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Acenaphthylene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Anthracene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Benzo (a) anthracene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Benzo (a) pyrene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Benzo (b) fluoranthene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Benzo (g,h,i) perylene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Benzo (k) fluoranthene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Chrysene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Dibenzo (a,h) anthracene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Fluoranthene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Fluorene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Indeno (1,2,3-cd) pyrene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Naphthalene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Phenanthrene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Pyrene	ND	67	ug/kg	1	10/11/17 05:34	M-02
Surrogate(s)						
2-Fluorobiphenyl	*61%*	*Conc: 1360*	*0.1-109*		*10/11/17 05:34*	*M-02*
Nitrobenzene-d5	*40%*	*Conc: 900*	*0.1-107*		*10/11/17 05:34*	*M-02*
Terphenyl-d14	*39%*	*Conc: 867*	*28-128*		*10/11/17 05:34*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0181	**Prepared:** 10/04/17 08:52				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/09/17 23:55	M-05

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Sample Results

(Continued)

Sample: Pis20-20170906-1013
7I07045-08 (Solid)

Sampled: 09/06/17 10:13 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	10/09/17 23:55	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
2-Butanone	ND	1200	ug/kg	50	10/09/17 23:55	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/09/17 23:55	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
2-Hexanone	ND	1200	ug/kg	50	10/09/17 23:55	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Acetone	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Acrolein	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Benzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Bromobenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Bromoform	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Bromomethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Chloroethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Chloroform	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Chloromethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Dibromomethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Methylene chloride	ND	1200	ug/kg	50	10/09/17 23:55	M-05

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Sample Results

(Continued)

Sample: Pis20-20170906-1013 — Sampled: 09/06/17 10:13 by April Saceaux

7I07045-08 (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	10/09/17 23:55	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
o-Xylene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Styrene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Toluene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Trichloroethene	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/09/17 23:55	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*70%*	*Conc: 173*	*78-140*		*10/09/17 23:55*	*M-05, S-04*
4-Bromofluorobenzene	*97%*	*Conc: 242*	*85-116*		*10/09/17 23:55*	*M-05*
Dibromofluoromethane	*68%*	*Conc: 170*	*84-120*		*10/09/17 23:55*	*M-05, S-04*
Toluene-d8	*121%*	*Conc: 301*	*82-120*		*10/09/17 23:55*	*M-05, S-04*

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Sample Results

(Continued)

Sample: Pis20-20170906-1013 — Sampled: 09/06/17 10:13 by April Saceaux

7I07045-08RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,2-Dichloroethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 02:53	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 02:53	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 02:53	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 02:53	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 02:53	M-05

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Sample Results

(Continued)

Sample: Pis20-20170906-1013
7I07045-08RE1 (Solid)

Sampled: 09/06/17 10:13 by April Saceaux

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Chloroform	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Chloromethane	ND		1200	ug/kg	50	10/14/17 02:53	M-05
cis-1,2-Dichloroethene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
cis-1,3-Dichloropropene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Dibromochloromethane	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Dibromomethane	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Dichlorodifluoromethane (Freon 12)	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Ethylbenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Hexachlorobutadiene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Isopropylbenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
m,p-Xylene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
m-Dichlorobenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Methyl tert-butyl ether (MTBE)	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Methylene chloride	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Naphthalene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
n-Butylbenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
n-Propylbenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
o-Dichlorobenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
o-Xylene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
p-Dichlorobenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
p-Isopropyltoluene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
sec-Butylbenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Styrene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
tert-Butylbenzene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Tetrachloroethene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Toluene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Trichloroethene	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Trichlorofluoromethane	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Vinyl chloride	ND		1200	ug/kg	50	10/14/17 02:53	M-05
Surrogate(s)							
1,2-Dichloroethane-d4	*90%*	*Conc: 222*	*78-140*			*10/14/17 02:53*	*M-05*
4-Bromofluorobenzene	*99%*	*Conc: 245*	*85-116*			*10/14/17 02:53*	*M-05*
Dibromofluoromethane	*93%*	*Conc: 229*	*84-120*			*10/14/17 02:53*	*M-05*
Toluene-d8	*99%*	*Conc: 246*	*82-120*			*10/14/17 02:53*	*M-05*

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Sample Results

(Continued)

Sample: Pis18-20170906-1107 — Sampled: 09/06/17 11:07 by April Saceaux

7I07045-09 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	210	mg/kg	10	10/17/17 20:52	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 12:57	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 22:40	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 22:40	
Barium, Total	ND	0.50	mg/kg	1	10/18/17 22:40	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 19:32	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 22:40	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 22:40	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 22:40	
Copper, Total	**6.4**	0.50	mg/kg	1	10/18/17 22:40	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 22:40	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 22:40	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 19:32	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 22:40	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 22:40	
Strontium, Total	**1.5**	0.50	mg/kg	1	10/18/17 22:40	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 19:32	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 19:32	
Zinc, Total	**14**	5.0	mg/kg	1	10/18/17 22:40	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.48	mg/kg	1	10/12/17 23:15	M-02
Carbazole	ND	0.48	mg/kg	1	10/12/17 23:15	M-02
Phenol	ND	0.48	mg/kg	1	10/12/17 23:15	M-02
Pyridine	ND	0.96	mg/kg	1	10/12/17 23:15	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*23% Conc: 1.08*	*32-103*			*10/12/17 23:15*	*M-02, S-GC*
2-Fluorobiphenyl	*43% Conc: 1.04*	*36-107*			*10/12/17 23:15*	*M-02*
2-Fluorophenol	*34% Conc: 1.62*	*33-119*			*10/12/17 23:15*	*M-02*
Nitrobenzene-d5	*29% Conc: 0.683*	*36-114*			*10/12/17 23:15*	*S-GC, M-02*
Phenol-d5	*57% Conc: 2.73*	*40-118*			*10/12/17 23:15*	*M-02*
Terphenyl-d14	*3% Conc: 0.0742*	*40-121*			*10/12/17 23:15*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis18-20170906-1107
7I07045-09 (Solid)

Sampled: 09/06/17 11:07 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	72	ug/kg	1	10/11/17 06:08	M-02
2-Methylnaphthalene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Acenaphthene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Acenaphthylene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Anthracene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Benzo (a) anthracene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Benzo (a) pyrene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Benzo (b) fluoranthene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Benzo (g,h,i) perylene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Benzo (k) fluoranthene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Chrysene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Dibenzo (a,h) anthracene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Fluoranthene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Fluorene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Indeno (1,2,3-cd) pyrene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Naphthalene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Phenanthrene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Pyrene	ND	72	ug/kg	1	10/11/17 06:08	M-02
Surrogate(s)						
2-Fluorobiphenyl	*53%*	*Conc: 1270*	*0.1-109*		*10/11/17 06:08*	*M-02*
Nitrobenzene-d5	*39%*	*Conc: 926*	*0.1-107*		*10/11/17 06:08*	*M-02*
Terphenyl-d14	*36%*	*Conc: 872*	*28-128*		*10/11/17 06:08*	*M-02*

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Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis18-20170906-1107 — Sampled: 09/06/17 11:07 by April Saceaux

7I07045-09RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,2-Dichloroethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 03:20	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 03:20	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 03:20	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05

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Sample Results

(Continued)

Sample: Pis18-20170906-1107
7I07045-09RE1 (Solid)

Sampled: 09/06/17 11:07 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Chloroform	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Naphthalene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 03:20	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*89%*	*Conc: 215*	*78-140*		*10/14/17 03:20*	*M-05*
4-Bromofluorobenzene	*99%*	*Conc: 238*	*85-116*		*10/14/17 03:20*	*M-05*
Dibromofluoromethane	*91%*	*Conc: 219*	*84-120*		*10/14/17 03:20*	*M-05*
Toluene-d8	*100%*	*Conc: 240*	*82-120*		*10/14/17 03:20*	*M-05*

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Sample Results

(Continued)

Sample: Pis19-20170906-1139 — Sampled: 09/06/17 11:39 by April Saceaux

7I07045-10 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	220	mg/kg	10	10/17/17 21:28	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0573	**Prepared:** 09/12/17 11:17				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/18/17 13:00	
Method: EPA 6020B	**Batch ID:** W7I0574	**Prepared:** 09/12/17 11:19				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/18/17 22:47	
Arsenic, Total	ND	0.50	mg/kg	1	10/18/17 22:47	
Barium, Total	ND	0.50	mg/kg	1	10/18/17 22:47	
Beryllium, Total	ND	0.30	mg/kg	1	10/19/17 19:39	
Cadmium, Total	ND	0.20	mg/kg	1	10/18/17 22:47	
Chromium, Total	ND	1.0	mg/kg	1	10/18/17 22:47	
Cobalt, Total	ND	0.50	mg/kg	1	10/18/17 22:47	
Copper, Total	**4.0**	0.50	mg/kg	1	10/18/17 22:47	
Lead, Total	ND	0.50	mg/kg	1	10/18/17 22:47	
Molybdenum, Total	ND	0.50	mg/kg	1	10/18/17 22:47	
Nickel, Total	ND	1.0	mg/kg	1	10/19/17 19:39	
Selenium, Total	ND	0.50	mg/kg	1	10/18/17 22:47	
Silver, Total	ND	0.50	mg/kg	1	10/18/17 22:47	
Strontium, Total	**1.3**	0.50	mg/kg	1	10/18/17 22:47	
Thallium, Total	ND	0.50	mg/kg	1	10/19/17 19:39	
Vanadium, Total	ND	1.0	mg/kg	1	10/19/17 19:39	
Zinc, Total	**9.8**	5.0	mg/kg	1	10/18/17 22:47	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.44	mg/kg	1	10/12/17 23:46	M-02
Carbazole	ND	0.44	mg/kg	1	10/12/17 23:46	M-02
Phenol	ND	0.44	mg/kg	1	10/12/17 23:46	M-02
Pyridine	ND	0.89	mg/kg	1	10/12/17 23:46	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*16%*	*Conc: 0.706*	*32-103*		*10/12/17 23:46*	*M-02, S-04*
2-Fluorobiphenyl	*38%*	*Conc: 0.844*	*36-107*		*10/12/17 23:46*	*M-02*
2-Fluorophenol	*26%*	*Conc: 1.16*	*33-119*		*10/12/17 23:46*	*M-02, S-04*
Nitrobenzene-d5	*22%*	*Conc: 0.494*	*36-114*		*10/12/17 23:46*	*S-04, M-02*
Phenol-d5	*47%*	*Conc: 2.10*	*40-118*		*10/12/17 23:46*	*M-02*
Terphenyl-d14	*%*	*Conc: 0.00*	*40-121*		*10/12/17 23:46*	*M-02, S-04*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn

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Sample Results

(Continued)

Sample: Pis19-20170906-1139
7I07045-10 (Solid)

Sampled: 09/06/17 11:39 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
1-Methylnaphthalene	ND	67	ug/kg	1	10/11/17 06:43	M-02
2-Methylnaphthalene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Acenaphthene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Acenaphthylene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Anthracene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Benzo (a) anthracene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Benzo (a) pyrene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Benzo (b) fluoranthene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Benzo (g,h,i) perylene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Benzo (k) fluoranthene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Chrysene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Dibenzo (a,h) anthracene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Fluoranthene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Fluorene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Indeno (1,2,3-cd) pyrene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Naphthalene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Phenanthrene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Pyrene	ND	67	ug/kg	1	10/11/17 06:43	M-02
Surrogate(s)						
2-Fluorobiphenyl	*41%*	*Conc: 912*	*0.1-109*		*10/11/17 06:43*	*M-02*
Nitrobenzene-d5	*28%*	*Conc: 615*	*0.1-107*		*10/11/17 06:43*	*M-02*
Terphenyl-d14	*25%*	*Conc: 559*	*28-128*		*10/11/17 06:43*	*M-02*

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Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis19-20170906-1139 — Sampled: 09/06/17 11:39 by April Saceaux

7I07045-10RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,2-Dichloroethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 08:37	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 08:37	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 08:37	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis19-20170906-1139
7I07045-10RE1 (Solid)

Sampled: 09/06/17 11:39 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Chloroform	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Naphthalene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 08:37	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*97%*	*Conc: 236*	*78-140*		*10/14/17 08:37*	*M-05*
4-Bromofluorobenzene	*90%*	*Conc: 219*	*85-116*		*10/14/17 08:37*	*M-05*
Dibromofluoromethane	*98%*	*Conc: 237*	*84-120*		*10/14/17 08:37*	*M-05*
Toluene-d8	*89%*	*Conc: 217*	*82-120*		*10/14/17 08:37*	*M-05*

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Sample Results

(Continued)

Sample: Pis13-20170906-1240 — Sampled: 09/06/17 12:40 by April Saceaux

7I07045-11 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	240	mg/kg	10	10/17/17 22:03	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:07	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 18:41	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 18:41	
Barium, Total	ND	0.50	mg/kg	1	10/20/17 18:41	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 18:41	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 18:41	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 18:41	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 18:41	
Copper, Total	**5.4**	0.50	mg/kg	1	10/20/17 18:41	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 18:41	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 16:13	
Nickel, Total	**1.0**	1.0	mg/kg	1	10/20/17 18:41	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 18:41	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 18:41	
Strontium, Total	**2.5**	0.50	mg/kg	1	10/20/17 18:41	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 18:41	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 18:41	
Zinc, Total	**11**	5.0	mg/kg	1	10/20/17 18:41	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.43	mg/kg	1	10/13/17 00:15	M-02
Carbazole	ND	0.43	mg/kg	1	10/13/17 00:15	M-02
Phenol	ND	0.43	mg/kg	1	10/13/17 00:15	M-02
Pyridine	ND	0.86	mg/kg	1	10/13/17 00:15	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*19% Conc: 0.822*	*32-103*			*10/13/17 00:15*	*M-02, S-GC*
2-Fluorobiphenyl	*45% Conc: 0.971*	*36-107*			*10/13/17 00:15*	*M-02*
2-Fluorophenol	*37% Conc: 1.59*	*33-119*			*10/13/17 00:15*	*M-02*
Nitrobenzene-d5	*36% Conc: 0.786*	*36-114*			*10/13/17 00:15*	*M-02*
Phenol-d5	*59% Conc: 2.54*	*40-118*			*10/13/17 00:15*	*M-02*
Terphenyl-d14	*1% Conc: 0.0300*	*40-121*			*10/13/17 00:15*	*M-02*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis13-20170906-1240 — Sampled: 09/06/17 12:40 by April Saceaux

7I07045-11 (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:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn
1-Methylnaphthalene	ND	65	ug/kg	1	10/11/17 07:18	M-02
2-Methylnaphthalene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Acenaphthene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Acenaphthylene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Anthracene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Benzo (a) anthracene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Benzo (a) pyrene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Benzo (b) fluoranthene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Benzo (g,h,i) perylene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Benzo (k) fluoranthene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Chrysene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Dibenzo (a,h) anthracene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Fluoranthene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Fluorene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Indeno (1,2,3-cd) pyrene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Naphthalene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Phenanthrene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Pyrene	ND	65	ug/kg	1	10/11/17 07:18	M-02
Surrogate(s)						
2-Fluorobiphenyl	*56%*	*Conc: 1220*	*0.1-109*		*10/11/17 07:18*	*M-02*
Nitrobenzene-d5	*46%*	*Conc: 992*	*0.1-107*		*10/11/17 07:18*	*M-02*
Terphenyl-d14	*33%*	*Conc: 702*	*28-128*		*10/11/17 07:18*	*M-02*

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Pis13-20170906-1240 — Sampled: 09/06/17 12:40 by April Saceaux

7I07045-11RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,2-Dichloroethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 09:03	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 09:03	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 09:03	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05

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Sample Results

(Continued)

Sample: Pis13-20170906-1240
7I07045-11RE1 (Solid)

Sampled: 09/06/17 12:40 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Chloroform	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Naphthalene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 09:03	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*95%*	*Conc: 226*	*78-140*		*10/14/17 09:03*	*M-05*
4-Bromofluorobenzene	*100%*	*Conc: 238*	*85-116*		*10/14/17 09:03*	*M-05*
Dibromofluoromethane	*94%*	*Conc: 223*	*84-120*		*10/14/17 09:03*	*M-05*
Toluene-d8	*98%*	*Conc: 233*	*82-120*		*10/14/17 09:03*	*M-05*

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Sample Results

(Continued)

Sample: Pis12-20170906-1319 — Sampled: 09/06/17 13:19 by April Saceaux

7I07045-12 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0790	**Prepared:** 10/13/17 13:11				**Analyst:** cam
Methanol	ND	210	mg/kg	10	10/17/17 22:38	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:10	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 18:49	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 18:49	
Barium, Total	ND	0.50	mg/kg	1	10/20/17 18:49	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 18:49	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 18:49	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 18:49	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 18:49	
Copper, Total	**6.7**	0.50	mg/kg	1	10/20/17 18:49	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 18:49	
Molybdenum, Total	**0.77**	0.50	mg/kg	1	10/23/17 16:17	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 18:49	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 18:49	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 18:49	
Strontium, Total	**1.5**	0.50	mg/kg	1	10/20/17 18:49	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 18:49	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 18:49	
Zinc, Total	**13**	5.0	mg/kg	1	10/20/17 18:49	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0210	**Prepared:** 10/04/17 13:08				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.46	mg/kg	1	10/13/17 00:45	M-02
Carbazole	ND	0.46	mg/kg	1	10/13/17 00:45	M-02
Phenol	ND	0.46	mg/kg	1	10/13/17 00:45	M-02
Pyridine	ND	0.93	mg/kg	1	10/13/17 00:45	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*14% Conc: 0.660*	*32-103*			*10/13/17 00:45*	*M-02, S-04*
2-Fluorobiphenyl	*37% Conc: 0.866*	*36-107*			*10/13/17 00:45*	*M-02*
2-Fluorophenol	*27% Conc: 1.23*	*33-119*			*10/13/17 00:45*	*M-02, S-04*
Nitrobenzene-d5	*25% Conc: 0.588*	*36-114*			*10/13/17 00:45*	*M-02, S-04*
Phenol-d5	*54% Conc: 2.51*	*40-118*			*10/13/17 00:45*	*M-02*
Terphenyl-d14	*% Conc: 0.00*	*40-121*			*10/13/17 00:45*	*M-02, S-04*
Semivolatile Organics - Low Level by GC/MS SIM Mode						
Method: EPA 8270C SIM	**Batch ID:** W7J0211	**Prepared:** 10/04/17 13:11				**Analyst:** etn

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Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis12-20170906-1319
7I07045-12 (Solid)

Sampled: 09/06/17 13:19 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
1-Methylnaphthalene	ND	69	ug/kg	1	10/11/17 07:54	M-02
2-Methylnaphthalene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Acenaphthene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Acenaphthylene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Anthracene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Benzo (a) anthracene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Benzo (a) pyrene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Benzo (b) fluoranthene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Benzo (g,h,i) perylene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Benzo (k) fluoranthene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Chrysene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Dibenzo (a,h) anthracene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Fluoranthene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Fluorene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Indeno (1,2,3-cd) pyrene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Naphthalene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Phenanthrene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Pyrene	ND	69	ug/kg	1	10/11/17 07:54	M-02
Surrogate(s)						
2-Fluorobiphenyl	*50% Conc: 1170*	*0.1-109*			*10/11/17 07:54*	*M-02*
Nitrobenzene-d5	*36% Conc: 840*	*0.1-107*			*10/11/17 07:54*	*M-02*
Terphenyl-d14	*29% Conc: 678*	*28-128*			*10/11/17 07:54*	*M-02*

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 11/09/2017 13:45

Sample Results

(Continued)

Sample: Pis12-20170906-1319 — Sampled: 09/06/17 13:19 by April Saceaux

7I07045-12RE1 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,2-Dichloroethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 10:17	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 10:17	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 10:17	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05

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Sample Results

(Continued)

Sample: Pis12-20170906-1319
7I07045-12RE1 (Solid)

Sampled: 09/06/17 13:19 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Chloroform	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Naphthalene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 10:17	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*88%*	*Conc: 204*	*78-140*		*10/14/17 10:17*	*M-05*
4-Bromofluorobenzene	*98%*	*Conc: 229*	*85-116*		*10/14/17 10:17*	*M-05*
Dibromofluoromethane	*89%*	*Conc: 207*	*84-120*		*10/14/17 10:17*	*M-05*
Toluene-d8	*96%*	*Conc: 223*	*82-120*		*10/14/17 10:17*	*M-05*

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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: W7J0790 - EPA 8015D										
Blank (W7J0790-BLK1)				**Prepared: 10/13/17**	**Analyzed: 10/17/17**					
Methanol	ND	10	mg/kg							
LCS (W7J0790-BS1)				**Prepared: 10/13/17**	**Analyzed: 10/17/17**					
Methanol	48.5	10	mg/kg	50.0		97	54-139			
Matrix Spike (W7J0790-MS1)	**Source: 7I07045-01**			**Prepared: 10/13/17**	**Analyzed: 10/17/17**					
Methanol	995	200	mg/kg	1020	ND	98	16-166			M-02, M-04
Matrix Spike Dup (W7J0790-MSD1)	**Source: 7I07045-01**			**Prepared: 10/13/17**	**Analyzed: 10/17/17**					
Methanol	913	200	mg/kg	1020	ND	89	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: W7I0573 - EPA 6010B										
Blank (W7I0573-BLK1)				**Prepared: 09/12/17**	**Analyzed: 10/18/17**					
Lithium, Total	ND	5.0	mg/kg							
LCS (W7I0573-BS1)				**Prepared: 09/12/17**	**Analyzed: 10/18/17**					
Lithium, Total	50.0	5.0	mg/kg	50.0		100	80-120			
Matrix Spike (W7I0573-MS1)	**Source: 7I07045-02**			**Prepared: 09/12/17**	**Analyzed: 10/18/17**					
Lithium, Total	56.1	5.0	mg/kg	49.0	ND	115	75-125			
Matrix Spike Dup (W7I0573-MSD1)	**Source: 7I07045-02**			**Prepared: 09/12/17**	**Analyzed: 10/18/17**					
Lithium, Total	57.2	5.0	mg/kg	50.8	ND	113	75-125	2	20	
Batch: W7I0574 - EPA 6020B										
Blank (W7I0574-BLK1)				**Prepared: 09/12/17**	**Analyzed: 10/18/17**					
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: W7I0574 - EPA 6020B (Continued)										
Blank (W7I0574-BLK1)				**Prepared: 09/12/17 Analyzed: 10/18/17**						
Zinc, Total	ND	5.0	mg/kg							
LCS (W7I0574-BS1)				**Prepared: 09/12/17 Analyzed: 10/18/17**						
Antimony, Total	49.5	0.50	mg/kg	50.0		99	80-120			
Arsenic, Total	49.1	0.50	mg/kg	50.0		98	80-120			
Barium, Total	48.4	0.50	mg/kg	50.0		97	80-120			
Beryllium, Total	46.3	0.30	mg/kg	50.0		93	80-120			
Cadmium, Total	47.3	0.20	mg/kg	50.0		95	80-120			
Chromium, Total	49.2	1.0	mg/kg	50.0		98	80-120			
Cobalt, Total	49.7	0.50	mg/kg	50.0		99	80-120			
Copper, Total	50.2	0.50	mg/kg	50.0		100	80-120			
Lead, Total	48.0	0.50	mg/kg	50.0		96	80-120			
Molybdenum, Total	46.9	0.50	mg/kg	50.0		94	80-120			
Nickel, Total	47.7	1.0	mg/kg	50.0		95	80-120			
Selenium, Total	48.6	0.50	mg/kg	50.0		97	80-120			
Silver, Total	48.8	0.50	mg/kg	50.0		98	80-120			
Strontium, Total	95.9	0.50	mg/kg	100		96	80-120			
Thallium, Total	49.5	0.50	mg/kg	50.0		99	80-120			
Vanadium, Total	45.2	1.0	mg/kg	50.0		90	80-120			
Zinc, Total	50.5	5.0	mg/kg	50.0		101	80-120			
Matrix Spike (W7I0574-MS1)	**Source: 7I07045-01**			**Prepared: 09/12/17 Analyzed: 10/18/17**						
Antimony, Total	48.8	0.50	mg/kg	49.8	ND	98	75-125			
Arsenic, Total	48.6	0.50	mg/kg	49.8	ND	98	75-125			
Barium, Total	48.4	0.50	mg/kg	49.8	1.04	95	75-125			
Beryllium, Total	45.6	0.30	mg/kg	49.8	ND	91	75-125			
Cadmium, Total	48.5	0.20	mg/kg	49.8	ND	97	75-125			
Chromium, Total	48.3	1.0	mg/kg	49.8	ND	97	75-125			
Cobalt, Total	49.3	0.50	mg/kg	49.8	ND	99	75-125			
Copper, Total	55.0	0.50	mg/kg	49.8	4.68	101	75-125			
Lead, Total	47.2	0.50	mg/kg	49.8	ND	95	75-125			
Molybdenum, Total	46.5	0.50	mg/kg	49.8	ND	93	75-125			
Nickel, Total	47.3	1.0	mg/kg	49.8	ND	95	75-125			
Selenium, Total	47.4	0.50	mg/kg	49.8	ND	95	75-125			
Silver, Total	48.0	0.50	mg/kg	49.8	ND	96	75-125			
Strontium, Total	96.5	0.50	mg/kg	99.8	3.75	93	75-125			
Thallium, Total	47.4	0.50	mg/kg	49.8	ND	95	75-125			
Vanadium, Total	44.3	1.0	mg/kg	49.8	ND	89	75-125			
Zinc, Total	60.9	5.0	mg/kg	49.8	10.1	102	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: W7I0574 - EPA 6020B (Continued)										
Matrix Spike (W7I0574-MS1)	**Source: 7I07045-01**			**Prepared: 09/12/17**	**Analyzed: 10/18/17**					
Matrix Spike Dup (W7I0574-MSD1)	**Source: 7I07045-01**			**Prepared: 09/12/17**	**Analyzed: 10/18/17**					
Antimony, Total	47.4	0.50	mg/kg	48.3	ND	98	75-125	3	20	
Arsenic, Total	47.5	0.50	mg/kg	48.3	ND	98	75-125	2	20	
Barium, Total	47.3	0.50	mg/kg	48.3	1.04	96	75-125	2	20	
Beryllium, Total	44.6	0.30	mg/kg	48.3	ND	92	75-125	2	20	
Cadmium, Total	46.6	0.20	mg/kg	48.3	ND	97	75-125	4	20	
Chromium, Total	46.9	1.0	mg/kg	48.3	ND	97	75-125	3	20	
Cobalt, Total	47.7	0.50	mg/kg	48.3	ND	99	75-125	3	20	
Copper, Total	53.7	0.50	mg/kg	48.3	4.68	101	75-125	2	20	
Lead, Total	45.7	0.50	mg/kg	48.3	ND	95	75-125	3	20	
Molybdenum, Total	45.3	0.50	mg/kg	48.3	ND	94	75-125	3	20	
Nickel, Total	46.2	1.0	mg/kg	48.3	ND	96	75-125	2	20	
Selenium, Total	46.3	0.50	mg/kg	48.3	ND	96	75-125	3	20	
Silver, Total	46.6	0.50	mg/kg	48.3	ND	96	75-125	3	20	
Strontium, Total	94.0	0.50	mg/kg	96.7	3.75	93	75-125	3	20	
Thallium, Total	46.5	0.50	mg/kg	48.3	ND	96	75-125	2	20	
Vanadium, Total	43.7	1.0	mg/kg	48.3	ND	90	75-125	1	20	
Zinc, Total	59.5	5.0	mg/kg	48.3	10.1	102	75-125	2	20	
Batch: W7I0575 - EPA 6010B										
Blank (W7I0575-BLK1)				**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lithium, Total	ND	5.0	mg/kg							
LCS (W7I0575-BS1)				**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lithium, Total	43.4	5.0	mg/kg	50.0		87	80-120			
Matrix Spike (W7I0575-MS1)	**Source: 7I07045-11**			**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lithium, Total	48.3	5.0	mg/kg	48.7	ND	99	75-125			
Matrix Spike Dup (W7I0575-MSD1)	**Source: 7I07045-11**			**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lithium, Total	49.6	5.0	mg/kg	48.6	ND	102	75-125	2	20	
Batch: W7I0576 - EPA 6020B										
Blank (W7I0576-BLK1)				**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
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							

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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: W7I0576 - EPA 6020B (Continued)										
Blank (W7I0576-BLK1)				**Prepared: 09/12/17 Analyzed: 10/20/17**						
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							
Zinc, Total	ND	5.0	mg/kg							
LCS (W7I0576-BS1)				**Prepared: 09/12/17 Analyzed: 10/20/17**						
Antimony, Total	44.5	0.50	mg/kg	50.0		89	80-120			
Arsenic, Total	45.6	0.50	mg/kg	50.0		91	80-120			
Barium, Total	45.5	0.50	mg/kg	50.0		91	80-120			
Beryllium, Total	45.7	0.30	mg/kg	50.0		91	80-120			
Cadmium, Total	44.7	0.20	mg/kg	50.0		89	80-120			
Chromium, Total	45.6	1.0	mg/kg	50.0		91	80-120			
Cobalt, Total	46.2	0.50	mg/kg	50.0		92	80-120			
Copper, Total	46.3	0.50	mg/kg	50.0		93	80-120			
Lead, Total	44.1	0.50	mg/kg	50.0		88	80-120			
Molybdenum, Total	44.1	0.50	mg/kg	50.0		88	80-120			
Nickel, Total	46.2	1.0	mg/kg	50.0		92	80-120			
Selenium, Total	44.6	0.50	mg/kg	50.0		89	80-120			
Silver, Total	44.0	0.50	mg/kg	50.0		88	80-120			
Strontium, Total	89.1	0.50	mg/kg	100		89	80-120			
Thallium, Total	46.9	0.50	mg/kg	50.0		94	80-120			
Vanadium, Total	44.7	1.0	mg/kg	50.0		89	80-120			
Zinc, Total	46.8	5.0	mg/kg	50.0		94	80-120			
Matrix Spike (W7I0576-MS1)	**Source: 7I07045-12**			**Prepared: 09/12/17 Analyzed: 10/20/17**						
Antimony, Total	47.0	0.50	mg/kg	50.4	ND	93	75-125			
Arsenic, Total	50.8	0.50	mg/kg	50.4	ND	101	75-125			
Barium, Total	49.9	0.50	mg/kg	50.4	0.371	98	75-125			
Beryllium, Total	48.3	0.30	mg/kg	50.4	ND	96	75-125			
Cadmium, Total	50.5	0.20	mg/kg	50.4	ND	100	75-125			
Chromium, Total	49.5	1.0	mg/kg	50.4	ND	98	75-125			
Cobalt, Total	50.3	0.50	mg/kg	50.4	ND	100	75-125			
Copper, Total	58.9	0.50	mg/kg	50.4	6.70	104	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: W7I0576 - EPA 6020B (Continued)										
Matrix Spike (W7I0576-MS1)	**Source: 7I07045-12**			**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lead, Total	48.5	0.50	mg/kg	50.4	ND	96	75-125			
Molybdenum, Total	49.7	0.50	mg/kg	50.4	0.772	97	75-125			
Nickel, Total	51.2	1.0	mg/kg	50.4	0.453	101	75-125			
Selenium, Total	49.6	0.50	mg/kg	50.4	ND	98	75-125			
Silver, Total	49.3	0.50	mg/kg	50.4	ND	98	75-125			
Strontium, Total	98.6	0.50	mg/kg	101	1.45	96	75-125			
Thallium, Total	50.4	0.50	mg/kg	50.4	ND	100	75-125			
Vanadium, Total	49.0	1.0	mg/kg	50.4	ND	97	75-125			
Zinc, Total	64.5	5.0	mg/kg	50.4	13.1	102	75-125			
Matrix Spike Dup (W7I0576-MSD1)	**Source: 7I07045-12**			**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Antimony, Total	45.5	0.50	mg/kg	48.4	ND	94	75-125	3	20	
Arsenic, Total	49.0	0.50	mg/kg	48.4	ND	101	75-125	3	20	
Barium, Total	47.6	0.50	mg/kg	48.4	0.371	98	75-125	5	20	
Beryllium, Total	46.9	0.30	mg/kg	48.4	ND	97	75-125	3	20	
Cadmium, Total	49.8	0.20	mg/kg	48.4	ND	103	75-125	1	20	
Chromium, Total	47.4	1.0	mg/kg	48.4	ND	98	75-125	4	20	
Cobalt, Total	48.5	0.50	mg/kg	48.4	ND	100	75-125	4	20	
Copper, Total	56.1	0.50	mg/kg	48.4	6.70	102	75-125	5	20	
Lead, Total	46.5	0.50	mg/kg	48.4	ND	96	75-125	4	20	
Molybdenum, Total	47.3	0.50	mg/kg	48.4	0.772	96	75-125	5	20	
Nickel, Total	49.1	1.0	mg/kg	48.4	0.453	101	75-125	4	20	
Selenium, Total	47.5	0.50	mg/kg	48.4	ND	98	75-125	4	20	
Silver, Total	45.5	0.50	mg/kg	48.4	ND	94	75-125	8	20	
Strontium, Total	95.0	0.50	mg/kg	96.8	1.45	97	75-125	4	20	
Thallium, Total	48.8	0.50	mg/kg	48.4	ND	101	75-125	3	20	
Vanadium, Total	46.7	1.0	mg/kg	48.4	ND	97	75-125	5	20	
Zinc, Total	62.4	5.0	mg/kg	48.4	13.1	102	75-125	3	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: W7J0210 - EPA 8270C										
Blank (W7J0210-BLK1)				**Prepared: 10/04/17 Analyzed: 10/12/17**						
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	*0.157*		*mg/kg*	*0.500*		*31*	*32-103*			*S-11*
2-Fluorobiphenyl	*0.140*		*mg/kg*	*0.250*		*56*	*36-107*			
2-Fluorophenol	*0.278*		*mg/kg*	*0.500*		*56*	*33-119*			
Nitrobenzene-d5	*0.140*		*mg/kg*	*0.250*		*56*	*36-114*			
Phenol-d5	*0.325*		*mg/kg*	*0.500*		*65*	*40-118*			
Terphenyl-d14	*0.155*		*mg/kg*	*0.250*		*62*	*40-121*			
LCS (W7J0210-BS1)				**Prepared: 10/04/17 Analyzed: 10/12/17**						
1,2,4-Trichlorobenzene	0.688	0.050	mg/kg	1.25		55	32-111			
1,4-Dichlorobenzene	0.683	0.050	mg/kg	1.25		55	30-111			
2,4-Dinitrotoluene	0.831	0.050	mg/kg	1.25		66	49-119			
2-Chlorophenol	0.669	0.050	mg/kg	1.25		53	31-111			
4-Chloro-3-methylphenol	0.695	0.050	mg/kg	1.25		56	27-138			
4-Nitrophenol	0.622	0.050	mg/kg	1.25		50	35-109			
Acenaphthene	0.772	0.050	mg/kg	1.25		62	44-118			
N-Nitrosodi-n-propylamine	0.726	0.050	mg/kg	1.25		58	31-128			
Pentachlorophenol	0.352	0.050	mg/kg	1.25		28	11-114			
Phenol	0.735	0.050	mg/kg	1.25		59	33-106			
Pyrene	0.952	0.050	mg/kg	1.25		76	56-127			
Surrogate(s)										
2,4,6-Tribromophenol	*1.44*		*mg/kg*	*2.50*		*58*	*32-103*			
2-Fluorobiphenyl	*0.666*		*mg/kg*	*1.25*		*53*	*36-107*			
2-Fluorophenol	*1.56*		*mg/kg*	*2.50*		*62*	*33-119*			
Nitrobenzene-d5	*0.739*		*mg/kg*	*1.25*		*59*	*36-114*			
Phenol-d5	*1.67*		*mg/kg*	*2.50*		*67*	*40-118*			
Terphenyl-d14	*0.919*		*mg/kg*	*1.25*		*74*	*40-121*			
Matrix Spike (W7J0210-MS1)	**Source: 7I07045-01**			**Prepared: 10/04/17 Analyzed: 10/12/17**						
1,2,4-Trichlorobenzene	7.28	0.42	mg/kg	10.5	ND	69	29-108			M-02
1,4-Dichlorobenzene	6.48	0.42	mg/kg	10.5	ND	61	37-96			M-02
2,4-Dinitrotoluene	7.75	0.42	mg/kg	10.5	ND	74	45-106			M-02
2-Chlorophenol	6.81	0.42	mg/kg	10.5	ND	65	35-97			M-02
4-Chloro-3-methylphenol	7.99	0.42	mg/kg	10.5	ND	76	38-114			M-02
4-Nitrophenol	7.52	0.42	mg/kg	10.5	ND	71	28-115			M-02
Acenaphthene	8.07	0.42	mg/kg	10.5	ND	77	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: W7J0210 - EPA 8270C (Continued)										
Matrix Spike (W7J0210-MS1)	**Source: 7I07045-01**			**Prepared: 10/04/17**	**Analyzed: 10/12/17**					
N-Nitrosodi-n-propylamine	7.67	0.42	mg/kg	10.5	ND	73	31-120			M-02
Pentachlorophenol	5.89	0.42	mg/kg	10.5	ND	56	23-114			M-02
Phenol	7.43	0.42	mg/kg	10.5	ND	70	31-102			M-02
Pyrene	5.27	0.42	mg/kg	10.5	ND	50	47-122			M-02
Surrogate(s)										
2,4,6-Tribromophenol	*16.9*		*mg/kg*	*21.1*		*80*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.70*		*mg/kg*	*10.5*		*73*	*36-107*			*M-02*
2-Fluorophenol	*16.0*		*mg/kg*	*21.1*		*76*	*33-119*			*M-02*
Nitrobenzene-d5	*7.73*		*mg/kg*	*10.5*		*73*	*36-114*			*M-02*
Phenol-d5	*18.0*		*mg/kg*	*21.1*		*85*	*40-118*			*M-02*
Terphenyl-d14	*7.53*		*mg/kg*	*10.5*		*71*	*40-121*			*M-02*
Matrix Spike Dup (W7J0210-MSD1)	**Source: 7I07045-01**			**Prepared: 10/04/17**	**Analyzed: 10/12/17**					
1,2,4-Trichlorobenzene	6.96	0.42	mg/kg	10.5	ND	67	29-108	4	30	M-02
1,4-Dichlorobenzene	5.97	0.42	mg/kg	10.5	ND	57	37-96	8	30	M-02
2,4-Dinitrotoluene	7.66	0.42	mg/kg	10.5	ND	73	45-106	1	30	M-02
2-Chlorophenol	6.67	0.42	mg/kg	10.5	ND	64	35-97	2	30	M-02
4-Chloro-3-methylphenol	7.87	0.42	mg/kg	10.5	ND	75	38-114	2	30	M-02
4-Nitrophenol	7.73	0.42	mg/kg	10.5	ND	74	28-115	3	30	M-02
Acenaphthene	8.07	0.42	mg/kg	10.5	ND	77	49-103	0.04	30	M-02
N-Nitrosodi-n-propylamine	7.53	0.42	mg/kg	10.5	ND	72	31-120	2	30	M-02
Pentachlorophenol	5.40	0.42	mg/kg	10.5	ND	52	23-114	9	30	M-02
Phenol	7.33	0.42	mg/kg	10.5	ND	70	31-102	1	30	M-02
Pyrene	4.07	0.42	mg/kg	10.5	ND	39	47-122	26	30	MS-05, M-02
Surrogate(s)										
2,4,6-Tribromophenol	*16.4*		*mg/kg*	*20.9*		*78*	*32-103*			*M-02*
2-Fluorobiphenyl	*7.49*		*mg/kg*	*10.5*		*72*	*36-107*			*M-02*
2-Fluorophenol	*15.0*		*mg/kg*	*20.9*		*72*	*33-119*			*M-02*
Nitrobenzene-d5	*7.56*		*mg/kg*	*10.5*		*72*	*36-114*			*M-02*
Phenol-d5	*17.5*		*mg/kg*	*20.9*		*84*	*40-118*			*M-02*
Terphenyl-d14	*5.54*		*mg/kg*	*10.5*		*53*	*40-121*			*M-02*

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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: W7J0211 - EPA 8270C SIM										
Blank (W7J0211-BLK1)				**Prepared: 10/04/17 Analyzed: 10/10/17**						
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	*102*		*ug/kg*	*167*		*61*	*0.1-109*			
Nitrobenzene-d5	*95.6*		*ug/kg*	*167*		*57*	*0.1-107*			
Terphenyl-d14	*132*		*ug/kg*	*167*		*79*	*28-128*			
LCS (W7J0211-BS1)				**Prepared: 10/04/17 Analyzed: 10/10/17**						
Acenaphthene	231	5.0	ug/kg	333		69	27-103			
Acenaphthylene	236	5.0	ug/kg	333		71	29-112			
Anthracene	247	5.0	ug/kg	333		74	31-119			
Benzo (a) anthracene	290	5.0	ug/kg	333		87	26-132			
Benzo (a) pyrene	276	5.0	ug/kg	333		83	19-146			
Benzo (b) fluoranthene	277	5.0	ug/kg	333		83	40-120			
Benzo (g,h,i) perylene	256	5.0	ug/kg	333		77	18-135			
Benzo (k) fluoranthene	263	5.0	ug/kg	333		79	40-120			
Chrysene	260	5.0	ug/kg	333		78	40-120			
Dibenzo (a,h) anthracene	267	5.0	ug/kg	333		80	20-137			
Fluoranthene	280	5.0	ug/kg	333		84	33-123			
Fluorene	238	5.0	ug/kg	333		71	33-106			
Indeno (1,2,3-cd) pyrene	266	5.0	ug/kg	333		80	16-136			
Naphthalene	212	5.0	ug/kg	333		64	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: W7J0211 - EPA 8270C SIM (Continued)										
LCS (W7J0211-BS1)				**Prepared: 10/04/17 Analyzed: 10/10/17**						
Phenanthrene	254	5.0	ug/kg	333		76	32-110			
Pyrene	280	5.0	ug/kg	333		84	34-122			
Surrogate(s)										
2-Fluorobiphenyl		*94.9*	*ug/kg*	*167*		*57*	*0.1-109*			
Nitrobenzene-d5		*89.3*	*ug/kg*	*167*		*54*	*0.1-107*			
Terphenyl-d14		*135*	*ug/kg*	*167*		*81*	*28-128*			
Matrix Spike (W7J0211-MS1)	**Source: 7I07045-01**			**Prepared: 10/04/17 Analyzed: 10/11/17**						
Acenaphthene	3860	73	ug/kg	4880	ND	79	5-115			M-02
Acenaphthylene	3830	73	ug/kg	4880	ND	79	8-111			M-02
Anthracene	3970	73	ug/kg	4880	ND	81	3-132			M-02
Benzo (a) anthracene	3490	73	ug/kg	4880	ND	71	14-125			M-02
Benzo (a) pyrene	2230	73	ug/kg	4880	ND	46	2-138			M-02
Benzo (b) fluoranthene	2660	73	ug/kg	4880	ND	54	20-150			M-02
Benzo (g,h,i) perylene	1590	73	ug/kg	4880	ND	33	9-129			M-02
Benzo (k) fluoranthene	2450	73	ug/kg	4880	ND	50	20-150			M-02
Chrysene	3760	73	ug/kg	4880	ND	77	20-150			M-02
Dibenzo (a,h) anthracene	1750	73	ug/kg	4880	ND	36	10-144			M-02
Fluoranthene	4200	73	ug/kg	4880	ND	86	11-127			M-02
Fluorene	4030	73	ug/kg	4880	ND	83	4-125			M-02
Indeno (1,2,3-cd) pyrene	1940	73	ug/kg	4880	ND	40	3-137			M-02
Naphthalene	3120	73	ug/kg	4880	ND	64	0.1-117			M-02
Phenanthrene	4100	73	ug/kg	4880	ND	84	10-122			M-02
Pyrene	3370	73	ug/kg	4880	ND	69	10-128			M-02
Surrogate(s)										
2-Fluorobiphenyl		*1500*	*ug/kg*	*2440*		*61*	*0.1-109*			*M-02*
Nitrobenzene-d5		*1360*	*ug/kg*	*2440*		*56*	*0.1-107*			*M-02*
Terphenyl-d14		*1990*	*ug/kg*	*2440*		*81*	*28-128*			*M-02*
Matrix Spike Dup (W7J0211-MSD1)	**Source: 7I07045-01**			**Prepared: 10/04/17 Analyzed: 10/11/17**						
Acenaphthene	3700	71	ug/kg	4740	ND	78	5-115	4	30	M-02
Acenaphthylene	3720	71	ug/kg	4740	ND	78	8-111	3	30	M-02
Anthracene	3920	71	ug/kg	4740	ND	83	3-132	1	30	M-02
Benzo (a) anthracene	2580	71	ug/kg	4740	ND	55	14-125	30	30	M-02
Benzo (a) pyrene	1460	71	ug/kg	4740	ND	31	2-138	42	30	M-02
Benzo (b) fluoranthene	1870	71	ug/kg	4740	ND	39	20-150	35	30	M-02
Benzo (g,h,i) perylene	1550	71	ug/kg	4740	ND	33	9-129	3	30	M-02
Benzo (k) fluoranthene	1680	71	ug/kg	4740	ND	35	20-150	37	30	M-02
Chrysene	3650	71	ug/kg	4740	ND	77	20-150	3	30	M-02
Dibenzo (a,h) anthracene	1670	71	ug/kg	4740	ND	35	10-144	5	30	M-02

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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: W7J0211 - EPA 8270C SIM (Continued)										
Matrix Spike Dup (W7J0211-MSD1)	**Source: 7I07045-01**			**Prepared: 10/04/17**	**Analyzed: 10/11/17**					
Fluoranthene	3930	71	ug/kg	4740	ND	83	11-127	7	30	M-02
Fluorene	3910	71	ug/kg	4740	ND	82	4-125	3	30	M-02
Indeno (1,2,3-cd) pyrene	1820	71	ug/kg	4740	ND	38	3-137	6	30	M-02
Naphthalene	2920	71	ug/kg	4740	ND	62	0.1-117	6	30	M-02
Phenanthrene	4020	71	ug/kg	4740	ND	85	10-122	2	30	M-02
Pyrene	3020	71	ug/kg	4740	ND	64	10-128	11	30	M-02
Surrogate(s)										
2-Fluorobiphenyl	*1470*		*ug/kg*	*2370*		*62*	*0.1-109*			*M-02*
Nitrobenzene-d5	*1280*		*ug/kg*	*2370*		*54*	*0.1-107*			*M-02*
Terphenyl-d14	*1850*		*ug/kg*	*2370*		*78*	*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: W7J0181 - EPA 8260B										
Blank (W7J0181-BLK1)				**Prepared: 10/04/17 Analyzed: 10/09/17**						
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: W7J0181 - EPA 8260B (Continued)										
Blank (W7J0181-BLK1)				**Prepared: 10/04/17 Analyzed: 10/09/17**						
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		*49.2*	*ug/kg*	*50.0*		*98*	*78-140*			
4-Bromofluorobenzene		*46.7*	*ug/kg*	*50.0*		*93*	*85-116*			
Dibromofluoromethane		*49.4*	*ug/kg*	*50.0*		*99*	*84-120*			
Toluene-d8		*50.3*	*ug/kg*	*50.0*		*101*	*82-120*			
LCS (W7J0181-BS1)				**Prepared: 10/04/17 Analyzed: 10/09/17**						
1,1,1,2-Tetrachloroethane	41.2	5.0	ug/kg	50.0		82	81-120			

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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: W7J0181 - EPA 8260B (Continued)										
LCS (W7J0181-BS1)				**Prepared: 10/04/17 Analyzed: 10/09/17**						
1,1,1-Trichloroethane	45.5	5.0	ug/kg	50.0		91	78-125			
1,1,2,2-Tetrachloroethane	43.2	5.0	ug/kg	50.0		86	67-115			
1,1,2-Trichloroethane	40.4	5.0	ug/kg	50.0		81	85-121			Q-02
1,1-Dichloroethane	46.8	5.0	ug/kg	50.0		94	84-118			
1,1-Dichloroethene	44.2	5.0	ug/kg	50.0		88	80-123			
1,1-Dichloropropene	46.6	5.0	ug/kg	50.0		93	79-128			
1,2,3-Trichlorobenzene	42.4	5.0	ug/kg	50.0		85	36-201			
1,2,3-Trichloropropane	40.6	5.0	ug/kg	50.0		81	65-115			
1,2,4-Trichlorobenzene	42.7	5.0	ug/kg	50.0		85	69-143			
1,2,4-Trimethylbenzene	45.0	5.0	ug/kg	50.0		90	70-119			
1,2-Dibromo-3-chloropropane	40.7	5.0	ug/kg	50.0		81	62-140			
1,2-Dibromoethane (EDB)	42.6	5.0	ug/kg	50.0		85	86-125			Q-02
1,2-Dichloroethane	48.4	5.0	ug/kg	50.0		97	74-123			
1,2-Dichloropropane	44.4	5.0	ug/kg	50.0		89	83-122			
1,3,5-Trimethylbenzene	45.4	5.0	ug/kg	50.0		91	66-122			
1,3-Dichloropropane	43.9	5.0	ug/kg	50.0		88	85-122			
2,2-Dichloropropane	43.1	5.0	ug/kg	50.0		86	78-124			
2-Butanone	42.8	5.0	ug/kg	50.0		86	65-139			
2-Chloroethyl vinyl ether	52.3	5.0	ug/kg	50.0		105	62-134			
2-Chlorotoluene	45.3	5.0	ug/kg	50.0		91	65-118			
2-Hexanone	45.5	5.0	ug/kg	50.0		91	72-138			
4-Chlorotoluene	45.4	5.0	ug/kg	50.0		91	71-116			
4-Methyl-2-pentanone	44.1	5.0	ug/kg	50.0		88	70-133			
Acetone	44.6	5.0	ug/kg	50.0		89	57-138			
Acrolein	55.4	5.0	ug/kg	50.0		111	57-139			
Acrylonitrile	54.1	5.0	ug/kg	50.0		108	78-124			
Benzene	43.9	5.0	ug/kg	50.0		88	83-121			
Bromobenzene	45.0	5.0	ug/kg	50.0		90	67-115			
Bromochloromethane	45.4	5.0	ug/kg	50.0		91	82-117			
Bromodichloromethane	45.6	5.0	ug/kg	50.0		91	78-122			
Bromoform	42.9	5.0	ug/kg	50.0		86	83-125			
Bromomethane	42.9	5.0	ug/kg	50.0		86	58-133			
Carbon tetrachloride	44.2	5.0	ug/kg	50.0		88	79-126			
Chlorobenzene	47.0	5.0	ug/kg	50.0		94	84-118			
Chloroethane	36.6	5.0	ug/kg	50.0		73	58-135			
Chloroform	46.8	5.0	ug/kg	50.0		94	80-123			
Chloromethane	45.1	5.0	ug/kg	50.0		90	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: W7J0181 - EPA 8260B (Continued)										
LCS (W7J0181-BS1)				**Prepared: 10/04/17 Analyzed: 10/09/17**						
cis-1,2-Dichloroethene	44.0	5.0	ug/kg	50.0		88	83-120			
cis-1,3-Dichloropropene	45.6	5.0	ug/kg	50.0		91	88-123			
Dibromochloromethane	42.9	5.0	ug/kg	50.0		86	83-124			
Dibromomethane	42.5	5.0	ug/kg	50.0		85	84-123			
Dichlorodifluoromethane (Freon 12)	42.7	5.0	ug/kg	50.0		85	67-126			
Ethylbenzene	44.4	5.0	ug/kg	50.0		89	80-120			
Hexachlorobutadiene	43.7	5.0	ug/kg	50.0		87	70-130			
Isopropylbenzene	45.3	5.0	ug/kg	50.0		91	66-122			
m,p-Xylene	46.6	5.0	ug/kg	50.0		93	78-120			
m-Dichlorobenzene	43.0	5.0	ug/kg	50.0		86	75-119			
Methyl tert-butyl ether (MTBE)	44.1	5.0	ug/kg	50.0		88	83-122			
Methylene chloride	48.5	5.0	ug/kg	50.0		97	76-118			
Naphthalene	45.6	5.0	ug/kg	50.0		91	42-190			
n-Butylbenzene	44.7	5.0	ug/kg	50.0		89	68-119			
n-Propylbenzene	45.2	5.0	ug/kg	50.0		90	64-120			
o-Dichlorobenzene	44.4	5.0	ug/kg	50.0		89	77-117			
o-Xylene	45.0	5.0	ug/kg	50.0		90	77-126			
p-Dichlorobenzene	43.3	5.0	ug/kg	50.0		87	76-119			
p-Isopropyltoluene	43.5	5.0	ug/kg	50.0		87	70-123			
sec-Butylbenzene	47.1	5.0	ug/kg	50.0		94	67-120			
Styrene	44.8	5.0	ug/kg	50.0		90	84-125			
tert-Butylbenzene	47.1	5.0	ug/kg	50.0		94	70-119			
Tetrachloroethene	43.4	5.0	ug/kg	50.0		87	80-129			
Toluene	46.3	5.0	ug/kg	50.0		93	81-126			
trans-1,2-Dichloroethene	43.6	5.0	ug/kg	50.0		87	82-123			
trans-1,3-Dichloropropene	45.3	5.0	ug/kg	50.0		91	81-131			
Trichloroethene	44.9	5.0	ug/kg	50.0		90	82-118			
Trichlorofluoromethane	40.6	5.0	ug/kg	50.0		81	72-129			
Vinyl chloride	41.2	5.0	ug/kg	50.0		82	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4	*50.7*		*ug/kg*	*50.0*		*101*	*78-140*			
4-Bromofluorobenzene	*48.5*		*ug/kg*	*50.0*		*97*	*85-116*			
Dibromofluoromethane	*49.9*		*ug/kg*	*50.0*		*100*	*84-120*			
Toluene-d8	*50.1*		*ug/kg*	*50.0*		*100*	*82-120*			
Matrix Spike (W7J0181-MS1)		**Source: 7J02101-01**		**Prepared: 10/04/17 Analyzed: 10/09/17**						
1,1,1,2-Tetrachloroethane	2410	250	ug/kg	2490	ND	97	50-150			
1,1,1-Trichloroethane	2370	250	ug/kg	2490	ND	95	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: W7J0181 - EPA 8260B (Continued)										
Matrix Spike (W7J0181-MS1)	**Source: 7J02101-01**			**Prepared: 10/04/17**	**Analyzed: 10/09/17**					
1,1,2,2-Tetrachloroethane	2750	250	ug/kg	2490	ND	110	50-150			
1,1,2-Trichloroethane	2600	250	ug/kg	2490	ND	104	50-150			
1,1-Dichloroethane	2380	250	ug/kg	2490	ND	95	50-150			
1,1-Dichloroethene	2190	250	ug/kg	2490	ND	88	38-139			
1,1-Dichloropropene	2430	250	ug/kg	2490	ND	97	50-150			
1,2,3-Trichlorobenzene	1920	250	ug/kg	2490	ND	77	50-150			
1,2,3-Trichloropropane	2880	250	ug/kg	2490	ND	115	50-150			
1,2,4-Trichlorobenzene	1860	250	ug/kg	2490	ND	75	50-150			
1,2,4-Trimethylbenzene	2650	250	ug/kg	2490	ND	106	50-150			
1,2-Dibromo-3-chloropropane	2710	250	ug/kg	2490	ND	109	50-150			
1,2-Dibromoethane (EDB)	2620	250	ug/kg	2490	ND	105	50-150			
1,2-Dichloroethane	2370	250	ug/kg	2490	ND	95	50-150			
1,2-Dichloropropane	2470	250	ug/kg	2490	ND	99	50-150			
1,3,5-Trimethylbenzene	2880	250	ug/kg	2490	ND	115	50-150			
1,3-Dichloropropane	2620	250	ug/kg	2490	ND	105	50-150			
2,2-Dichloropropane	2440	250	ug/kg	2490	ND	98	50-150			
2-Butanone	2230	250	ug/kg	2490	ND	89	50-150			
2-Chloroethyl vinyl ether	2380	250	ug/kg	2490	ND	95	50-150			
2-Chlorotoluene	2740	250	ug/kg	2490	ND	110	50-150			
2-Hexanone	2950	250	ug/kg	2490	ND	118	50-150			
4-Chlorotoluene	2630	250	ug/kg	2490	ND	105	50-150			
4-Methyl-2-pentanone	2890	250	ug/kg	2490	ND	116	50-150			
Acetone	2290	250	ug/kg	2490	ND	92	50-150			
Acrolein	2180	250	ug/kg	2490	ND	87	50-150			
Acrylonitrile	2500	250	ug/kg	2490	ND	100	50-150			
Benzene	2460	250	ug/kg	2490	ND	99	30-134			
Bromobenzene	2780	250	ug/kg	2490	ND	111	50-150			
Bromochloromethane	2350	250	ug/kg	2490	ND	94	50-150			
Bromodichloromethane	2280	250	ug/kg	2490	ND	91	50-150			
Bromoform	2300	250	ug/kg	2490	ND	92	50-150			
Bromomethane	2910	250	ug/kg	2490	96.2	113	50-150			
Carbon tetrachloride	2230	250	ug/kg	2490	ND	89	50-150			
Chlorobenzene	2560	250	ug/kg	2490	ND	103	3-135			
Chloroethane	286	250	ug/kg	2490	ND	11	50-150			MS-05
Chloroform	2360	250	ug/kg	2490	ND	95	50-150			
Chloromethane	2970	250	ug/kg	2490	ND	119	50-150			
cis-1,2-Dichloroethene	2280	250	ug/kg	2490	ND	92	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: W7J0181 - EPA 8260B (Continued)										
Matrix Spike (W7J0181-MS1)	**Source: 7J02101-01**			**Prepared: 10/04/17**	**Analyzed: 10/09/17**					
cis-1,3-Dichloropropene	2510	250	ug/kg	2490	ND	101	50-150			
Dibromochloromethane	2600	250	ug/kg	2490	ND	104	50-150			
Dibromomethane	2220	250	ug/kg	2490	ND	89	50-150			
Dichlorodifluoromethane (Freon 12)	2760	250	ug/kg	2490	ND	111	50-150			
Ethylbenzene	2430	250	ug/kg	2490	ND	97	50-150			
Hexachlorobutadiene	2690	250	ug/kg	2490	ND	108	50-150			
Isopropylbenzene	2940	250	ug/kg	2490	ND	118	50-150			
m,p-Xylene	2480	250	ug/kg	2490	ND	99	50-150			
m-Dichlorobenzene	2390	250	ug/kg	2490	ND	96	50-150			
Methyl tert-butyl ether (MTBE)	2340	250	ug/kg	2490	ND	94	50-150			
Methylene chloride	2730	250	ug/kg	2490	ND	110	50-150			
Naphthalene	1860	250	ug/kg	2490	ND	74	50-150			
n-Butylbenzene	2480	250	ug/kg	2490	ND	99	50-150			
n-Propylbenzene	2760	250	ug/kg	2490	ND	111	50-150			
o-Dichlorobenzene	2490	250	ug/kg	2490	ND	100	50-150			
o-Xylene	2500	250	ug/kg	2490	ND	100	50-150			
p-Dichlorobenzene	2440	250	ug/kg	2490	ND	98	50-150			
p-Isopropyltoluene	2780	250	ug/kg	2490	ND	112	50-150			
sec-Butylbenzene	2830	250	ug/kg	2490	ND	113	50-150			
Styrene	2370	250	ug/kg	2490	ND	95	50-150			
tert-Butylbenzene	2950	250	ug/kg	2490	ND	118	50-150			
Tetrachloroethene	2550	250	ug/kg	2490	ND	102	50-150			
Toluene	2800	250	ug/kg	2490	ND	112	11-140			
trans-1,2-Dichloroethene	2120	250	ug/kg	2490	ND	85	50-150			
trans-1,3-Dichloropropene	2630	250	ug/kg	2490	ND	106	50-150			
Trichloroethene	2580	250	ug/kg	2490	139	98	10-144			
Trichlorofluoromethane	1940	250	ug/kg	2490	ND	78	50-150			
Vinyl chloride	2800	250	ug/kg	2490	ND	112	50-150			
Surrogate(s)										
1,2-Dichloroethane-d4	*46.2*		*ug/kg*	*49.9*		*93*	*78-140*			
4-Bromofluorobenzene	*46.0*		*ug/kg*	*49.9*		*92*	*85-116*			
Dibromofluoromethane	*45.9*		*ug/kg*	*49.9*		*92*	*84-120*			
Toluene-d8	*53.1*		*ug/kg*	*49.9*		*106*	*82-120*			
Matrix Spike Dup (W7J0181-MSD1)	**Source: 7J02101-01**			**Prepared: 10/04/17**	**Analyzed: 10/09/17**					
1,1,1,2-Tetrachloroethane	2280	250	ug/kg	2490	ND	91	50-150	6	25	
1,1,1-Trichloroethane	2290	250	ug/kg	2490	ND	92	50-150	3	25	
1,1,2,2-Tetrachloroethane	2510	250	ug/kg	2490	ND	101	50-150	9	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: W7J0181 - EPA 8260B (Continued)										
Matrix Spike Dup (W7J0181-MSD1)	**Source: 7J02101-01**			**Prepared: 10/04/17**	**Analyzed: 10/09/17**					
1,1,2-Trichloroethane	2460	250	ug/kg	2490	ND	99	50-150	6	25	
1,1-Dichloroethane	2310	250	ug/kg	2490	ND	93	50-150	3	25	
1,1-Dichloroethene	2210	250	ug/kg	2490	ND	89	38-139	1	25	
1,1-Dichloropropene	2330	250	ug/kg	2490	ND	93	50-150	4	25	
1,2,3-Trichlorobenzene	2070	250	ug/kg	2490	ND	83	50-150	8	25	
1,2,3-Trichloropropane	2660	250	ug/kg	2490	ND	107	50-150	8	25	
1,2,4-Trichlorobenzene	1990	250	ug/kg	2490	ND	80	50-150	6	25	
1,2,4-Trimethylbenzene	2580	250	ug/kg	2490	ND	103	50-150	3	25	
1,2-Dibromo-3-chloropropane	2600	250	ug/kg	2490	ND	104	50-150	4	25	
1,2-Dibromoethane (EDB)	2490	250	ug/kg	2490	ND	100	50-150	5	25	
1,2-Dichloroethane	2310	250	ug/kg	2490	ND	93	50-150	3	25	
1,2-Dichloropropane	2320	250	ug/kg	2490	ND	93	50-150	6	25	
1,3,5-Trimethylbenzene	2720	250	ug/kg	2490	ND	109	50-150	6	25	
1,3-Dichloropropane	2470	250	ug/kg	2490	ND	99	50-150	6	25	
2,2-Dichloropropane	2300	250	ug/kg	2490	ND	92	50-150	6	25	
2-Butanone	2210	250	ug/kg	2490	ND	89	50-150	0.8	25	
2-Chloroethyl vinyl ether	2430	250	ug/kg	2490	ND	97	50-150	2	25	
2-Chlorotoluene	2610	250	ug/kg	2490	ND	105	50-150	5	25	
2-Hexanone	2710	250	ug/kg	2490	ND	109	50-150	8	25	
4-Chlorotoluene	2550	250	ug/kg	2490	ND	102	50-150	3	25	
4-Methyl-2-pentanone	2710	250	ug/kg	2490	ND	108	50-150	6	25	
Acetone	2240	250	ug/kg	2490	ND	90	50-150	3	25	
Acrolein	2310	250	ug/kg	2490	ND	92	50-150	6	25	
Acrylonitrile	2540	250	ug/kg	2490	ND	102	50-150	2	25	
Benzene	2310	250	ug/kg	2490	ND	93	30-134	6	25	
Bromobenzene	2600	250	ug/kg	2490	ND	104	50-150	7	25	
Bromochloromethane	2300	250	ug/kg	2490	ND	92	50-150	2	25	
Bromodichloromethane	2200	250	ug/kg	2490	ND	88	50-150	3	25	
Bromoform	2150	250	ug/kg	2490	ND	86	50-150	7	25	
Bromomethane	2740	250	ug/kg	2490	96.2	106	50-150	6	25	
Carbon tetrachloride	2130	250	ug/kg	2490	ND	85	50-150	5	25	
Chlorobenzene	2450	250	ug/kg	2490	ND	98	3-135	4	25	
Chloroethane	259	250	ug/kg	2490	ND	10	50-150	10	25	MS-05
Chloroform	2330	250	ug/kg	2490	ND	93	50-150	1	25	
Chloromethane	2760	250	ug/kg	2490	ND	111	50-150	7	25	
cis-1,2-Dichloroethene	2240	250	ug/kg	2490	ND	90	50-150	2	25	
cis-1,3-Dichloropropene	2380	250	ug/kg	2490	ND	96	50-150	5	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: W7J0181 - EPA 8260B (Continued)										
Matrix Spike Dup (W7J0181-MSD1)	**Source: 7J02101-01**			**Prepared: 10/04/17 Analyzed: 10/09/17**						
Dibromochloromethane	2420	250	ug/kg	2490	ND	97	50-150	7	25	
Dibromomethane	2170	250	ug/kg	2490	ND	87	50-150	2	25	
Dichlorodifluoromethane (Freon 12)	2570	250	ug/kg	2490	ND	103	50-150	7	25	
Ethylbenzene	2340	250	ug/kg	2490	ND	94	50-150	4	25	
Hexachlorobutadiene	2560	250	ug/kg	2490	ND	103	50-150	5	25	
Isopropylbenzene	2760	250	ug/kg	2490	ND	111	50-150	6	25	
m,p-Xylene	2420	250	ug/kg	2490	ND	97	50-150	2	25	
m-Dichlorobenzene	2350	250	ug/kg	2490	ND	94	50-150	2	25	
Methyl tert-butyl ether (MTBE)	2250	250	ug/kg	2490	ND	90	50-150	4	25	
Methylene chloride	2500	250	ug/kg	2490	ND	100	50-150	9	25	
Naphthalene	2050	250	ug/kg	2490	ND	82	50-150	10	25	
n-Butylbenzene	2450	250	ug/kg	2490	ND	98	50-150	1	25	
n-Propylbenzene	2640	250	ug/kg	2490	ND	106	50-150	5	25	
o-Dichlorobenzene	2420	250	ug/kg	2490	ND	97	50-150	3	25	
o-Xylene	2400	250	ug/kg	2490	ND	96	50-150	4	25	
p-Dichlorobenzene	2390	250	ug/kg	2490	ND	96	50-150	2	25	
p-Isopropyltoluene	2640	250	ug/kg	2490	ND	106	50-150	5	25	
sec-Butylbenzene	2670	250	ug/kg	2490	ND	107	50-150	6	25	
Styrene	2310	250	ug/kg	2490	ND	93	50-150	3	25	
tert-Butylbenzene	2750	250	ug/kg	2490	ND	110	50-150	7	25	
Tetrachloroethene	2420	250	ug/kg	2490	ND	97	50-150	5	25	
Toluene	2630	250	ug/kg	2490	ND	106	11-140	6	25	
trans-1,2-Dichloroethene	2120	250	ug/kg	2490	ND	85	50-150	0.02	25	
trans-1,3-Dichloropropene	2490	250	ug/kg	2490	ND	100	50-150	6	25	
Trichloroethene	2450	250	ug/kg	2490	139	93	10-144	5	25	
Trichlorofluoromethane	1920	250	ug/kg	2490	ND	77	50-150	0.8	25	
Vinyl chloride	2720	250	ug/kg	2490	ND	109	50-150	3	25	
Surrogate(s)										
1,2-Dichloroethane-d4		*44.9*	*ug/kg*	*49.9*		*90*	*78-140*			
4-Bromofluorobenzene		*46.0*	*ug/kg*	*49.9*		*92*	*85-116*			
Dibromofluoromethane		*46.5*	*ug/kg*	*49.9*		*93*	*84-120*			
Toluene-d8		*52.0*	*ug/kg*	*49.9*		*104*	*82-120*			
Batch: W7J0768 - EPA 8260B										
Blank (W7J0768-BLK1)				**Prepared: 10/13/17 Analyzed: 10/14/17**						
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

(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: W7J0768 - EPA 8260B (Continued)										
Blank (W7J0768-BLK1)				**Prepared: 10/13/17 Analyzed: 10/14/17**						
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: W7J0768 - EPA 8260B (Continued)										
Blank (W7J0768-BLK1)				**Prepared: 10/13/17 Analyzed: 10/14/17**						
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	*47.5*		*ug/kg*	*50.0*		*95*	*78-140*			
4-Bromofluorobenzene	*51.0*		*ug/kg*	*50.0*		*102*	*85-116*			
Dibromofluoromethane	*47.5*		*ug/kg*	*50.0*		*95*	*84-120*			
Toluene-d8	*49.3*		*ug/kg*	*50.0*		*99*	*82-120*			
LCS (W7J0768-BS1)				**Prepared & Analyzed: 10/13/17**						
1,1,1,2-Tetrachloroethane	52.2	5.0	ug/kg	50.0		104	81-120			
1,1,1-Trichloroethane	51.2	5.0	ug/kg	50.0		102	78-125			
1,1,2,2-Tetrachloroethane	48.9	5.0	ug/kg	50.0		98	67-115			
1,1,2-Trichloroethane	49.9	5.0	ug/kg	50.0		100	85-121			

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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: W7J0768 - EPA 8260B (Continued)										
LCS (W7J0768-BS1)				**Prepared & Analyzed: 10/13/17**						
1,1-Dichloroethane	49.2	5.0	ug/kg	50.0		98	84-118			
1,1-Dichloroethene	52.9	5.0	ug/kg	50.0		106	80-123			
1,1-Dichloropropene	52.8	5.0	ug/kg	50.0		106	79-128			
1,2,3-Trichlorobenzene	52.1	5.0	ug/kg	50.0		104	36-201			
1,2,3-Trichloropropane	49.9	5.0	ug/kg	50.0		100	65-115			
1,2,4-Trichlorobenzene	53.5	5.0	ug/kg	50.0		107	69-143			
1,2,4-Trimethylbenzene	55.4	5.0	ug/kg	50.0		111	70-119			
1,2-Dibromo-3-chloropropane	46.8	5.0	ug/kg	50.0		94	62-140			
1,2-Dibromoethane (EDB)	47.9	5.0	ug/kg	50.0		96	86-125			
1,2-Dichloroethane	44.7	5.0	ug/kg	50.0		89	74-123			
1,2-Dichloropropane	50.9	5.0	ug/kg	50.0		102	83-122			
1,3,5-Trimethylbenzene	55.4	5.0	ug/kg	50.0		111	66-122			
1,3-Dichloropropane	48.0	5.0	ug/kg	50.0		96	85-122			
2,2-Dichloropropane	49.8	5.0	ug/kg	50.0		100	78-124			
2-Butanone	42.3	5.0	ug/kg	50.0		85	65-139			
2-Chloroethyl vinyl ether	51.6	5.0	ug/kg	50.0		103	62-134			
2-Chlorotoluene	56.8	5.0	ug/kg	50.0		114	65-118			
2-Hexanone	46.7	5.0	ug/kg	50.0		93	72-138			
4-Chlorotoluene	55.3	5.0	ug/kg	50.0		111	71-116			
4-Methyl-2-pentanone	47.6	5.0	ug/kg	50.0		95	70-133			
Acetone	37.4	5.0	ug/kg	50.0		75	57-138			
Acrolein	46.2	5.0	ug/kg	50.0		92	57-139			
Acrylonitrile	45.9	5.0	ug/kg	50.0		92	78-124			
Benzene	51.0	5.0	ug/kg	50.0		102	83-121			
Bromobenzene	52.0	5.0	ug/kg	50.0		104	67-115			
Bromochloromethane	47.8	5.0	ug/kg	50.0		96	82-117			
Bromodichloromethane	46.0	5.0	ug/kg	50.0		92	78-122			
Bromoform	48.8	5.0	ug/kg	50.0		98	83-125			
Bromomethane	47.9	5.0	ug/kg	50.0		96	58-133			
Carbon tetrachloride	51.0	5.0	ug/kg	50.0		102	79-126			
Chlorobenzene	48.8	5.0	ug/kg	50.0		98	84-118			
Chloroethane	46.6	5.0	ug/kg	50.0		93	58-135			
Chloroform	48.2	5.0	ug/kg	50.0		96	80-123			
Chloromethane	51.8	5.0	ug/kg	50.0		104	58-128			
cis-1,2-Dichloroethene	52.7	5.0	ug/kg	50.0		105	83-120			
cis-1,3-Dichloropropene	50.8	5.0	ug/kg	50.0		102	88-123			
Dibromochloromethane	48.6	5.0	ug/kg	50.0		97	83-124			

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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: W7J0768 - EPA 8260B (Continued)										
LCS (W7J0768-BS1)				**Prepared & Analyzed: 10/13/17**						
Dibromomethane	46.3	5.0	ug/kg	50.0		93	84-123			
Dichlorodifluoromethane (Freon 12)	56.7	5.0	ug/kg	50.0		113	67-126			
Ethylbenzene	54.6	5.0	ug/kg	50.0		109	80-120			
Hexachlorobutadiene	53.0	5.0	ug/kg	50.0		106	70-130			
Isopropylbenzene	56.0	5.0	ug/kg	50.0		112	66-122			
m,p-Xylene	55.4	5.0	ug/kg	50.0		111	78-120			
m-Dichlorobenzene	52.4	5.0	ug/kg	50.0		105	75-119			
Methyl tert-butyl ether (MTBE)	47.7	5.0	ug/kg	50.0		95	83-122			
Methylene chloride	46.0	5.0	ug/kg	50.0		92	76-118			
Naphthalene	47.3	5.0	ug/kg	50.0		95	42-190			
n-Butylbenzene	59.0	5.0	ug/kg	50.0		118	68-119			
n-Propylbenzene	60.2	5.0	ug/kg	50.0		120	64-120			
o-Dichlorobenzene	51.7	5.0	ug/kg	50.0		103	77-117			
o-Xylene	53.2	5.0	ug/kg	50.0		106	77-126			
p-Dichlorobenzene	50.8	5.0	ug/kg	50.0		102	76-119			
p-Isopropyltoluene	58.6	5.0	ug/kg	50.0		117	70-123			
sec-Butylbenzene	53.3	5.0	ug/kg	50.0		107	67-120			
Styrene	51.0	5.0	ug/kg	50.0		102	84-125			
tert-Butylbenzene	51.6	5.0	ug/kg	50.0		103	70-119			
Tetrachloroethene	52.6	5.0	ug/kg	50.0		105	80-129			
Toluene	52.5	5.0	ug/kg	50.0		105	81-126			
trans-1,2-Dichloroethene	51.6	5.0	ug/kg	50.0		103	82-123			
trans-1,3-Dichloropropene	49.3	5.0	ug/kg	50.0		99	81-131			
Trichloroethene	49.6	5.0	ug/kg	50.0		99	82-118			
Trichlorofluoromethane	44.9	5.0	ug/kg	50.0		90	72-129			
Vinyl chloride	52.1	5.0	ug/kg	50.0		104	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4	*47.0*		*ug/kg*	*50.0*		*94*	*78-140*			
4-Bromofluorobenzene	*48.8*		*ug/kg*	*50.0*		*98*	*85-116*			
Dibromofluoromethane	*47.7*		*ug/kg*	*50.0*		*95*	*84-120*			
Toluene-d8	*50.7*		*ug/kg*	*50.0*		*101*	*82-120*			
Matrix Spike (W7J0768-MS1)		**Source: 7I07045-08RE1**		**Prepared: 10/13/17 Analyzed: 10/14/17**						
1,1,1,2-Tetrachloroethane	2470	250	ug/kg	2500	42.0	97	50-150			
1,1,1-Trichloroethane	2440	250	ug/kg	2500	ND	98	50-150			
1,1,2,2-Tetrachloroethane	2310	250	ug/kg	2500	ND	92	50-150			
1,1,2-Trichloroethane	2300	250	ug/kg	2500	ND	92	50-150			
1,1-Dichloroethane	2430	250	ug/kg	2500	ND	97	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: W7J0768 - EPA 8260B (Continued)										
Matrix Spike (W7J0768-MS1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17**	**Analyzed: 10/14/17**					
1,1-Dichloroethene	2580	250	ug/kg	2500	ND	103	38-139			
1,1-Dichloropropene	2580	250	ug/kg	2500	ND	103	50-150			
1,2,3-Trichlorobenzene	2370	250	ug/kg	2500	56.9	92	50-150			
1,2,3-Trichloropropane	2400	250	ug/kg	2500	ND	96	50-150			
1,2,4-Trichlorobenzene	2420	250	ug/kg	2500	49.5	95	50-150			
1,2,4-Trimethylbenzene	2440	250	ug/kg	2500	559	75	50-150			
1,2-Dibromo-3-chloropropane	2300	250	ug/kg	2500	ND	92	50-150			
1,2-Dibromoethane (EDB)	2300	250	ug/kg	2500	ND	92	50-150			
1,2-Dichloroethane	2310	250	ug/kg	2500	ND	92	50-150			
1,2-Dichloropropane	2480	250	ug/kg	2500	ND	99	50-150			
1,3,5-Trimethylbenzene	2460	250	ug/kg	2500	549	76	50-150			
1,3-Dichloropropane	2400	250	ug/kg	2500	ND	96	50-150			
2,2-Dichloropropane	2380	250	ug/kg	2500	ND	95	50-150			
2-Butanone	2460	250	ug/kg	2500	ND	99	50-150			
2-Chloroethyl vinyl ether	3500	250	ug/kg	2500	ND	140	50-150			
2-Chlorotoluene	2550	250	ug/kg	2500	49.5	100	50-150			
2-Hexanone	2480	250	ug/kg	2500	86.5	96	50-150			
4-Chlorotoluene	2560	250	ug/kg	2500	ND	103	50-150			
4-Methyl-2-pentanone	2490	250	ug/kg	2500	ND	99	50-150			
Acetone	2290	250	ug/kg	2500	467	73	50-150			
Acrolein	1170	250	ug/kg	2500	ND	47	50-150			MS-05
Acrylonitrile	3060	250	ug/kg	2500	ND	123	50-150			
Benzene	2490	250	ug/kg	2500	ND	100	30-134			
Bromobenzene	2420	250	ug/kg	2500	ND	97	50-150			
Bromochloromethane	2390	250	ug/kg	2500	ND	96	50-150			
Bromodichloromethane	2310	250	ug/kg	2500	ND	92	50-150			
Bromoform	2330	250	ug/kg	2500	ND	93	50-150			
Bromomethane	1310	250	ug/kg	2500	ND	52	50-150			
Carbon tetrachloride	2400	250	ug/kg	2500	ND	96	50-150			
Chlorobenzene	2450	250	ug/kg	2500	34.6	97	3-135			
Chloroethane	829	250	ug/kg	2500	ND	33	50-150			MS-05
Chloroform	2350	250	ug/kg	2500	49.5	92	50-150			
Chloromethane	2400	250	ug/kg	2500	ND	96	50-150			
cis-1,2-Dichloroethene	2490	250	ug/kg	2500	ND	100	50-150			
cis-1,3-Dichloropropene	2480	250	ug/kg	2500	ND	99	50-150			
Dibromochloromethane	2260	250	ug/kg	2500	ND	90	50-150			
Dibromomethane	2300	250	ug/kg	2500	ND	92	50-150			

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 11/09/2017 13:45

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: W7J0768 - EPA 8260B (Continued)										
Matrix Spike (W7J0768-MS1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17 Analyzed: 10/14/17**						
Dichlorodifluoromethane (Freon 12)	2410	250	ug/kg	2500	ND	96	50-150			
Ethylbenzene	2610	250	ug/kg	2500	44.5	102	50-150			
Hexachlorobutadiene	2180	250	ug/kg	2500	ND	87	50-150			
Isopropylbenzene	2500	250	ug/kg	2500	551	78	50-150			
m,p-Xylene	2660	250	ug/kg	2500	ND	107	50-150			
m-Dichlorobenzene	2350	250	ug/kg	2500	54.4	92	50-150			
Methyl tert-butyl ether (MTBE)	2540	250	ug/kg	2500	ND	102	50-150			
Methylene chloride	2350	250	ug/kg	2500	183	87	50-150			
Naphthalene	2370	250	ug/kg	2500	843	61	50-150			
n-Butylbenzene	2490	250	ug/kg	2500	ND	100	50-150			
n-Propylbenzene	2610	250	ug/kg	2500	ND	104	50-150			
o-Dichlorobenzene	2380	250	ug/kg	2500	44.5	94	50-150			
o-Xylene	2520	250	ug/kg	2500	492	81	50-150			
p-Dichlorobenzene	2310	250	ug/kg	2500	51.9	90	50-150			
p-Isopropyltoluene	2570	250	ug/kg	2500	927	66	50-150			
sec-Butylbenzene	3010	250	ug/kg	2500	ND	120	50-150			
Styrene	2420	250	ug/kg	2500	546	75	50-150			
tert-Butylbenzene	2470	250	ug/kg	2500	663	72	50-150			
Tetrachloroethene	2350	250	ug/kg	2500	ND	94	50-150			
Toluene	2450	250	ug/kg	2500	59.3	96	11-140			
trans-1,2-Dichloroethene	2500	250	ug/kg	2500	ND	100	50-150			
trans-1,3-Dichloropropene	2420	250	ug/kg	2500	ND	97	50-150			
Trichloroethene	2430	250	ug/kg	2500	ND	97	10-144			
Trichlorofluoromethane	1220	250	ug/kg	2500	ND	49	50-150			MS-05
Vinyl chloride	2580	250	ug/kg	2500	ND	103	50-150			
Surrogate(s)										
1,2-Dichloroethane-d4		*50.5*	*ug/kg*	*50.0*		*101*	*78-140*			
4-Bromofluorobenzene		*52.8*	*ug/kg*	*50.0*		*106*	*85-116*			
Dibromofluoromethane		*49.1*	*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8		*49.6*	*ug/kg*	*50.0*		*99*	*82-120*			
Matrix Spike Dup (W7J0768-MSD1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17 Analyzed: 10/14/17**						
1,1,1,2-Tetrachloroethane	2630	250	ug/kg	2500	42.0	104	50-150	7	25	
1,1,1-Trichloroethane	2770	250	ug/kg	2500	ND	111	50-150	13	25	
1,1,2,2-Tetrachloroethane	2570	250	ug/kg	2500	ND	103	50-150	11	25	
1,1,2-Trichloroethane	2530	250	ug/kg	2500	ND	101	50-150	10	25	
1,1-Dichloroethane	2720	250	ug/kg	2500	ND	109	50-150	11	25	
1,1-Dichloroethene	2900	250	ug/kg	2500	ND	116	38-139	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: W7J0768 - EPA 8260B (Continued)										
Matrix Spike Dup (W7J0768-MSD1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17**	**Analyzed: 10/14/17**					
1,1-Dichloropropene	2910	250	ug/kg	2500	ND	116	50-150	12	25	
1,2,3-Trichlorobenzene	2690	250	ug/kg	2500	56.9	105	50-150	13	25	
1,2,3-Trichloropropane	2710	250	ug/kg	2500	ND	108	50-150	12	25	
1,2,4-Trichlorobenzene	2740	250	ug/kg	2500	49.5	108	50-150	12	25	
1,2,4-Trimethylbenzene	2770	250	ug/kg	2500	559	89	50-150	13	25	
1,2-Dibromo-3-chloropropane	2580	250	ug/kg	2500	ND	103	50-150	11	25	
1,2-Dibromoethane (EDB)	2590	250	ug/kg	2500	ND	103	50-150	12	25	
1,2-Dichloroethane	2600	250	ug/kg	2500	ND	104	50-150	12	25	
1,2-Dichloropropane	2740	250	ug/kg	2500	ND	110	50-150	10	25	
1,3,5-Trimethylbenzene	2810	250	ug/kg	2500	549	90	50-150	13	25	
1,3-Dichloropropane	2680	250	ug/kg	2500	ND	107	50-150	11	25	
2,2-Dichloropropane	2720	250	ug/kg	2500	ND	109	50-150	13	25	
2-Butanone	2600	250	ug/kg	2500	ND	104	50-150	5	25	
2-Chloroethyl vinyl ether	3520	250	ug/kg	2500	ND	141	50-150	0.5	25	
2-Chlorotoluene	2930	250	ug/kg	2500	49.5	115	50-150	14	25	
2-Hexanone	2770	250	ug/kg	2500	86.5	107	50-150	11	25	
4-Chlorotoluene	2870	250	ug/kg	2500	ND	115	50-150	11	25	
4-Methyl-2-pentanone	2890	250	ug/kg	2500	ND	116	50-150	15	25	
Acetone	2660	250	ug/kg	2500	467	88	50-150	15	25	
Acrolein	874	250	ug/kg	2500	ND	35	50-150	29	25	MS-05
Acrylonitrile	2780	250	ug/kg	2500	ND	111	50-150	10	25	
Benzene	2800	250	ug/kg	2500	ND	112	30-134	12	25	
Bromobenzene	2720	250	ug/kg	2500	ND	109	50-150	12	25	
Bromochloromethane	2800	250	ug/kg	2500	ND	112	50-150	16	25	
Bromodichloromethane	2560	250	ug/kg	2500	ND	102	50-150	10	25	
Bromoform	2440	250	ug/kg	2500	ND	98	50-150	5	25	
Bromomethane	1520	250	ug/kg	2500	ND	61	50-150	15	25	
Carbon tetrachloride	2730	250	ug/kg	2500	ND	109	50-150	13	25	
Chlorobenzene	2620	250	ug/kg	2500	34.6	103	3-135	7	25	
Chloroethane	1090	250	ug/kg	2500	ND	44	50-150	27	25	MS-05
Chloroform	2640	250	ug/kg	2500	49.5	104	50-150	12	25	
Chloromethane	2700	250	ug/kg	2500	ND	108	50-150	12	25	
cis-1,2-Dichloroethene	2800	250	ug/kg	2500	ND	112	50-150	12	25	
cis-1,3-Dichloropropene	2770	250	ug/kg	2500	ND	111	50-150	11	25	
Dibromochloromethane	2580	250	ug/kg	2500	ND	103	50-150	13	25	
Dibromomethane	2530	250	ug/kg	2500	ND	101	50-150	9	25	
Dichlorodifluoromethane (Freon 12)	2650	250	ug/kg	2500	ND	106	50-150	9	25	

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Project Manager: Robert Hartsock

Reported: 11/09/2017 13:45

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: W7J0768 - EPA 8260B (Continued)										
Matrix Spike Dup (W7J0768-MSD1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17 Analyzed: 10/14/17**						
Ethylbenzene	2810	250	ug/kg	2500	44.5	111	50-150	8	25	
Hexachlorobutadiene	2490	250	ug/kg	2500	ND	100	50-150	14	25	
Isopropylbenzene	2860	250	ug/kg	2500	551	93	50-150	13	25	
m,p-Xylene	2910	250	ug/kg	2500	ND	116	50-150	9	25	
m-Dichlorobenzene	2700	250	ug/kg	2500	54.4	106	50-150	14	25	
Methyl tert-butyl ether (MTBE)	2900	250	ug/kg	2500	ND	116	50-150	13	25	
Methylene chloride	2610	250	ug/kg	2500	183	97	50-150	10	25	
Naphthalene	2650	250	ug/kg	2500	843	72	50-150	11	25	
n-Butylbenzene	2840	250	ug/kg	2500	ND	114	50-150	13	25	
n-Propylbenzene	2970	250	ug/kg	2500	ND	119	50-150	13	25	
o-Dichlorobenzene	2710	250	ug/kg	2500	44.5	107	50-150	13	25	
o-Xylene	2780	250	ug/kg	2500	492	91	50-150	10	25	
p-Dichlorobenzene	2580	250	ug/kg	2500	51.9	101	50-150	11	25	
p-Isopropyltoluene	2930	250	ug/kg	2500	927	80	50-150	13	25	
sec-Butylbenzene	3390	250	ug/kg	2500	ND	136	50-150	12	25	
Styrene	2620	250	ug/kg	2500	546	83	50-150	8	25	
tert-Butylbenzene	2830	250	ug/kg	2500	663	87	50-150	14	25	
Tetrachloroethene	2710	250	ug/kg	2500	ND	108	50-150	14	25	
Toluene	2760	250	ug/kg	2500	59.3	108	11-140	12	25	
trans-1,2-Dichloroethene	2800	250	ug/kg	2500	ND	112	50-150	11	25	
trans-1,3-Dichloropropene	2710	250	ug/kg	2500	ND	109	50-150	11	25	
Trichloroethene	2750	250	ug/kg	2500	ND	110	10-144	12	25	
Trichlorofluoromethane	1400	250	ug/kg	2500	ND	56	50-150	13	25	
Vinyl chloride	2860	250	ug/kg	2500	ND	114	50-150	10	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*50.0*		*ug/kg*	*50.0*		*100*	*78-140*			
4-Bromofluorobenzene	*49.6*		*ug/kg*	*50.0*		*99*	*85-116*			
Dibromofluoromethane	*49.2*		*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8	*50.3*		*ug/kg*	*50.0*		*101*	*82-120*			

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Reported: 11/09/2017 13:45

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.
M-05	Due to the nature of matrix interferences, sample 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-02	Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as Not Detected.
S-04	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
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:	7I08037	**Report Date:**	11/09/2017
		Received Date:	9/8/2017
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

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 9/08/17 with the Chain-of-Custody document. The samples were received in good condition, at 5.7 °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

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported:
11/09/2017 15:38

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Pis04-20170907-0643	April Saceaux	7I08037-01	Solid	09/07/17 06:43	
Pis21-20170907-0652	April Saceaux	7I08037-02	Solid	09/07/17 06:52	
Pis05-20170907-0721	April Saceaux	7I08037-03	Solid	09/07/17 07:21	
Pis08-20170907-0800	April Saceaux	7I08037-04	Solid	09/07/17 08:00	
Pis09-20170907-0832	April Saceaux	7I08037-05	Solid	09/07/17 08:32	
Pis10-20170907-0905	April Saceaux	7I08037-06	Solid	09/07/17 09:05	
Pis15-20170907-1023	April Saceaux	7I08037-07	Solid	09/07/17 10:23	
Pis00-20170907-1032	April Saceaux	7I08037-08	Solid	09/07/17 10:32	
Pis14-20170907-1107	April Saceaux	7I08037-09	Solid	09/07/17 11:07	
Pis16-20170907-1141	April Saceaux	7I08037-10	Solid	09/07/17 11:41	
Pis17-20170907-1223	April Saceaux	7I08037-11	Solid	09/07/17 12:23	
Pis01-20170907-1335	April Saceaux	7I08037-12	Solid	09/07/17 13:35	

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Reported: 11/09/2017 15:38

Sample Results

Sample: Pis04-20170907-0643 — Sampled: 09/07/17 6:43 by April Saceaux

7I08037-01 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	180	mg/kg	10	10/17/17 23:14	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:13	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 18:56	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 18:56	
Barium, Total	**0.62**	0.50	mg/kg	1	10/20/17 18:56	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 18:56	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 18:56	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 18:56	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 18:56	
Copper, Total	**4.1**	0.50	mg/kg	1	10/20/17 18:56	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 18:56	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 16:21	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 18:56	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 18:56	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 18:56	
Strontium, Total	**1.8**	0.50	mg/kg	1	10/20/17 18:56	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 18:56	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 18:56	
Zinc, Total	**9.9**	5.0	mg/kg	1	10/20/17 18:56	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	**0.59**	0.47	mg/kg	1	11/01/17 20:34	B, M-02
Carbazole	ND	0.47	mg/kg	1	11/01/17 20:34	M-02
Phenol	ND	0.47	mg/kg	1	11/01/17 20:34	M-02
Pyridine	ND	0.93	mg/kg	1	11/01/17 20:34	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*60%*	*Conc: 2.78*	*32-103*		*11/01/17 20:34*	*M-02*
2-Fluorobiphenyl	*46%*	*Conc: 1.07*	*36-107*		*11/01/17 20:34*	*M-02*
2-Fluorophenol	*48%*	*Conc: 2.22*	*33-119*		*11/01/17 20:34*	*M-02*
Nitrobenzene-d5	*49%*	*Conc: 1.14*	*36-114*		*11/01/17 20:34*	*M-02*
Phenol-d5	*63%*	*Conc: 2.93*	*40-118*		*11/01/17 20:34*	*M-02*
Terphenyl-d14	*21%*	*Conc: 0.500*	*40-121*		*11/01/17 20:34*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Reported: 11/09/2017 15:38

Sample Results

(Continued)

Sample: Pis04-20170907-0643 — Sampled: 09/07/17 6:43 by April Saceaux

7I08037-01 (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:** W7J0598 — **Prepared:** 10/11/17 08:45 — **Analyst:** etn						
1-Methylnaphthalene	ND	65	ug/kg	1	10/16/17 19:40	M-02
2-Methylnaphthalene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Acenaphthene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Acenaphthylene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Anthracene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Benzo (a) anthracene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Benzo (a) pyrene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Benzo (b) fluoranthene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Benzo (g,h,i) perylene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Benzo (k) fluoranthene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Chrysene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Dibenzo (a,h) anthracene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Fluoranthene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Fluorene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Indeno (1,2,3-cd) pyrene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Naphthalene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Phenanthrene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Pyrene	ND	65	ug/kg	1	10/16/17 19:40	M-02
Surrogate(s)						
2-Fluorobiphenyl	*55%*	*Conc: 1180*	*0.1-109*		*10/16/17 19:40*	*M-02*
Nitrobenzene-d5	*50%*	*Conc: 1090*	*0.1-107*		*10/16/17 19:40*	*M-02*
Terphenyl-d14	*80%*	*Conc: 1730*	*28-128*		*10/16/17 19:40*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B — **Batch ID:** W7J0768 — **Prepared:** 10/13/17 10:00 — **Analyst:** dil						
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 10:43	M-05

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 11/09/2017 15:38

Sample Results

(Continued)

Sample: Pis04-20170907-0643

7I08037-01 (Solid)

Sampled: 09/07/17 6:43 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	10/14/17 10:43	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 10:43	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 10:43	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 10:43	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Chloroform	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 10:43	M-05

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Sample Results

(Continued)

Sample: Pis04-20170907-0643
7I08037-01 (Solid)

Sampled: 09/07/17 6:43 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 10:43	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*99%*	*Conc: 242*	*78-140*		*10/14/17 10:43*	*M-05*
4-Bromofluorobenzene	*100%*	*Conc: 245*	*85-116*		*10/14/17 10:43*	*M-05*
Dibromofluoromethane	*94%*	*Conc: 231*	*84-120*		*10/14/17 10:43*	*M-05*
Toluene-d8	*98%*	*Conc: 241*	*82-120*		*10/14/17 10:43*	*M-05*

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Sample Results

(Continued)

Sample: Pis21-20170907-0652 — Sampled: 09/07/17 6:52 by April Saceaux

7I08037-02 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	190	mg/kg	10	10/17/17 23:49	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:16	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 19:03	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 19:03	
Barium, Total	**0.64**	0.50	mg/kg	1	10/20/17 19:03	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 19:03	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 19:03	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 19:03	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 19:03	
Copper, Total	**3.9**	0.50	mg/kg	1	10/20/17 19:03	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 19:03	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 16:25	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 19:03	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 19:03	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 19:03	
Strontium, Total	**1.9**	0.50	mg/kg	1	10/20/17 19:03	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 19:03	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 19:03	
Zinc, Total	**9.2**	5.0	mg/kg	1	10/20/17 19:03	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.49	mg/kg	1	11/01/17 21:05	M-02
Carbazole	ND	0.49	mg/kg	1	11/01/17 21:05	M-02
Phenol	ND	0.49	mg/kg	1	11/01/17 21:05	M-02
Pyridine	ND	0.98	mg/kg	1	11/01/17 21:05	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*53%*	*Conc: 2.59*	*32-103*		*11/01/17 21:05*	*M-02*
2-Fluorobiphenyl	*45%*	*Conc: 1.09*	*36-107*		*11/01/17 21:05*	*M-02*
2-Fluorophenol	*44%*	*Conc: 2.17*	*33-119*		*11/01/17 21:05*	*M-02*
Nitrobenzene-d5	*52%*	*Conc: 1.28*	*36-114*		*11/01/17 21:05*	*M-02*
Phenol-d5	*60%*	*Conc: 2.95*	*40-118*		*11/01/17 21:05*	*M-02*
Terphenyl-d14	*18%*	*Conc: 0.435*	*40-121*		*11/01/17 21:05*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis21-20170907-0652 — Sampled: 09/07/17 6:52 by April Saceaux

7I08037-02 (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:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	69	ug/kg	1	10/16/17 20:15	M-02
2-Methylnaphthalene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Acenaphthene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Acenaphthylene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Anthracene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Benzo (a) anthracene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Benzo (a) pyrene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Benzo (b) fluoranthene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Benzo (g,h,i) perylene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Benzo (k) fluoranthene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Chrysene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Dibenzo (a,h) anthracene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Fluoranthene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Fluorene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Indeno (1,2,3-cd) pyrene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Naphthalene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Phenanthrene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Pyrene	ND	69	ug/kg	1	10/16/17 20:15	M-02
Surrogate(s)						
2-Fluorobiphenyl	*54%*	*Conc: 1250*	*0.1-109*		*10/16/17 20:15*	*M-02*
Nitrobenzene-d5	*51%*	*Conc: 1190*	*0.1-107*		*10/16/17 20:15*	*M-02*
Terphenyl-d14	*70%*	*Conc: 1610*	*28-128*		*10/16/17 20:15*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,1,1-Trichloroethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,1,2,2-Tetrachloroethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,1,2-Trichloroethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,1-Dichloroethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,1-Dichloroethene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,1-Dichloropropene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,2,3-Trichlorobenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,2,3-Trichloropropane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,2,4-Trichlorobenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,2,4-Trimethylbenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,2-Dibromo-3-chloropropane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,2-Dibromoethane (EDB)	ND	1100	ug/kg	50	10/14/17 11:09	M-05

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Sample Results

(Continued)

Sample: Pis21-20170907-0652
7I08037-02 (Solid)

Sampled: 09/07/17 6:52 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	1100	ug/kg	50	10/14/17 11:09	M-05
1,2-Dichloropropane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,3,5-Trimethylbenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
1,3-Dichloropropane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
2,2-Dichloropropane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
2-Butanone	ND	1100	ug/kg	50	10/14/17 11:09	M-05
2-Chloroethyl vinyl ether	ND	1100	ug/kg	50	10/14/17 11:09	M-05
2-Chlorotoluene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
2-Hexanone	ND	1100	ug/kg	50	10/14/17 11:09	M-05
4-Chlorotoluene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
4-Methyl-2-pentanone	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Acetone	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Acrolein	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Acrylonitrile	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Benzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Bromobenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Bromochloromethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Bromodichloromethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Bromoform	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Bromomethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Carbon tetrachloride	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Chlorobenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Chloroethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Chloroform	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Chloromethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
cis-1,2-Dichloroethene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
cis-1,3-Dichloropropene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Dibromochloromethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Dibromomethane	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Dichlorodifluoromethane (Freon 12)	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Ethylbenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Hexachlorobutadiene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Isopropylbenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
m,p-Xylene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
m-Dichlorobenzene	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Methyl tert-butyl ether (MTBE)	ND	1100	ug/kg	50	10/14/17 11:09	M-05
Methylene chloride	ND	1100	ug/kg	50	10/14/17 11:09	M-05

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Sample Results

(Continued)

Sample: Pis21-20170907-0652
7I08037-02 (Solid)

Sampled: 09/07/17 6:52 by April Saceaux

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
n-Butylbenzene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
n-Propylbenzene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
o-Dichlorobenzene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
o-Xylene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
p-Dichlorobenzene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
p-Isopropyltoluene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
sec-Butylbenzene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
Styrene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
tert-Butylbenzene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
Tetrachloroethene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
Toluene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
trans-1,2-Dichloroethene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
trans-1,3-Dichloropropene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
Trichloroethene	ND		1100	ug/kg	50	10/14/17 11:09	M-05
Trichlorofluoromethane	ND		1100	ug/kg	50	10/14/17 11:09	M-05
Vinyl chloride	ND		1100	ug/kg	50	10/14/17 11:09	M-05
Surrogate(s)							
1,2-Dichloroethane-d4	*94%*	*Conc: 214*	*78-140*			*10/14/17 11:09*	*M-05*
4-Bromofluorobenzene	*100%*	*Conc: 227*	*85-116*			*10/14/17 11:09*	*M-05*
Dibromofluoromethane	*94%*	*Conc: 214*	*84-120*			*10/14/17 11:09*	*M-05*
Toluene-d8	*97%*	*Conc: 220*	*82-120*			*10/14/17 11:09*	*M-05*

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

Reported: 11/09/2017 15:38

Sample Results

(Continued)

Sample: Pis05-20170907-0721 — Sampled: 09/07/17 7:21 by April Saceaux

7I08037-03 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	210	mg/kg	10	10/18/17 00:24	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:19	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 19:10	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 19:10	
Barium, Total	ND	0.50	mg/kg	1	10/20/17 19:10	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 19:10	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 19:10	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 19:10	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 19:10	
Copper, Total	**5.5**	0.50	mg/kg	1	10/20/17 19:10	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 19:10	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 16:29	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 19:10	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 19:10	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 19:10	
Strontium, Total	**1.7**	0.50	mg/kg	1	10/20/17 19:10	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 19:10	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 19:10	
Zinc, Total	**11**	5.0	mg/kg	1	10/20/17 19:10	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.48	mg/kg	1	11/01/17 21:36	M-02
Carbazole	ND	0.48	mg/kg	1	11/01/17 21:36	M-02
Phenol	ND	0.48	mg/kg	1	11/01/17 21:36	M-02
Pyridine	ND	0.95	mg/kg	1	11/01/17 21:36	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*44%*	*Conc: 2.12*	*32-103*		*11/01/17 21:36*	*M-02*
2-Fluorobiphenyl	*45%*	*Conc: 1.08*	*36-107*		*11/01/17 21:36*	*M-02*
2-Fluorophenol	*43%*	*Conc: 2.06*	*33-119*		*11/01/17 21:36*	*M-02*
Nitrobenzene-d5	*49%*	*Conc: 1.16*	*36-114*		*11/01/17 21:36*	*M-02*
Phenol-d5	*60%*	*Conc: 2.87*	*40-118*		*11/01/17 21:36*	*M-02*
Terphenyl-d14	*12%*	*Conc: 0.281*	*40-121*		*11/01/17 21:36*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis05-20170907-0721
7I08037-03 (Solid)

Sampled: 09/07/17 7:21 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	70	ug/kg	1	10/16/17 20:49	M-02
2-Methylnaphthalene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Acenaphthene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Acenaphthylene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Anthracene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Benzo (a) anthracene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Benzo (a) pyrene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Benzo (b) fluoranthene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Benzo (g,h,i) perylene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Benzo (k) fluoranthene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Chrysene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Dibenzo (a,h) anthracene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Fluoranthene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Fluorene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Indeno (1,2,3-cd) pyrene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Naphthalene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Phenanthrene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Pyrene	ND	70	ug/kg	1	10/16/17 20:49	M-02
Surrogate(s)						
2-Fluorobiphenyl	*58%*	*Conc: 1350*	*0.1-109*		*10/16/17 20:49*	*M-02*
Nitrobenzene-d5	*53%*	*Conc: 1230*	*0.1-107*		*10/16/17 20:49*	*M-02*
Terphenyl-d14	*55%*	*Conc: 1270*	*28-128*		*10/16/17 20:49*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 11:36	M-05

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Sample Results

(Continued)

Sample: Pis05-20170907-0721
7I08037-03 (Solid)

Sampled: 09/07/17 7:21 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	10/14/17 11:36	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 11:36	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 11:36	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 11:36	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Chloroform	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 11:36	M-05

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Sample Results

(Continued)

Sample: Pis05-20170907-0721
7I08037-03 (Solid)

Sampled: 09/07/17 7:21 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 11:36	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*91%*	*Conc: 221*	*78-140*		*10/14/17 11:36*	*M-05*
4-Bromofluorobenzene	*98%*	*Conc: 237*	*85-116*		*10/14/17 11:36*	*M-05*
Dibromofluoromethane	*94%*	*Conc: 228*	*84-120*		*10/14/17 11:36*	*M-05*
Toluene-d8	*97%*	*Conc: 235*	*82-120*		*10/14/17 11:36*	*M-05*

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Sample Results

(Continued)

Sample: Pis08-20170907-0800 — Sampled: 09/07/17 8:00 by April Saceaux

7I08037-04 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	180	mg/kg	10	10/18/17 00:59	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:22	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 19:17	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 19:17	
Barium, Total	ND	0.50	mg/kg	1	10/20/17 19:17	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 19:17	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 19:17	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 19:17	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 19:17	
Copper, Total	**4.8**	0.50	mg/kg	1	10/20/17 19:17	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 19:17	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 16:50	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 19:17	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 19:17	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 19:17	
Strontium, Total	**1.6**	0.50	mg/kg	1	10/20/17 19:17	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 19:17	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 19:17	
Zinc, Total	**11**	5.0	mg/kg	1	10/20/17 19:17	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.48	mg/kg	1	11/01/17 22:07	M-02
Carbazole	ND	0.48	mg/kg	1	11/01/17 22:07	M-02
Phenol	ND	0.48	mg/kg	1	11/01/17 22:07	M-02
Pyridine	ND	0.97	mg/kg	1	11/01/17 22:07	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*39%*	*Conc: 1.87*	*32-103*		*11/01/17 22:07*	*M-02*
2-Fluorobiphenyl	*49%*	*Conc: 1.18*	*36-107*		*11/01/17 22:07*	*M-02*
2-Fluorophenol	*42%*	*Conc: 2.04*	*33-119*		*11/01/17 22:07*	*M-02*
Nitrobenzene-d5	*55%*	*Conc: 1.32*	*36-114*		*11/01/17 22:07*	*M-02*
Phenol-d5	*62%*	*Conc: 2.99*	*40-118*		*11/01/17 22:07*	*M-02*
Terphenyl-d14	*7%*	*Conc: 0.177*	*40-121*		*11/01/17 22:07*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis08-20170907-0800 — Sampled: 09/07/17 8:00 by April Saceaux

7I08037-04 (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:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	71	ug/kg	1	10/16/17 21:23	M-02
2-Methylnaphthalene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Acenaphthene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Acenaphthylene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Anthracene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Benzo (a) anthracene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Benzo (a) pyrene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Benzo (b) fluoranthene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Benzo (g,h,i) perylene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Benzo (k) fluoranthene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Chrysene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Dibenzo (a,h) anthracene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Fluoranthene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Fluorene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Indeno (1,2,3-cd) pyrene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Naphthalene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Phenanthrene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Pyrene	ND	71	ug/kg	1	10/16/17 21:23	M-02
Surrogate(s)						
2-Fluorobiphenyl	*58%*	*Conc: 1390*	*0.1-109*		*10/16/17 21:23*	*M-02*
Nitrobenzene-d5	*54%*	*Conc: 1270*	*0.1-107*		*10/16/17 21:23*	*M-02*
Terphenyl-d14	*45%*	*Conc: 1080*	*28-128*		*10/16/17 21:23*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 12:02	M-05

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Sample Results

(Continued)

Sample: Pis08-20170907-0800
7I08037-04 (Solid)

Sampled: 09/07/17 8:00 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	10/14/17 12:02	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 12:02	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 12:02	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 12:02	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Chloroform	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 12:02	M-05

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Sample Results

(Continued)

Sample: Pis08-20170907-0800
7I08037-04 (Solid)

Sampled: 09/07/17 8:00 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 12:02	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*95%*	*Conc: 226*	*78-140*		*10/14/17 12:02*	*M-05*
4-Bromofluorobenzene	*101%*	*Conc: 241*	*85-116*		*10/14/17 12:02*	*M-05*
Dibromofluoromethane	*93%*	*Conc: 222*	*84-120*		*10/14/17 12:02*	*M-05*
Toluene-d8	*98%*	*Conc: 234*	*82-120*		*10/14/17 12:02*	*M-05*

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Sample Results

(Continued)

Sample: Pis09-20170907-0832 — Sampled: 09/07/17 8:32 by April Saceaux

7I08037-05 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	190	mg/kg	10	10/18/17 01:34	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:25	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 19:25	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 19:25	
Barium, Total	ND	0.50	mg/kg	1	10/20/17 19:25	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 19:25	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 19:25	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 19:25	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 19:25	
Copper, Total	**4.6**	0.50	mg/kg	1	10/20/17 19:25	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 19:25	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 16:54	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 19:25	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 19:25	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 19:25	
Strontium, Total	**2.2**	0.50	mg/kg	1	10/20/17 19:25	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 19:25	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 19:25	
Zinc, Total	**8.7**	5.0	mg/kg	1	10/20/17 19:25	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.47	mg/kg	1	11/01/17 22:39	M-02
Carbazole	ND	0.47	mg/kg	1	11/01/17 22:39	M-02
Phenol	ND	0.47	mg/kg	1	11/01/17 22:39	M-02
Pyridine	ND	0.93	mg/kg	1	11/01/17 22:39	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*34%*	*Conc: 1.61*	*32-103*		*11/01/17 22:39*	*M-02*
2-Fluorobiphenyl	*46%*	*Conc: 1.07*	*36-107*		*11/01/17 22:39*	*M-02*
2-Fluorophenol	*46%*	*Conc: 2.16*	*33-119*		*11/01/17 22:39*	*M-02*
Nitrobenzene-d5	*53%*	*Conc: 1.24*	*36-114*		*11/01/17 22:39*	*M-02*
Phenol-d5	*65%*	*Conc: 3.04*	*40-118*		*11/01/17 22:39*	*M-02*
Terphenyl-d14	*7%*	*Conc: 0.155*	*40-121*		*11/01/17 22:39*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis09-20170907-0832 — Sampled: 09/07/17 8:32 by April Saceaux

7I08037-05 (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:** W7J0598 — **Prepared:** 10/11/17 08:45 — **Analyst:** etn						
1-Methylnaphthalene	ND	72	ug/kg	1	10/16/17 21:57	M-02
2-Methylnaphthalene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Acenaphthene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Acenaphthylene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Anthracene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Benzo (a) anthracene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Benzo (a) pyrene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Benzo (b) fluoranthene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Benzo (g,h,i) perylene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Benzo (k) fluoranthene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Chrysene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Dibenzo (a,h) anthracene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Fluoranthene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Fluorene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Indeno (1,2,3-cd) pyrene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Naphthalene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Phenanthrene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Pyrene	ND	72	ug/kg	1	10/16/17 21:57	M-02
Surrogate(s)						
2-Fluorobiphenyl	*62%*	*Conc: 1500*	*0.1-109*		*10/16/17 21:57*	*M-02*
Nitrobenzene-d5	*55%*	*Conc: 1340*	*0.1-107*		*10/16/17 21:57*	*M-02*
Terphenyl-d14	*41%*	*Conc: 998*	*28-128*		*10/16/17 21:57*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B — **Batch ID:** W7J0768 — **Prepared:** 10/13/17 10:00 — **Analyst:** dil						
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 12:34	M-05

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Sample Results

(Continued)

Sample: Pis09-20170907-0832
7I08037-05 (Solid)

Sampled: 09/07/17 8:32 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	10/14/17 12:34	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 12:34	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 12:34	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 12:34	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Chloroform	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 12:34	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 12:34	M-05

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Sample Results

(Continued)

Sample: Pis09-20170907-0832
7I08037-05 (Solid)

Sampled: 09/07/17 8:32 by April Saceaux

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
n-Butylbenzene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
n-Propylbenzene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
o-Dichlorobenzene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
o-Xylene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
p-Dichlorobenzene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
p-Isopropyltoluene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
sec-Butylbenzene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
Styrene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
tert-Butylbenzene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
Tetrachloroethene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
Toluene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
Trichloroethene	ND		1200	ug/kg	50	10/14/17 12:34	M-05
Trichlorofluoromethane	ND		1200	ug/kg	50	10/14/17 12:34	M-05
Vinyl chloride	ND		1200	ug/kg	50	10/14/17 12:34	M-05
Surrogate(s)							
1,2-Dichloroethane-d4	*96%*	*Conc: 238*	*78-140*			*10/14/17 12:34*	*M-05*
4-Bromofluorobenzene	*99%*	*Conc: 246*	*85-116*			*10/14/17 12:34*	*M-05*
Dibromofluoromethane	*95%*	*Conc: 235*	*84-120*			*10/14/17 12:34*	*M-05*
Toluene-d8	*100%*	*Conc: 249*	*82-120*			*10/14/17 12:34*	*M-05*

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Pis10-20170907-0905 — Sampled: 09/07/17 9:05 by April Saceaux

7I08037-06 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	220	mg/kg	10	10/18/17 02:10	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:34	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 19:32	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 19:32	
Barium, Total	**0.52**	0.50	mg/kg	1	10/20/17 19:32	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 19:32	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 19:32	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 19:32	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 19:32	
Copper, Total	**3.9**	0.50	mg/kg	1	10/20/17 19:32	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 19:32	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 16:58	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 19:32	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 19:32	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 19:32	
Strontium, Total	**1.8**	0.50	mg/kg	1	10/20/17 19:32	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 19:32	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 19:32	
Zinc, Total	**9.7**	5.0	mg/kg	1	10/20/17 19:32	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.48	mg/kg	1	11/01/17 23:10	M-02
Carbazole	ND	0.48	mg/kg	1	11/01/17 23:10	M-02
Phenol	ND	0.48	mg/kg	1	11/01/17 23:10	M-02
Pyridine	ND	0.96	mg/kg	1	11/01/17 23:10	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*29% Conc: 1.41*	*32-103*			*11/01/17 23:10*	*M-02, S-11*
2-Fluorobiphenyl	*40% Conc: 0.960*	*36-107*			*11/01/17 23:10*	*M-02*
2-Fluorophenol	*46% Conc: 2.19*	*33-119*			*11/01/17 23:10*	*M-02*
Nitrobenzene-d5	*53% Conc: 1.27*	*36-114*			*11/01/17 23:10*	*M-02*
Phenol-d5	*60% Conc: 2.90*	*40-118*			*11/01/17 23:10*	*M-02*
Terphenyl-d14	*4% Conc: 0.0953*	*40-121*			*11/01/17 23:10*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Project Number: McMurtrey, Hartsock & Worth

Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Pis10-20170907-0905 — Sampled: 09/07/17 9:05 by April Saceaux

7I08037-06 (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:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	70	ug/kg	1	10/16/17 22:31	M-02
2-Methylnaphthalene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Acenaphthene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Acenaphthylene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Anthracene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Benzo (a) anthracene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Benzo (a) pyrene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Benzo (b) fluoranthene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Benzo (g,h,i) perylene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Benzo (k) fluoranthene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Chrysene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Dibenzo (a,h) anthracene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Fluoranthene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Fluorene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Indeno (1,2,3-cd) pyrene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Naphthalene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Phenanthrene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Pyrene	ND	70	ug/kg	1	10/16/17 22:31	M-02
Surrogate(s)						
2-Fluorobiphenyl	*56%*	*Conc: 1310*	*0.1-109*		*10/16/17 22:31*	*M-02*
Nitrobenzene-d5	*56%*	*Conc: 1310*	*0.1-107*		*10/16/17 22:31*	*M-02*
Terphenyl-d14	*36%*	*Conc: 849*	*28-128*		*10/16/17 22:31*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 13:00	M-05

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Sample Results

(Continued)

Sample: Pis10-20170907-0905
7I08037-06 (Solid)

Sampled: 09/07/17 9:05 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	10/14/17 13:00	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 13:00	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 13:00	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 13:00	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Chloroform	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 13:00	M-05

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Sample Results

(Continued)

Sample: Pis10-20170907-0905
7I08037-06 (Solid)

Sampled: 09/07/17 9:05 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 13:00	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*94%*	*Conc: 224*	*78-140*		*10/14/17 13:00*	*M-05*
4-Bromofluorobenzene	*101%*	*Conc: 240*	*85-116*		*10/14/17 13:00*	*M-05*
Dibromofluoromethane	*94%*	*Conc: 223*	*84-120*		*10/14/17 13:00*	*M-05*
Toluene-d8	*97%*	*Conc: 231*	*82-120*		*10/14/17 13:00*	*M-05*

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Sample Results

(Continued)

Sample: Pis15-20170907-1023 — Sampled: 09/07/17 10:23 by April Saceaux

7I08037-07 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	200	mg/kg	10	10/18/17 02:45	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:36	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 19:39	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 19:39	
Barium, Total	ND	0.50	mg/kg	1	10/20/17 19:39	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 19:39	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 19:39	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 19:39	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 19:39	
Copper, Total	**4.6**	0.50	mg/kg	1	10/20/17 19:39	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 19:39	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 17:02	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 19:39	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 19:39	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 19:39	
Strontium, Total	**1.6**	0.50	mg/kg	1	10/20/17 19:39	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 19:39	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 19:39	
Zinc, Total	**10**	5.0	mg/kg	1	10/20/17 19:39	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.47	mg/kg	1	11/01/17 23:41	M-02
Carbazole	ND	0.47	mg/kg	1	11/01/17 23:41	M-02
Phenol	ND	0.47	mg/kg	1	11/01/17 23:41	M-02
Pyridine	ND	0.94	mg/kg	1	11/01/17 23:41	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*30% Conc: 1.41*	*32-103*			*11/01/17 23:41*	*M-02, S-11*
2-Fluorobiphenyl	*35% Conc: 0.828*	*36-107*			*11/01/17 23:41*	*M-02, S-GC*
2-Fluorophenol	*48% Conc: 2.26*	*33-119*			*11/01/17 23:41*	*M-02*
Nitrobenzene-d5	*52% Conc: 1.22*	*36-114*			*11/01/17 23:41*	*M-02*
Phenol-d5	*66% Conc: 3.10*	*40-118*			*11/01/17 23:41*	*M-02*
Terphenyl-d14	*7% Conc: 0.157*	*40-121*			*11/01/17 23:41*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis15-20170907-1023
7I08037-07 (Solid)

Sampled: 09/07/17 10:23 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	72	ug/kg	1	10/16/17 23:05	M-02
2-Methylnaphthalene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Acenaphthene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Acenaphthylene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Anthracene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Benzo (a) anthracene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Benzo (a) pyrene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Benzo (b) fluoranthene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Benzo (g,h,i) perylene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Benzo (k) fluoranthene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Chrysene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Dibenzo (a,h) anthracene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Fluoranthene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Fluorene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Indeno (1,2,3-cd) pyrene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Naphthalene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Phenanthrene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Pyrene	ND	72	ug/kg	1	10/16/17 23:05	M-02
Surrogate(s)						
2-Fluorobiphenyl	*53%*	*Conc: 1260*	*0.1-109*		*10/16/17 23:05*	*M-02*
Nitrobenzene-d5	*56%*	*Conc: 1350*	*0.1-107*		*10/16/17 23:05*	*M-02*
Terphenyl-d14	*37%*	*Conc: 889*	*28-128*		*10/16/17 23:05*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 13:26	M-05

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Sample Results

(Continued)

Sample: Pis15-20170907-1023
7I08037-07 (Solid)

Sampled: 09/07/17 10:23 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	10/14/17 13:26	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 13:26	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 13:26	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 13:26	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Chloroform	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 13:26	M-05

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Sample Results

(Continued)

Sample: Pis15-20170907-1023
7I08037-07 (Solid)

Sampled: 09/07/17 10:23 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 13:26	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*88%*	*Conc: 209*	*78-140*		*10/14/17 13:26*	*M-05*
4-Bromofluorobenzene	*100%*	*Conc: 238*	*85-116*		*10/14/17 13:26*	*M-05*
Dibromofluoromethane	*89%*	*Conc: 211*	*84-120*		*10/14/17 13:26*	*M-05*
Toluene-d8	*100%*	*Conc: 237*	*82-120*		*10/14/17 13:26*	*M-05*

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Sample Results

(Continued)

Sample: Pis00-20170907-1032 — Sampled: 09/07/17 10:32 by April Saceaux

7I08037-08 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	200	mg/kg	10	10/18/17 03:20	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:39	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 19:46	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 19:46	
Barium, Total	ND	0.50	mg/kg	1	10/20/17 19:46	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 19:46	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 19:46	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 19:46	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 19:46	
Copper, Total	**5.0**	0.50	mg/kg	1	10/20/17 19:46	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 19:46	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 17:06	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 19:46	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 19:46	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 19:46	
Strontium, Total	**1.5**	0.50	mg/kg	1	10/20/17 19:46	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 19:46	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 19:46	
Zinc, Total	**11**	5.0	mg/kg	1	10/20/17 19:46	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.43	mg/kg	1	11/02/17 00:13	M-02
Carbazole	ND	0.43	mg/kg	1	11/02/17 00:13	M-02
Phenol	ND	0.43	mg/kg	1	11/02/17 00:13	M-02
Pyridine	ND	0.86	mg/kg	1	11/02/17 00:13	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*26% Conc: 1.13*	*32-103*			*11/02/17 00:13*	*M-02, S-11*
2-Fluorobiphenyl	*30% Conc: 0.656*	*36-107*			*11/02/17 00:13*	*M-02, S-GC*
2-Fluorophenol	*37% Conc: 1.61*	*33-119*			*11/02/17 00:13*	*M-02*
Nitrobenzene-d5	*40% Conc: 0.861*	*36-114*			*11/02/17 00:13*	*M-02*
Phenol-d5	*58% Conc: 2.51*	*40-118*			*11/02/17 00:13*	*M-02*
Terphenyl-d14	*6% Conc: 0.126*	*40-121*			*11/02/17 00:13*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis00-20170907-1032 — Sampled: 09/07/17 10:32 by April Saceaux

7I08037-08 (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:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	72	ug/kg	1	10/16/17 23:39	M-02
2-Methylnaphthalene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Acenaphthene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Acenaphthylene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Anthracene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Benzo (a) anthracene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Benzo (a) pyrene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Benzo (b) fluoranthene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Benzo (g,h,i) perylene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Benzo (k) fluoranthene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Chrysene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Dibenzo (a,h) anthracene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Fluoranthene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Fluorene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Indeno (1,2,3-cd) pyrene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Naphthalene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Phenanthrene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Pyrene	ND	72	ug/kg	1	10/16/17 23:39	M-02
Surrogate(s)						
2-Fluorobiphenyl	*47%*	*Conc: 1130*	*0.1-109*		*10/16/17 23:39*	*M-02*
Nitrobenzene-d5	*45%*	*Conc: 1070*	*0.1-107*		*10/16/17 23:39*	*M-02*
Terphenyl-d14	*33%*	*Conc: 779*	*28-128*		*10/16/17 23:39*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/14/17 23:20	M-05

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Sample Results

(Continued)

Sample: Pis00-20170907-1032
7I08037-08 (Solid)

Sampled: 09/07/17 10:32 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	10/14/17 23:20	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 23:20	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 23:20	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 23:20	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Acetone	**1400**	1200	ug/kg	50	10/14/17 23:20	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Chloroform	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 23:20	M-05

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Sample Results

(Continued)

Sample: Pis00-20170907-1032
7I08037-08 (Solid)

Sampled: 09/07/17 10:32 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
o-Xylene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Styrene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Toluene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Trichloroethene	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/14/17 23:20	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*106%*	*Conc: 257*	*78-140*		*10/14/17 23:20*	*M-05*
4-Bromofluorobenzene	*90%*	*Conc: 218*	*85-116*		*10/14/17 23:20*	*M-05*
Dibromofluoromethane	*107%*	*Conc: 259*	*84-120*		*10/14/17 23:20*	*M-05*
Toluene-d8	*84%*	*Conc: 205*	*82-120*		*10/14/17 23:20*	*M-05*

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Sample Results

(Continued)

Sample: Pis14-20170907-1107 — Sampled: 09/07/17 11:07 by April Saceaux

7I08037-09 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	200	mg/kg	10	10/18/17 03:55	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:42	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 20:30	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 20:30	
Barium, Total	**0.56**	0.50	mg/kg	1	10/20/17 20:30	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 20:30	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 20:30	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 20:30	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 20:30	
Copper, Total	**5.3**	0.50	mg/kg	1	10/20/17 20:30	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 20:30	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 17:10	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 20:30	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 20:30	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 20:30	
Strontium, Total	**2.1**	0.50	mg/kg	1	10/20/17 20:30	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 20:30	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 20:30	
Zinc, Total	**12**	5.0	mg/kg	1	10/20/17 20:30	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.48	mg/kg	1	11/02/17 00:44	M-02
Carbazole	ND	0.48	mg/kg	1	11/02/17 00:44	M-02
Phenol	ND	0.48	mg/kg	1	11/02/17 00:44	M-02
Pyridine	ND	0.96	mg/kg	1	11/02/17 00:44	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*13% Conc: 0.644*	*32-103*			*11/02/17 00:44*	*M-02, S-11*
2-Fluorobiphenyl	*23% Conc: 0.551*	*36-107*			*11/02/17 00:44*	*M-02, S-GC*
2-Fluorophenol	*41% Conc: 1.98*	*33-119*			*11/02/17 00:44*	*M-02*
Nitrobenzene-d5	*43% Conc: 1.04*	*36-114*			*11/02/17 00:44*	*M-02*
Phenol-d5	*55% Conc: 2.61*	*40-118*			*11/02/17 00:44*	*M-02*
Terphenyl-d14	*1% Conc: 0.0269*	*40-121*			*11/02/17 00:44*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis14-20170907-1107 — Sampled: 09/07/17 11:07 by April Saceaux

7I08037-09 (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:** W7J0598		**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND		71	ug/kg	1	10/17/17 00:13	M-02
2-Methylnaphthalene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Acenaphthene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Acenaphthylene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Anthracene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Benzo (a) anthracene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Benzo (a) pyrene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Benzo (b) fluoranthene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Benzo (g,h,i) perylene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Benzo (k) fluoranthene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Chrysene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Dibenzo (a,h) anthracene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Fluoranthene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Fluorene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Indeno (1,2,3-cd) pyrene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Naphthalene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Phenanthrene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Pyrene	ND		71	ug/kg	1	10/17/17 00:13	M-02
Surrogate(s)							
2-Fluorobiphenyl	*39%*	*Conc: 909*	*0.1-109*			*10/17/17 00:13*	*M-02*
Nitrobenzene-d5	*48%*	*Conc: 1130*	*0.1-107*			*10/17/17 00:13*	*M-02*
Terphenyl-d14	*24%*	*Conc: 556*	*28-128*			*10/17/17 00:13*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS							
Method: EPA 8260B	**Batch ID:** W7J0768		**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,1,1-Trichloroethane	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,1,2,2-Tetrachloroethane	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,1,2-Trichloroethane	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,1-Dichloroethane	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,1-Dichloroethene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,1-Dichloropropene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,2,3-Trichlorobenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,2,3-Trichloropropane	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,2,4-Trichlorobenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,2,4-Trimethylbenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,2-Dibromo-3-chloropropane	ND		1200	ug/kg	50	10/14/17 23:46	M-05
1,2-Dibromoethane (EDB)	ND		1200	ug/kg	50	10/14/17 23:46	M-05

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Project Manager: Robert Hartsock

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Sample Results

(Continued)

Sample: Pis14-20170907-1107
7I08037-09 (Solid)

Sampled: 09/07/17 11:07 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	10/14/17 23:46	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
2-Butanone	ND	1200	ug/kg	50	10/14/17 23:46	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/14/17 23:46	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
2-Hexanone	ND	1200	ug/kg	50	10/14/17 23:46	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Acetone	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Acrolein	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Benzene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Bromobenzene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Bromoform	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Bromomethane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Chloroethane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Chloroform	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Chloromethane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Dibromomethane	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/14/17 23:46	M-05
Methylene chloride	ND	1200	ug/kg	50	10/14/17 23:46	M-05

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Sample Results

(Continued)

Sample: Pis14-20170907-1107
7I08037-09 (Solid)

Sampled: 09/07/17 11:07 by April Saceaux

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)							
Naphthalene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
n-Butylbenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
n-Propylbenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
o-Dichlorobenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
o-Xylene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
p-Dichlorobenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
p-Isopropyltoluene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
sec-Butylbenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
Styrene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
tert-Butylbenzene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
Tetrachloroethene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
Toluene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
trans-1,2-Dichloroethene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
trans-1,3-Dichloropropene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
Trichloroethene	ND		1200	ug/kg	50	10/14/17 23:46	M-05
Trichlorofluoromethane	ND		1200	ug/kg	50	10/14/17 23:46	M-05
Vinyl chloride	ND		1200	ug/kg	50	10/14/17 23:46	M-05
Surrogate(s)							
1,2-Dichloroethane-d4	*97%*	*Conc: 234*	*78-140*			*10/14/17 23:46*	*M-05*
4-Bromofluorobenzene	*97%*	*Conc: 232*	*85-116*			*10/14/17 23:46*	*M-05*
Dibromofluoromethane	*95%*	*Conc: 229*	*84-120*			*10/14/17 23:46*	*M-05*
Toluene-d8	*99%*	*Conc: 239*	*82-120*			*10/14/17 23:46*	*M-05*

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Reported: 11/09/2017 15:38

Sample Results

(Continued)

Sample: Pis16-20170907-1141 — Sampled: 09/07/17 11:41 by April Saceaux

7I08037-10 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	200	mg/kg	10	10/18/17 04:30	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:45	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 20:37	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 20:37	
Barium, Total	ND	0.50	mg/kg	1	10/20/17 20:37	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 20:37	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 20:37	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 20:37	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 20:37	
Copper, Total	**4.8**	0.50	mg/kg	1	10/20/17 20:37	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 20:37	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 17:14	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 20:37	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 20:37	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 20:37	
Strontium, Total	**1.9**	0.50	mg/kg	1	10/20/17 20:37	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 20:37	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 20:37	
Zinc, Total	**11**	5.0	mg/kg	1	10/20/17 20:37	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.49	mg/kg	1	11/02/17 01:16	M-02
Carbazole	ND	0.49	mg/kg	1	11/02/17 01:16	M-02
Phenol	ND	0.49	mg/kg	1	11/02/17 01:16	M-02
Pyridine	ND	0.97	mg/kg	1	11/02/17 01:16	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*20% Conc: 0.995*	*32-103*			*11/02/17 01:16*	*M-02, S-11*
2-Fluorobiphenyl	*35% Conc: 0.852*	*36-107*			*11/02/17 01:16*	*S-GC, M-02*
2-Fluorophenol	*44% Conc: 2.12*	*33-119*			*11/02/17 01:16*	*M-02*
Nitrobenzene-d5	*47% Conc: 1.14*	*36-114*			*11/02/17 01:16*	*M-02*
Phenol-d5	*61% Conc: 2.95*	*40-118*			*11/02/17 01:16*	*M-02*
Terphenyl-d14	*4% Conc: 0.0925*	*40-121*			*11/02/17 01:16*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis16-20170907-1141
7I08037-10 (Solid)

Sampled: 09/07/17 11:41 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	73	ug/kg	1	10/17/17 00:46	M-02
2-Methylnaphthalene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Acenaphthene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Acenaphthylene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Anthracene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Benzo (a) anthracene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Benzo (a) pyrene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Benzo (b) fluoranthene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Benzo (g,h,i) perylene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Benzo (k) fluoranthene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Chrysene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Dibenzo (a,h) anthracene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Fluoranthene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Fluorene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Indeno (1,2,3-cd) pyrene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Naphthalene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Phenanthrene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Pyrene	ND	73	ug/kg	1	10/17/17 00:46	M-02
Surrogate(s)						
2-Fluorobiphenyl	*54%*	*Conc: 1300*	*0.1-109*		*10/17/17 00:46*	*M-02*
Nitrobenzene-d5	*52%*	*Conc: 1270*	*0.1-107*		*10/17/17 00:46*	*M-02*
Terphenyl-d14	*29%*	*Conc: 711*	*28-128*		*10/17/17 00:46*	*M-02*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/15/17 00:14	M-05

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Sample Results

(Continued)

Sample: Pis16-20170907-1141
7I08037-10 (Solid)

Sampled: 09/07/17 11:41 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	10/15/17 00:14	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
2-Butanone	ND	1200	ug/kg	50	10/15/17 00:14	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/15/17 00:14	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
2-Hexanone	ND	1200	ug/kg	50	10/15/17 00:14	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Acetone	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Acrolein	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Benzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Bromobenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Bromoform	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Bromomethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Chloroethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Chloroform	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Chloromethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Dibromomethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Methylene chloride	ND	1200	ug/kg	50	10/15/17 00:14	M-05

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Sample Results

(Continued)

Sample: Pis16-20170907-1141
7I08037-10 (Solid)

Sampled: 09/07/17 11:41 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
o-Xylene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Styrene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Toluene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Trichloroethene	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/15/17 00:14	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*96%*	*Conc: 238*	*78-140*		*10/15/17 00:14*	*M-05*
4-Bromofluorobenzene	*101%*	*Conc: 249*	*85-116*		*10/15/17 00:14*	*M-05*
Dibromofluoromethane	*95%*	*Conc: 234*	*84-120*		*10/15/17 00:14*	*M-05*
Toluene-d8	*98%*	*Conc: 243*	*82-120*		*10/15/17 00:14*	*M-05*

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Project Manager: Robert Hartsock

Reported: 11/09/2017 15:38

Sample Results

(Continued)

Sample: Pis17-20170907-1223 — Sampled: 09/07/17 12:23 by April Saceaux

7I08037-11 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	210	mg/kg	10	10/18/17 09:12	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:48	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 20:45	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 20:45	
Barium, Total	**0.87**	0.50	mg/kg	1	10/20/17 20:45	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 20:45	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 20:45	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 20:45	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 20:45	
Copper, Total	**6.1**	0.50	mg/kg	1	10/20/17 20:45	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 20:45	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 17:18	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 20:45	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 20:45	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 20:45	
Strontium, Total	**2.9**	0.50	mg/kg	1	10/20/17 20:45	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 20:45	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 20:45	
Zinc, Total	**15**	5.0	mg/kg	1	10/20/17 20:45	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.47	mg/kg	1	11/02/17 01:47	M-02
Carbazole	ND	0.47	mg/kg	1	11/02/17 01:47	M-02
Phenol	ND	0.47	mg/kg	1	11/02/17 01:47	M-02
Pyridine	ND	0.95	mg/kg	1	11/02/17 01:47	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*19% Conc: 0.907*	*32-103*			*11/02/17 01:47*	*M-02, S-11*
2-Fluorobiphenyl	*30% Conc: 0.719*	*36-107*			*11/02/17 01:47*	*M-02, S-GC*
2-Fluorophenol	*41% Conc: 1.96*	*33-119*			*11/02/17 01:47*	*M-02*
Nitrobenzene-d5	*43% Conc: 1.02*	*36-114*			*11/02/17 01:47*	*M-02*
Phenol-d5	*57% Conc: 2.69*	*40-118*			*11/02/17 01:47*	*M-02*
Terphenyl-d14	*4% Conc: 0.0993*	*40-121*			*11/02/17 01:47*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis17-20170907-1223
7I08037-11 (Solid)

Sampled: 09/07/17 12:23 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	71	ug/kg	1	10/17/17 01:20	M-02
2-Methylnaphthalene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Acenaphthene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Acenaphthylene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Anthracene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Benzo (a) anthracene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Benzo (a) pyrene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Benzo (b) fluoranthene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Benzo (g,h,i) perylene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Benzo (k) fluoranthene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Chrysene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Dibenzo (a,h) anthracene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Fluoranthene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Fluorene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Indeno (1,2,3-cd) pyrene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Naphthalene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Phenanthrene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Pyrene	ND	71	ug/kg	1	10/17/17 01:20	M-02
Surrogate(s)						
2-Fluorobiphenyl	*49%*	*Conc: 1170*	*0.1-109*		*10/17/17 01:20*	*M-02*
Nitrobenzene-d5	*49%*	*Conc: 1170*	*0.1-107*		*10/17/17 01:20*	*M-02*
Terphenyl-d14	*26%*	*Conc: 617*	*28-128*		*10/17/17 01:20*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/15/17 02:05	M-05

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Sample Results

(Continued)

Sample: Pis17-20170907-1223
7I08037-11 (Solid)

Sampled: 09/07/17 12:23 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	10/15/17 02:05	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
2-Butanone	ND	1200	ug/kg	50	10/15/17 02:05	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/15/17 02:05	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
2-Hexanone	ND	1200	ug/kg	50	10/15/17 02:05	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Acetone	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Acrolein	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Benzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Bromobenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Bromoform	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Bromomethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Chloroethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Chloroform	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Chloromethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Dibromomethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Methylene chloride	ND	1200	ug/kg	50	10/15/17 02:05	M-05

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Sample Results

(Continued)

Sample: Pis17-20170907-1223
7I08037-11 (Solid)

Sampled: 09/07/17 12:23 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
o-Xylene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Styrene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Toluene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Trichloroethene	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/15/17 02:05	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*85%*	*Conc: 201*	*78-140*		*10/15/17 02:05*	*M-05*
4-Bromofluorobenzene	*98%*	*Conc: 232*	*85-116*		*10/15/17 02:05*	*M-05*
Dibromofluoromethane	*88%*	*Conc: 208*	*84-120*		*10/15/17 02:05*	*M-05*
Toluene-d8	*100%*	*Conc: 236*	*82-120*		*10/15/17 02:05*	*M-05*

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Sample Results

(Continued)

Sample: Pis01-20170907-1335 — Sampled: 09/07/17 13:35 by April Saceaux

7I08037-12 (Solid)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alcohols by GC/FID						
Method: EPA 8015D	**Batch ID:** W7J0791	**Prepared:** 10/13/17 13:13				**Analyst:** cam
Methanol	ND	220	mg/kg	10	10/18/17 09:31	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods						
Method: EPA 6010B	**Batch ID:** W7I0575	**Prepared:** 09/12/17 11:24				**Analyst:** JCK
Lithium, Total	ND	5.0	mg/kg	1	10/20/17 15:51	
Method: EPA 6020B	**Batch ID:** W7I0576	**Prepared:** 09/12/17 11:26				**Analyst:** MTT
Antimony, Total	ND	0.50	mg/kg	1	10/20/17 20:52	
Arsenic, Total	ND	0.50	mg/kg	1	10/20/17 20:52	
Barium, Total	**0.60**	0.50	mg/kg	1	10/20/17 20:52	
Beryllium, Total	ND	0.30	mg/kg	1	10/20/17 20:52	
Cadmium, Total	ND	0.20	mg/kg	1	10/20/17 20:52	
Chromium, Total	ND	1.0	mg/kg	1	10/20/17 20:52	
Cobalt, Total	ND	0.50	mg/kg	1	10/20/17 20:52	
Copper, Total	**5.2**	0.50	mg/kg	1	10/20/17 20:52	
Lead, Total	ND	0.50	mg/kg	1	10/20/17 20:52	
Molybdenum, Total	ND	0.50	mg/kg	1	10/23/17 17:22	
Nickel, Total	ND	1.0	mg/kg	1	10/20/17 20:52	
Selenium, Total	ND	0.50	mg/kg	1	10/20/17 20:52	
Silver, Total	ND	0.50	mg/kg	1	10/20/17 20:52	
Strontium, Total	**2.3**	0.50	mg/kg	1	10/20/17 20:52	
Thallium, Total	ND	0.50	mg/kg	1	10/20/17 20:52	
Vanadium, Total	ND	1.0	mg/kg	1	10/20/17 20:52	
Zinc, Total	**12**	5.0	mg/kg	1	10/20/17 20:52	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 8270C	**Batch ID:** W7J0596	**Prepared:** 10/11/17 08:42				**Analyst:** etn
Bis(2-ethylhexyl)phthalate	ND	0.46	mg/kg	1	11/02/17 02:19	M-02
Carbazole	ND	0.46	mg/kg	1	11/02/17 02:19	M-02
Phenol	ND	0.46	mg/kg	1	11/02/17 02:19	M-02
Pyridine	ND	0.92	mg/kg	1	11/02/17 02:19	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*19% Conc: 0.875*	*32-103*			*11/02/17 02:19*	*M-02, S-11*
2-Fluorobiphenyl	*34% Conc: 0.777*	*36-107*			*11/02/17 02:19*	*M-02, S-GC*
2-Fluorophenol	*42% Conc: 1.91*	*33-119*			*11/02/17 02:19*	*M-02*
Nitrobenzene-d5	*49% Conc: 1.12*	*36-114*			*11/02/17 02:19*	*M-02*
Phenol-d5	*60% Conc: 2.77*	*40-118*			*11/02/17 02:19*	*M-02*
Terphenyl-d14	*2% Conc: 0.0570*	*40-121*			*11/02/17 02:19*	*M-02, S-GC*
Semivolatile Organics - Low Level by GC/MS SIM Mode						

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Sample Results

(Continued)

Sample: Pis01-20170907-1335
7I08037-12 (Solid)

Sampled: 09/07/17 13:35 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)						
Method: EPA 8270C SIM	**Batch ID:** W7J0598	**Prepared:** 10/11/17 08:45				**Analyst:** etn
1-Methylnaphthalene	ND	74	ug/kg	1	10/17/17 01:54	M-02
2-Methylnaphthalene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Acenaphthene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Acenaphthylene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Anthracene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Benzo (a) anthracene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Benzo (a) pyrene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Benzo (b) fluoranthene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Benzo (g,h,i) perylene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Benzo (k) fluoranthene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Chrysene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Dibenzo (a,h) anthracene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Fluoranthene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Fluorene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Indeno (1,2,3-cd) pyrene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Naphthalene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Phenanthrene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Pyrene	ND	74	ug/kg	1	10/17/17 01:54	M-02
Surrogate(s)						
2-Fluorobiphenyl	*52%*	*Conc: 1270*	*0.1-109*		*10/17/17 01:54*	*M-02*
Nitrobenzene-d5	*54%*	*Conc: 1320*	*0.1-107*		*10/17/17 01:54*	*M-02*
Terphenyl-d14	*25%*	*Conc: 608*	*28-128*		*10/17/17 01:54*	*M-02, S-GC*
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 8260B	**Batch ID:** W7J0768	**Prepared:** 10/13/17 10:00				**Analyst:** dil
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,1,1-Trichloroethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,1,2-Trichloroethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,1-Dichloroethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,1-Dichloroethene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,1-Dichloropropene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,2,3-Trichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,2,3-Trichloropropane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,2,4-Trichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,2,4-Trimethylbenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,2-Dibromo-3-chloropropane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,2-Dibromoethane (EDB)	ND	1200	ug/kg	50	10/15/17 02:34	M-05

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Sample Results

(Continued)

Sample: Pis01-20170907-1335
7I08037-12 (Solid)

Sampled: 09/07/17 13:35 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	10/15/17 02:34	M-05
1,2-Dichloropropane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,3,5-Trimethylbenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
1,3-Dichloropropane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
2,2-Dichloropropane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
2-Butanone	ND	1200	ug/kg	50	10/15/17 02:34	M-05
2-Chloroethyl vinyl ether	ND	1200	ug/kg	50	10/15/17 02:34	M-05
2-Chlorotoluene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
2-Hexanone	ND	1200	ug/kg	50	10/15/17 02:34	M-05
4-Chlorotoluene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
4-Methyl-2-pentanone	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Acetone	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Acrolein	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Acrylonitrile	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Benzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Bromobenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Bromochloromethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Bromodichloromethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Bromoform	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Bromomethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Carbon tetrachloride	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Chlorobenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Chloroethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Chloroform	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Chloromethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
cis-1,2-Dichloroethene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
cis-1,3-Dichloropropene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Dibromochloromethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Dibromomethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Dichlorodifluoromethane (Freon 12)	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Ethylbenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Hexachlorobutadiene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Isopropylbenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
m,p-Xylene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
m-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Methyl tert-butyl ether (MTBE)	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Methylene chloride	ND	1200	ug/kg	50	10/15/17 02:34	M-05

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Sample Results

(Continued)

Sample: Pis01-20170907-1335
7I08037-12 (Solid)

Sampled: 09/07/17 13:35 by April Saceaux

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Naphthalene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
n-Butylbenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
n-Propylbenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
o-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
o-Xylene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
p-Dichlorobenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
p-Isopropyltoluene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
sec-Butylbenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Styrene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
tert-Butylbenzene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Tetrachloroethene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Toluene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
trans-1,2-Dichloroethene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
trans-1,3-Dichloropropene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Trichloroethene	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Trichlorofluoromethane	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Vinyl chloride	ND	1200	ug/kg	50	10/15/17 02:34	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*85%*	*Conc: 211*	*78-140*		*10/15/17 02:34*	*M-05*
4-Bromofluorobenzene	*100%*	*Conc: 249*	*85-116*		*10/15/17 02:34*	*M-05*
Dibromofluoromethane	*89%*	*Conc: 221*	*84-120*		*10/15/17 02:34*	*M-05*
Toluene-d8	*100%*	*Conc: 249*	*82-120*		*10/15/17 02:34*	*M-05*

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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: W7J0791 - EPA 8015D										
Blank (W7J0791-BLK1)				**Prepared: 10/13/17**	**Analyzed: 10/18/17**					
Methanol	ND	10	mg/kg							
LCS (W7J0791-BS1)				**Prepared: 10/13/17**	**Analyzed: 10/18/17**					
Methanol	46.3	10	mg/kg	50.0		93	54-139			
Matrix Spike (W7J0791-MS1)	**Source: 7I08037-01**			**Prepared: 10/13/17**	**Analyzed: 10/18/17**					
Methanol	1250	220	mg/kg	1120	100	103	16-166			M-02, M-04
Matrix Spike Dup (W7J0791-MSD1)	**Source: 7I08037-01**			**Prepared: 10/13/17**	**Analyzed: 10/18/17**					
Methanol	1050	220	mg/kg	1110	100	86	16-166	18	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: W7I0575 - EPA 6010B										
Blank (W7I0575-BLK1)				**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lithium, Total	ND	5.0	mg/kg							
LCS (W7I0575-BS1)				**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lithium, Total	43.4	5.0	mg/kg	50.0		87	80-120			
Matrix Spike (W7I0575-MS1)	**Source: 7I07045-11**			**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lithium, Total	48.3	5.0	mg/kg	48.7	ND	99	75-125			
Matrix Spike Dup (W7I0575-MSD1)	**Source: 7I07045-11**			**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Lithium, Total	49.6	5.0	mg/kg	48.6	ND	102	75-125	2	20	
Batch: W7I0576 - EPA 6020B										
Blank (W7I0576-BLK1)				**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
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: W7I0576 - EPA 6020B (Continued)										
Blank (W7I0576-BLK1)				**Prepared: 09/12/17 Analyzed: 10/20/17**						
Zinc, Total	ND	5.0	mg/kg							
LCS (W7I0576-BS1)				**Prepared: 09/12/17 Analyzed: 10/20/17**						
Antimony, Total	44.5	0.50	mg/kg	50.0		89	80-120			
Arsenic, Total	45.6	0.50	mg/kg	50.0		91	80-120			
Barium, Total	45.5	0.50	mg/kg	50.0		91	80-120			
Beryllium, Total	45.7	0.30	mg/kg	50.0		91	80-120			
Cadmium, Total	44.7	0.20	mg/kg	50.0		89	80-120			
Chromium, Total	45.6	1.0	mg/kg	50.0		91	80-120			
Cobalt, Total	46.2	0.50	mg/kg	50.0		92	80-120			
Copper, Total	46.3	0.50	mg/kg	50.0		93	80-120			
Lead, Total	44.1	0.50	mg/kg	50.0		88	80-120			
Molybdenum, Total	44.1	0.50	mg/kg	50.0		88	80-120			
Nickel, Total	46.2	1.0	mg/kg	50.0		92	80-120			
Selenium, Total	44.6	0.50	mg/kg	50.0		89	80-120			
Silver, Total	44.0	0.50	mg/kg	50.0		88	80-120			
Strontium, Total	89.1	0.50	mg/kg	100		89	80-120			
Thallium, Total	46.9	0.50	mg/kg	50.0		94	80-120			
Vanadium, Total	44.7	1.0	mg/kg	50.0		89	80-120			
Zinc, Total	46.8	5.0	mg/kg	50.0		94	80-120			
Matrix Spike (W7I0576-MS1)	**Source: 7I07045-12**			**Prepared: 09/12/17 Analyzed: 10/20/17**						
Antimony, Total	47.0	0.50	mg/kg	50.4	ND	93	75-125			
Arsenic, Total	50.8	0.50	mg/kg	50.4	ND	101	75-125			
Barium, Total	49.9	0.50	mg/kg	50.4	0.371	98	75-125			
Beryllium, Total	48.3	0.30	mg/kg	50.4	ND	96	75-125			
Cadmium, Total	50.5	0.20	mg/kg	50.4	ND	100	75-125			
Chromium, Total	49.5	1.0	mg/kg	50.4	ND	98	75-125			
Cobalt, Total	50.3	0.50	mg/kg	50.4	ND	100	75-125			
Copper, Total	58.9	0.50	mg/kg	50.4	6.70	104	75-125			
Lead, Total	48.5	0.50	mg/kg	50.4	ND	96	75-125			
Molybdenum, Total	49.7	0.50	mg/kg	50.4	0.772	97	75-125			
Nickel, Total	51.2	1.0	mg/kg	50.4	0.453	101	75-125			
Selenium, Total	49.6	0.50	mg/kg	50.4	ND	98	75-125			
Silver, Total	49.3	0.50	mg/kg	50.4	ND	98	75-125			
Strontium, Total	98.6	0.50	mg/kg	101	1.45	96	75-125			
Thallium, Total	50.4	0.50	mg/kg	50.4	ND	100	75-125			
Vanadium, Total	49.0	1.0	mg/kg	50.4	ND	97	75-125			
Zinc, Total	64.5	5.0	mg/kg	50.4	13.1	102	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: W7I0576 - EPA 6020B (Continued)										
Matrix Spike (W7I0576-MS1)	**Source: 7I07045-12**			**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Matrix Spike Dup (W7I0576-MSD1)	**Source: 7I07045-12**			**Prepared: 09/12/17**	**Analyzed: 10/20/17**					
Antimony, Total	45.5	0.50	mg/kg	48.4	ND	94	75-125	3	20	
Arsenic, Total	49.0	0.50	mg/kg	48.4	ND	101	75-125	3	20	
Barium, Total	47.6	0.50	mg/kg	48.4	0.371	98	75-125	5	20	
Beryllium, Total	46.9	0.30	mg/kg	48.4	ND	97	75-125	3	20	
Cadmium, Total	49.8	0.20	mg/kg	48.4	ND	103	75-125	1	20	
Chromium, Total	47.4	1.0	mg/kg	48.4	ND	98	75-125	4	20	
Cobalt, Total	48.5	0.50	mg/kg	48.4	ND	100	75-125	4	20	
Copper, Total	56.1	0.50	mg/kg	48.4	6.70	102	75-125	5	20	
Lead, Total	46.5	0.50	mg/kg	48.4	ND	96	75-125	4	20	
Molybdenum, Total	47.3	0.50	mg/kg	48.4	0.772	96	75-125	5	20	
Nickel, Total	49.1	1.0	mg/kg	48.4	0.453	101	75-125	4	20	
Selenium, Total	47.5	0.50	mg/kg	48.4	ND	98	75-125	4	20	
Silver, Total	45.5	0.50	mg/kg	48.4	ND	94	75-125	8	20	
Strontium, Total	95.0	0.50	mg/kg	96.8	1.45	97	75-125	4	20	
Thallium, Total	48.8	0.50	mg/kg	48.4	ND	101	75-125	3	20	
Vanadium, Total	46.7	1.0	mg/kg	48.4	ND	97	75-125	5	20	
Zinc, Total	62.4	5.0	mg/kg	48.4	13.1	102	75-125	3	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: W7J0596 - EPA 8270C										
Blank (W7J0596-BLK1)				**Prepared: 10/11/17 Analyzed: 11/01/17**						
Bis(2-ethylhexyl)phthalate	0.128	0.050	mg/kg							B
Carbazole	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surrogate(s)										
2,4,6-Tribromophenol	*0.103*		*mg/kg*	*0.500*		*21*	*32-103*			*S-11*
2-Fluorobiphenyl	*0.146*		*mg/kg*	*0.250*		*58*	*36-107*			
2-Fluorophenol	*0.280*		*mg/kg*	*0.500*		*56*	*33-119*			
Nitrobenzene-d5	*0.153*		*mg/kg*	*0.250*		*61*	*36-114*			
Phenol-d5	*0.339*		*mg/kg*	*0.500*		*68*	*40-118*			
Terphenyl-d14	*0.136*		*mg/kg*	*0.250*		*55*	*40-121*			
LCS (W7J0596-BS1)				**Prepared: 10/11/17 Analyzed: 11/01/17**						
1,2,4-Trichlorobenzene	0.673	0.050	mg/kg	1.25		54	32-111			
1,4-Dichlorobenzene	0.635	0.050	mg/kg	1.25		51	30-111			
2,4-Dinitrotoluene	0.947	0.050	mg/kg	1.25		76	49-119			
2-Chlorophenol	0.637	0.050	mg/kg	1.25		51	31-111			
4-Chloro-3-methylphenol	0.760	0.050	mg/kg	1.25		61	27-138			
4-Nitrophenol	0.567	0.050	mg/kg	1.25		45	35-109			
Acenaphthene	0.824	0.050	mg/kg	1.25		66	44-118			
N-Nitrosodi-n-propylamine	0.710	0.050	mg/kg	1.25		57	31-128			
Pentachlorophenol	0.188	0.050	mg/kg	1.25		15	11-114			
Phenol	0.694	0.050	mg/kg	1.25		56	33-106			
Pyrene	0.942	0.050	mg/kg	1.25		75	56-127			
Surrogate(s)										
2,4,6-Tribromophenol	*1.77*		*mg/kg*	*2.50*		*71*	*32-103*			
2-Fluorobiphenyl	*0.749*		*mg/kg*	*1.25*		*60*	*36-107*			
2-Fluorophenol	*1.31*		*mg/kg*	*2.50*		*52*	*33-119*			
Nitrobenzene-d5	*0.681*		*mg/kg*	*1.25*		*54*	*36-114*			
Phenol-d5	*1.50*		*mg/kg*	*2.50*		*60*	*40-118*			
Terphenyl-d14	*0.900*		*mg/kg*	*1.25*		*72*	*40-121*			
Matrix Spike (W7J0596-MS1)	**Source: 7I08037-01**			**Prepared: 10/11/17 Analyzed: 11/01/17**						
1,2,4-Trichlorobenzene	8.82	0.47	mg/kg	11.7	ND	75	29-108			M-02
1,4-Dichlorobenzene	7.26	0.47	mg/kg	11.7	ND	62	37-96			M-02
2,4-Dinitrotoluene	10.3	0.47	mg/kg	11.7	0.0992	87	45-106			M-02
2-Chlorophenol	8.25	0.47	mg/kg	11.7	ND	71	35-97			M-02
4-Chloro-3-methylphenol	9.08	0.47	mg/kg	11.7	ND	78	38-114			M-02
4-Nitrophenol	9.25	0.47	mg/kg	11.7	0.272	77	28-115			M-02
Acenaphthene	10.1	0.47	mg/kg	11.7	ND	86	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: W7J0596 - EPA 8270C (Continued)										
Matrix Spike (W7J0596-MS1)	**Source: 7I08037-01**			**Prepared: 10/11/17**	**Analyzed: 11/01/17**					
N-Nitrosodi-n-propylamine	9.60	0.47	mg/kg	11.7	0.143	81	31-120			M-02
Pentachlorophenol	9.04	0.47	mg/kg	11.7	0.250	75	23-114			M-02
Phenol	9.01	0.47	mg/kg	11.7	ND	77	31-102			M-02
Pyrene	8.03	0.47	mg/kg	11.7	ND	69	47-122			M-02
Surrogate(s)										
2,4,6-Tribromophenol	*24.1*		*mg/kg*	*23.4*		*103*	*32-103*			*M-02*
2-Fluorobiphenyl	*8.88*		*mg/kg*	*11.7*		*76*	*36-107*			*M-02*
2-Fluorophenol	*16.4*		*mg/kg*	*23.4*		*70*	*33-119*			*M-02*
Nitrobenzene-d5	*9.19*		*mg/kg*	*11.7*		*79*	*36-114*			*M-02*
Phenol-d5	*20.6*		*mg/kg*	*23.4*		*88*	*40-118*			*M-02*
Terphenyl-d14	*7.38*		*mg/kg*	*11.7*		*63*	*40-121*			*M-02*
Matrix Spike Dup (W7J0596-MSD1)	**Source: 7I08037-01**			**Prepared: 10/11/17**	**Analyzed: 11/01/17**					
1,2,4-Trichlorobenzene	6.52	0.46	mg/kg	11.4	ND	57	29-108	30	30	M-02
1,4-Dichlorobenzene	5.12	0.46	mg/kg	11.4	ND	45	37-96	35	30	M-02, MS-05
2,4-Dinitrotoluene	8.14	0.46	mg/kg	11.4	0.0992	70	45-106	23	30	M-02
2-Chlorophenol	6.88	0.46	mg/kg	11.4	ND	60	35-97	18	30	M-02
4-Chloro-3-methylphenol	7.65	0.46	mg/kg	11.4	ND	67	38-114	17	30	M-02
4-Nitrophenol	7.68	0.46	mg/kg	11.4	0.272	65	28-115	19	30	M-02
Acenaphthene	7.67	0.46	mg/kg	11.4	ND	67	49-103	27	30	M-02
N-Nitrosodi-n-propylamine	7.87	0.46	mg/kg	11.4	0.143	68	31-120	20	30	M-02
Pentachlorophenol	6.20	0.46	mg/kg	11.4	0.250	52	23-114	37	30	M-02, MS-05
Phenol	7.69	0.46	mg/kg	11.4	ND	67	31-102	16	30	M-02
Pyrene	4.78	0.46	mg/kg	11.4	ND	42	47-122	51	30	M-02, MS-05
Surrogate(s)										
2,4,6-Tribromophenol	*20.8*		*mg/kg*	*22.8*		*91*	*32-103*			*M-02*
2-Fluorobiphenyl	*8.41*		*mg/kg*	*11.4*		*74*	*36-107*			*M-02*
2-Fluorophenol	*15.2*		*mg/kg*	*22.8*		*67*	*33-119*			*M-02*
Nitrobenzene-d5	*8.87*		*mg/kg*	*11.4*		*78*	*36-114*			*M-02*
Phenol-d5	*19.5*		*mg/kg*	*22.8*		*85*	*40-118*			*M-02*
Terphenyl-d14	*4.79*		*mg/kg*	*11.4*		*42*	*40-121*			*M-02*

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Project Manager: Robert Hartsock

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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: W7J0598 - EPA 8270C SIM										
Blank (W7J0598-BLK1)				**Prepared: 10/11/17 Analyzed: 10/16/17**						
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	*96.1*		*ug/kg*	*167*		*58*	*0.1-109*			
Nitrobenzene-d5	*106*		*ug/kg*	*167*		*63*	*0.1-107*			
Terphenyl-d14	*162*		*ug/kg*	*167*		*97*	*28-128*			
LCS (W7J0598-BS1)				**Prepared: 10/11/17 Analyzed: 10/16/17**						
Acenaphthene	216	5.0	ug/kg	333		65	27-103			
Acenaphthylene	229	5.0	ug/kg	333		69	29-112			
Anthracene	247	5.0	ug/kg	333		74	31-119			
Benzo (a) anthracene	281	5.0	ug/kg	333		84	26-132			
Benzo (a) pyrene	317	5.0	ug/kg	333		95	19-146			
Benzo (b) fluoranthene	317	5.0	ug/kg	333		95	40-120			
Benzo (g,h,i) perylene	287	5.0	ug/kg	333		86	18-135			
Benzo (k) fluoranthene	290	5.0	ug/kg	333		87	40-120			
Chrysene	283	5.0	ug/kg	333		85	40-120			
Dibenzo (a,h) anthracene	308	5.0	ug/kg	333		92	20-137			
Fluoranthene	297	5.0	ug/kg	333		89	33-123			
Fluorene	233	5.0	ug/kg	333		70	33-106			
Indeno (1,2,3-cd) pyrene	307	5.0	ug/kg	333		92	16-136			
Naphthalene	199	5.0	ug/kg	333		60	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: W7J0598 - EPA 8270C SIM (Continued)										
LCS (W7J0598-BS1)				**Prepared: 10/11/17 Analyzed: 10/16/17**						
Phenanthrene	248	5.0	ug/kg	333		74	32-110			
Pyrene	279	5.0	ug/kg	333		84	34-122			
Surrogate(s)										
2-Fluorobiphenyl		*89.8*	*ug/kg*	*167*		*54*	*0.1-109*			
Nitrobenzene-d5		*83.0*	*ug/kg*	*167*		*50*	*0.1-107*			
Terphenyl-d14		*129*	*ug/kg*	*167*		*77*	*28-128*			
Matrix Spike (W7J0598-MS1)	**Source: 7I08037-10**			**Prepared: 10/11/17 Analyzed: 10/16/17**						
Acenaphthene	3900	69	ug/kg	4630	ND	84	5-115			M-02
Acenaphthylene	3250	69	ug/kg	4630	ND	70	8-111			M-02
Anthracene	3940	69	ug/kg	4630	ND	85	3-132			M-02
Benzo (a) anthracene	3570	69	ug/kg	4630	ND	77	14-125			M-02
Benzo (a) pyrene	2330	69	ug/kg	4630	ND	50	2-138			M-02
Benzo (b) fluoranthene	2810	69	ug/kg	4630	ND	61	20-150			M-02
Benzo (g,h,i) perylene	1550	69	ug/kg	4630	ND	33	9-129			M-02
Benzo (k) fluoranthene	2490	69	ug/kg	4630	ND	54	20-150			M-02
Chrysene	3850	69	ug/kg	4630	ND	83	20-150			M-02
Dibenzo (a,h) anthracene	1980	69	ug/kg	4630	ND	43	10-144			M-02
Fluoranthene	5000	69	ug/kg	4630	ND	108	11-127			M-02
Fluorene	4140	69	ug/kg	4630	ND	90	4-125			M-02
Indeno (1,2,3-cd) pyrene	2180	69	ug/kg	4630	ND	47	3-137			M-02
Naphthalene	3010	69	ug/kg	4630	ND	65	0.1-117			M-02
Phenanthrene	3990	69	ug/kg	4630	ND	86	10-122			M-02
Pyrene	4260	69	ug/kg	4630	ND	92	10-128			M-02
Surrogate(s)										
2-Fluorobiphenyl		*1310*	*ug/kg*	*2310*		*56*	*0.1-109*			*M-02*
Nitrobenzene-d5		*1370*	*ug/kg*	*2310*		*59*	*0.1-107*			*M-02*
Terphenyl-d14		*2390*	*ug/kg*	*2310*		*103*	*28-128*			*M-02*
Matrix Spike Dup (W7J0598-MSD1)	**Source: 7I08037-10**			**Prepared: 10/11/17 Analyzed: 10/16/17**						
Acenaphthene	3300	68	ug/kg	4520	ND	73	5-115	17	30	M-02
Acenaphthylene	2750	68	ug/kg	4520	ND	61	8-111	17	30	M-02
Anthracene	3700	68	ug/kg	4520	ND	82	3-132	6	30	M-02
Benzo (a) anthracene	2590	68	ug/kg	4520	ND	57	14-125	32	30	M-02, Q-12
Benzo (a) pyrene	1700	68	ug/kg	4520	ND	37	2-138	31	30	M-02, Q-12
Benzo (b) fluoranthene	2110	68	ug/kg	4520	ND	47	20-150	28	30	M-02
Benzo (g,h,i) perylene	1380	68	ug/kg	4520	ND	31	9-129	11	30	M-02
Benzo (k) fluoranthene	1860	68	ug/kg	4520	ND	41	20-150	29	30	M-02
Chrysene	3690	68	ug/kg	4520	ND	82	20-150	4	30	M-02
Dibenzo (a,h) anthracene	1570	68	ug/kg	4520	ND	35	10-144	23	30	M-02

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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: W7J0598 - EPA 8270C SIM (Continued)										
Matrix Spike Dup (W7J0598-MSD1)	**Source: 7I08037-10**			**Prepared: 10/11/17**	**Analyzed: 10/16/17**					
Fluoranthene	3900	68	ug/kg	4520	ND	86	11-127	25	30	M-02
Fluorene	3630	68	ug/kg	4520	ND	80	4-125	13	30	M-02
Indeno (1,2,3-cd) pyrene	1740	68	ug/kg	4520	ND	39	3-137	22	30	M-02
Naphthalene	2600	68	ug/kg	4520	ND	57	0.1-117	15	30	M-02
Phenanthrene	3730	68	ug/kg	4520	ND	82	10-122	7	30	M-02
Pyrene	3090	68	ug/kg	4520	ND	68	10-128	32	30	M-02, Q-12
Surrogate(s)										
2-Fluorobiphenyl		*1350*	*ug/kg*	*2260*		*60*	*0.1-109*			*M-02*
Nitrobenzene-d5		*1210*	*ug/kg*	*2260*		*53*	*0.1-107*			*M-02*
Terphenyl-d14		*2170*	*ug/kg*	*2260*		*96*	*28-128*			*M-02*

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Quality Control Results

(Continued)

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: W7J0768 - EPA 8260B										
Blank (W7J0768-BLK1)				**Prepared: 10/13/17 Analyzed: 10/14/17**						
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: W7J0768 - EPA 8260B (Continued)										
Blank (W7J0768-BLK1)				**Prepared: 10/13/17 Analyzed: 10/14/17**						
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		*47.5*	*ug/kg*	*50.0*		*95*	*78-140*			
4-Bromofluorobenzene		*51.0*	*ug/kg*	*50.0*		*102*	*85-116*			
Dibromofluoromethane		*47.5*	*ug/kg*	*50.0*		*95*	*84-120*			
Toluene-d8		*49.3*	*ug/kg*	*50.0*		*99*	*82-120*			
LCS (W7J0768-BS1)				**Prepared & Analyzed: 10/13/17**						
1,1,1,2-Tetrachloroethane	52.2	5.0	ug/kg	50.0		104	81-120			

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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: W7J0768 - EPA 8260B (Continued)										
LCS (W7J0768-BS1)				**Prepared & Analyzed: 10/13/17**						
1,1,1-Trichloroethane	51.2	5.0	ug/kg	50.0		102	78-125			
1,1,2,2-Tetrachloroethane	48.9	5.0	ug/kg	50.0		98	67-115			
1,1,2-Trichloroethane	49.9	5.0	ug/kg	50.0		100	85-121			
1,1-Dichloroethane	49.2	5.0	ug/kg	50.0		98	84-118			
1,1-Dichloroethene	52.9	5.0	ug/kg	50.0		106	80-123			
1,1-Dichloropropene	52.8	5.0	ug/kg	50.0		106	79-128			
1,2,3-Trichlorobenzene	52.1	5.0	ug/kg	50.0		104	36-201			
1,2,3-Trichloropropane	49.9	5.0	ug/kg	50.0		100	65-115			
1,2,4-Trichlorobenzene	53.5	5.0	ug/kg	50.0		107	69-143			
1,2,4-Trimethylbenzene	55.4	5.0	ug/kg	50.0		111	70-119			
1,2-Dibromo-3-chloropropane	46.8	5.0	ug/kg	50.0		94	62-140			
1,2-Dibromoethane (EDB)	47.9	5.0	ug/kg	50.0		96	86-125			
1,2-Dichloroethane	44.7	5.0	ug/kg	50.0		89	74-123			
1,2-Dichloropropane	50.9	5.0	ug/kg	50.0		102	83-122			
1,3,5-Trimethylbenzene	55.4	5.0	ug/kg	50.0		111	66-122			
1,3-Dichloropropane	48.0	5.0	ug/kg	50.0		96	85-122			
2,2-Dichloropropane	49.8	5.0	ug/kg	50.0		100	78-124			
2-Butanone	42.3	5.0	ug/kg	50.0		85	65-139			
2-Chloroethyl vinyl ether	51.6	5.0	ug/kg	50.0		103	62-134			
2-Chlorotoluene	56.8	5.0	ug/kg	50.0		114	65-118			
2-Hexanone	46.7	5.0	ug/kg	50.0		93	72-138			
4-Chlorotoluene	55.3	5.0	ug/kg	50.0		111	71-116			
4-Methyl-2-pentanone	47.6	5.0	ug/kg	50.0		95	70-133			
Acetone	37.4	5.0	ug/kg	50.0		75	57-138			
Acrolein	46.2	5.0	ug/kg	50.0		92	57-139			
Acrylonitrile	45.9	5.0	ug/kg	50.0		92	78-124			
Benzene	51.0	5.0	ug/kg	50.0		102	83-121			
Bromobenzene	52.0	5.0	ug/kg	50.0		104	67-115			
Bromochloromethane	47.8	5.0	ug/kg	50.0		96	82-117			
Bromodichloromethane	46.0	5.0	ug/kg	50.0		92	78-122			
Bromoform	48.8	5.0	ug/kg	50.0		98	83-125			
Bromomethane	47.9	5.0	ug/kg	50.0		96	58-133			
Carbon tetrachloride	51.0	5.0	ug/kg	50.0		102	79-126			
Chlorobenzene	48.8	5.0	ug/kg	50.0		98	84-118			
Chloroethane	46.6	5.0	ug/kg	50.0		93	58-135			
Chloroform	48.2	5.0	ug/kg	50.0		96	80-123			
Chloromethane	51.8	5.0	ug/kg	50.0		104	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: W7J0768 - EPA 8260B (Continued)										
LCS (W7J0768-BS1)				**Prepared & Analyzed: 10/13/17**						
cis-1,2-Dichloroethene	52.7	5.0	ug/kg	50.0		105	83-120			
cis-1,3-Dichloropropene	50.8	5.0	ug/kg	50.0		102	88-123			
Dibromochloromethane	48.6	5.0	ug/kg	50.0		97	83-124			
Dibromomethane	46.3	5.0	ug/kg	50.0		93	84-123			
Dichlorodifluoromethane (Freon 12)	56.7	5.0	ug/kg	50.0		113	67-126			
Ethylbenzene	54.6	5.0	ug/kg	50.0		109	80-120			
Hexachlorobutadiene	53.0	5.0	ug/kg	50.0		106	70-130			
Isopropylbenzene	56.0	5.0	ug/kg	50.0		112	66-122			
m,p-Xylene	55.4	5.0	ug/kg	50.0		111	78-120			
m-Dichlorobenzene	52.4	5.0	ug/kg	50.0		105	75-119			
Methyl tert-butyl ether (MTBE)	47.7	5.0	ug/kg	50.0		95	83-122			
Methylene chloride	46.0	5.0	ug/kg	50.0		92	76-118			
Naphthalene	47.3	5.0	ug/kg	50.0		95	42-190			
n-Butylbenzene	59.0	5.0	ug/kg	50.0		118	68-119			
n-Propylbenzene	60.2	5.0	ug/kg	50.0		120	64-120			
o-Dichlorobenzene	51.7	5.0	ug/kg	50.0		103	77-117			
o-Xylene	53.2	5.0	ug/kg	50.0		106	77-126			
p-Dichlorobenzene	50.8	5.0	ug/kg	50.0		102	76-119			
p-Isopropyltoluene	58.6	5.0	ug/kg	50.0		117	70-123			
sec-Butylbenzene	53.3	5.0	ug/kg	50.0		107	67-120			
Styrene	51.0	5.0	ug/kg	50.0		102	84-125			
tert-Butylbenzene	51.6	5.0	ug/kg	50.0		103	70-119			
Tetrachloroethene	52.6	5.0	ug/kg	50.0		105	80-129			
Toluene	52.5	5.0	ug/kg	50.0		105	81-126			
trans-1,2-Dichloroethene	51.6	5.0	ug/kg	50.0		103	82-123			
trans-1,3-Dichloropropene	49.3	5.0	ug/kg	50.0		99	81-131			
Trichloroethene	49.6	5.0	ug/kg	50.0		99	82-118			
Trichlorofluoromethane	44.9	5.0	ug/kg	50.0		90	72-129			
Vinyl chloride	52.1	5.0	ug/kg	50.0		104	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4		*47.0*	*ug/kg*	*50.0*		*94*	*78-140*			
4-Bromofluorobenzene		*48.8*	*ug/kg*	*50.0*		*98*	*85-116*			
Dibromofluoromethane		*47.7*	*ug/kg*	*50.0*		*95*	*84-120*			
Toluene-d8		*50.7*	*ug/kg*	*50.0*		*101*	*82-120*			
Matrix Spike (W7J0768-MS1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17 Analyzed: 10/14/17**						
1,1,1,2-Tetrachloroethane	2470	250	ug/kg	2500	42.0	97	50-150			
1,1,1-Trichloroethane	2440	250	ug/kg	2500	ND	98	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: W7J0768 - EPA 8260B (Continued)										
Matrix Spike (W7J0768-MS1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17**	**Analyzed: 10/14/17**					
1,1,2,2-Tetrachloroethane	2310	250	ug/kg	2500	ND	92	50-150			
1,1,2-Trichloroethane	2300	250	ug/kg	2500	ND	92	50-150			
1,1-Dichloroethane	2430	250	ug/kg	2500	ND	97	50-150			
1,1-Dichloroethene	2580	250	ug/kg	2500	ND	103	38-139			
1,1-Dichloropropene	2580	250	ug/kg	2500	ND	103	50-150			
1,2,3-Trichlorobenzene	2370	250	ug/kg	2500	56.9	92	50-150			
1,2,3-Trichloropropane	2400	250	ug/kg	2500	ND	96	50-150			
1,2,4-Trichlorobenzene	2420	250	ug/kg	2500	49.5	95	50-150			
1,2,4-Trimethylbenzene	2440	250	ug/kg	2500	559	75	50-150			
1,2-Dibromo-3-chloropropane	2300	250	ug/kg	2500	ND	92	50-150			
1,2-Dibromoethane (EDB)	2300	250	ug/kg	2500	ND	92	50-150			
1,2-Dichloroethane	2310	250	ug/kg	2500	ND	92	50-150			
1,2-Dichloropropane	2480	250	ug/kg	2500	ND	99	50-150			
1,3,5-Trimethylbenzene	2460	250	ug/kg	2500	549	76	50-150			
1,3-Dichloropropane	2400	250	ug/kg	2500	ND	96	50-150			
2,2-Dichloropropane	2380	250	ug/kg	2500	ND	95	50-150			
2-Butanone	2460	250	ug/kg	2500	ND	99	50-150			
2-Chloroethyl vinyl ether	3500	250	ug/kg	2500	ND	140	50-150			
2-Chlorotoluene	2550	250	ug/kg	2500	49.5	100	50-150			
2-Hexanone	2480	250	ug/kg	2500	86.5	96	50-150			
4-Chlorotoluene	2560	250	ug/kg	2500	ND	103	50-150			
4-Methyl-2-pentanone	2490	250	ug/kg	2500	ND	99	50-150			
Acetone	2290	250	ug/kg	2500	467	73	50-150			
Acrolein	1170	250	ug/kg	2500	ND	47	50-150			MS-05
Acrylonitrile	3060	250	ug/kg	2500	ND	123	50-150			
Benzene	2490	250	ug/kg	2500	ND	100	30-134			
Bromobenzene	2420	250	ug/kg	2500	ND	97	50-150			
Bromochloromethane	2390	250	ug/kg	2500	ND	96	50-150			
Bromodichloromethane	2310	250	ug/kg	2500	ND	92	50-150			
Bromoform	2330	250	ug/kg	2500	ND	93	50-150			
Bromomethane	1310	250	ug/kg	2500	ND	52	50-150			
Carbon tetrachloride	2400	250	ug/kg	2500	ND	96	50-150			
Chlorobenzene	2450	250	ug/kg	2500	34.6	97	3-135			
Chloroethane	829	250	ug/kg	2500	ND	33	50-150			MS-05
Chloroform	2350	250	ug/kg	2500	49.5	92	50-150			
Chloromethane	2400	250	ug/kg	2500	ND	96	50-150			
cis-1,2-Dichloroethene	2490	250	ug/kg	2500	ND	100	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: W7J0768 - EPA 8260B (Continued)										
Matrix Spike (W7J0768-MS1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17 Analyzed: 10/14/17**						
cis-1,3-Dichloropropene	2480	250	ug/kg	2500	ND	99	50-150			
Dibromochloromethane	2260	250	ug/kg	2500	ND	90	50-150			
Dibromomethane	2300	250	ug/kg	2500	ND	92	50-150			
Dichlorodifluoromethane (Freon 12)	2410	250	ug/kg	2500	ND	96	50-150			
Ethylbenzene	2610	250	ug/kg	2500	44.5	102	50-150			
Hexachlorobutadiene	2180	250	ug/kg	2500	ND	87	50-150			
Isopropylbenzene	2500	250	ug/kg	2500	551	78	50-150			
m,p-Xylene	2660	250	ug/kg	2500	ND	107	50-150			
m-Dichlorobenzene	2350	250	ug/kg	2500	54.4	92	50-150			
Methyl tert-butyl ether (MTBE)	2540	250	ug/kg	2500	ND	102	50-150			
Methylene chloride	2350	250	ug/kg	2500	183	87	50-150			
Naphthalene	2370	250	ug/kg	2500	843	61	50-150			
n-Butylbenzene	2490	250	ug/kg	2500	ND	100	50-150			
n-Propylbenzene	2610	250	ug/kg	2500	ND	104	50-150			
o-Dichlorobenzene	2380	250	ug/kg	2500	44.5	94	50-150			
o-Xylene	2520	250	ug/kg	2500	492	81	50-150			
p-Dichlorobenzene	2310	250	ug/kg	2500	51.9	90	50-150			
p-Isopropyltoluene	2570	250	ug/kg	2500	927	66	50-150			
sec-Butylbenzene	3010	250	ug/kg	2500	ND	120	50-150			
Styrene	2420	250	ug/kg	2500	546	75	50-150			
tert-Butylbenzene	2470	250	ug/kg	2500	663	72	50-150			
Tetrachloroethene	2350	250	ug/kg	2500	ND	94	50-150			
Toluene	2450	250	ug/kg	2500	59.3	96	11-140			
trans-1,2-Dichloroethene	2500	250	ug/kg	2500	ND	100	50-150			
trans-1,3-Dichloropropene	2420	250	ug/kg	2500	ND	97	50-150			
Trichloroethene	2430	250	ug/kg	2500	ND	97	10-144			
Trichlorofluoromethane	1220	250	ug/kg	2500	ND	49	50-150			MS-05
Vinyl chloride	2580	250	ug/kg	2500	ND	103	50-150			
Surrogate(s)										
1,2-Dichloroethane-d4	*50.5*		*ug/kg*	*50.0*		*101*	*78-140*			
4-Bromofluorobenzene	*52.8*		*ug/kg*	*50.0*		*106*	*85-116*			
Dibromofluoromethane	*49.1*		*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8	*49.6*		*ug/kg*	*50.0*		*99*	*82-120*			
Matrix Spike Dup (W7J0768-MSD1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17 Analyzed: 10/14/17**						
1,1,1,2-Tetrachloroethane	2630	250	ug/kg	2500	42.0	104	50-150	7	25	
1,1,1-Trichloroethane	2770	250	ug/kg	2500	ND	111	50-150	13	25	
1,1,2,2-Tetrachloroethane	2570	250	ug/kg	2500	ND	103	50-150	11	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: W7J0768 - EPA 8260B (Continued)										
Matrix Spike Dup (W7J0768-MSD1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17**	**Analyzed: 10/14/17**					
1,1,2-Trichloroethane	2530	250	ug/kg	2500	ND	101	50-150	10	25	
1,1-Dichloroethane	2720	250	ug/kg	2500	ND	109	50-150	11	25	
1,1-Dichloroethene	2900	250	ug/kg	2500	ND	116	38-139	12	25	
1,1-Dichloropropene	2910	250	ug/kg	2500	ND	116	50-150	12	25	
1,2,3-Trichlorobenzene	2690	250	ug/kg	2500	56.9	105	50-150	13	25	
1,2,3-Trichloropropane	2710	250	ug/kg	2500	ND	108	50-150	12	25	
1,2,4-Trichlorobenzene	2740	250	ug/kg	2500	49.5	108	50-150	12	25	
1,2,4-Trimethylbenzene	2770	250	ug/kg	2500	559	89	50-150	13	25	
1,2-Dibromo-3-chloropropane	2580	250	ug/kg	2500	ND	103	50-150	11	25	
1,2-Dibromoethane (EDB)	2590	250	ug/kg	2500	ND	103	50-150	12	25	
1,2-Dichloroethane	2600	250	ug/kg	2500	ND	104	50-150	12	25	
1,2-Dichloropropane	2740	250	ug/kg	2500	ND	110	50-150	10	25	
1,3,5-Trimethylbenzene	2810	250	ug/kg	2500	549	90	50-150	13	25	
1,3-Dichloropropane	2680	250	ug/kg	2500	ND	107	50-150	11	25	
2,2-Dichloropropane	2720	250	ug/kg	2500	ND	109	50-150	13	25	
2-Butanone	2600	250	ug/kg	2500	ND	104	50-150	5	25	
2-Chloroethyl vinyl ether	3520	250	ug/kg	2500	ND	141	50-150	0.5	25	
2-Chlorotoluene	2930	250	ug/kg	2500	49.5	115	50-150	14	25	
2-Hexanone	2770	250	ug/kg	2500	86.5	107	50-150	11	25	
4-Chlorotoluene	2870	250	ug/kg	2500	ND	115	50-150	11	25	
4-Methyl-2-pentanone	2890	250	ug/kg	2500	ND	116	50-150	15	25	
Acetone	2660	250	ug/kg	2500	467	88	50-150	15	25	
Acrolein	874	250	ug/kg	2500	ND	35	50-150	29	25	MS-05
Acrylonitrile	2780	250	ug/kg	2500	ND	111	50-150	10	25	
Benzene	2800	250	ug/kg	2500	ND	112	30-134	12	25	
Bromobenzene	2720	250	ug/kg	2500	ND	109	50-150	12	25	
Bromochloromethane	2800	250	ug/kg	2500	ND	112	50-150	16	25	
Bromodichloromethane	2560	250	ug/kg	2500	ND	102	50-150	10	25	
Bromoform	2440	250	ug/kg	2500	ND	98	50-150	5	25	
Bromomethane	1520	250	ug/kg	2500	ND	61	50-150	15	25	
Carbon tetrachloride	2730	250	ug/kg	2500	ND	109	50-150	13	25	
Chlorobenzene	2620	250	ug/kg	2500	34.6	103	3-135	7	25	
Chloroethane	1090	250	ug/kg	2500	ND	44	50-150	27	25	MS-05
Chloroform	2640	250	ug/kg	2500	49.5	104	50-150	12	25	
Chloromethane	2700	250	ug/kg	2500	ND	108	50-150	12	25	
cis-1,2-Dichloroethene	2800	250	ug/kg	2500	ND	112	50-150	12	25	
cis-1,3-Dichloropropene	2770	250	ug/kg	2500	ND	111	50-150	11	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: W7J0768 - EPA 8260B (Continued)										
Matrix Spike Dup (W7J0768-MSD1)	**Source: 7I07045-08RE1**			**Prepared: 10/13/17**	**Analyzed: 10/14/17**					
Dibromochloromethane	2580	250	ug/kg	2500	ND	103	50-150	13	25	
Dibromomethane	2530	250	ug/kg	2500	ND	101	50-150	9	25	
Dichlorodifluoromethane (Freon 12)	2650	250	ug/kg	2500	ND	106	50-150	9	25	
Ethylbenzene	2810	250	ug/kg	2500	44.5	111	50-150	8	25	
Hexachlorobutadiene	2490	250	ug/kg	2500	ND	100	50-150	14	25	
Isopropylbenzene	2860	250	ug/kg	2500	551	93	50-150	13	25	
m,p-Xylene	2910	250	ug/kg	2500	ND	116	50-150	9	25	
m-Dichlorobenzene	2700	250	ug/kg	2500	54.4	106	50-150	14	25	
Methyl tert-butyl ether (MTBE)	2900	250	ug/kg	2500	ND	116	50-150	13	25	
Methylene chloride	2610	250	ug/kg	2500	183	97	50-150	10	25	
Naphthalene	2650	250	ug/kg	2500	843	72	50-150	11	25	
n-Butylbenzene	2840	250	ug/kg	2500	ND	114	50-150	13	25	
n-Propylbenzene	2970	250	ug/kg	2500	ND	119	50-150	13	25	
o-Dichlorobenzene	2710	250	ug/kg	2500	44.5	107	50-150	13	25	
o-Xylene	2780	250	ug/kg	2500	492	91	50-150	10	25	
p-Dichlorobenzene	2580	250	ug/kg	2500	51.9	101	50-150	11	25	
p-Isopropyltoluene	2930	250	ug/kg	2500	927	80	50-150	13	25	
sec-Butylbenzene	3390	250	ug/kg	2500	ND	136	50-150	12	25	
Styrene	2620	250	ug/kg	2500	546	83	50-150	8	25	
tert-Butylbenzene	2830	250	ug/kg	2500	663	87	50-150	14	25	
Tetrachloroethene	2710	250	ug/kg	2500	ND	108	50-150	14	25	
Toluene	2760	250	ug/kg	2500	59.3	108	11-140	12	25	
trans-1,2-Dichloroethene	2800	250	ug/kg	2500	ND	112	50-150	11	25	
trans-1,3-Dichloropropene	2710	250	ug/kg	2500	ND	109	50-150	11	25	
Trichloroethene	2750	250	ug/kg	2500	ND	110	10-144	12	25	
Trichlorofluoromethane	1400	250	ug/kg	2500	ND	56	50-150	13	25	
Vinyl chloride	2860	250	ug/kg	2500	ND	114	50-150	10	25	
Surrogate(s)										
1,2-Dichloroethane-d4		*50.0*	*ug/kg*	*50.0*		*100*	*78-140*			
4-Bromofluorobenzene		*49.6*	*ug/kg*	*50.0*		*99*	*85-116*			
Dibromofluoromethane		*49.2*	*ug/kg*	*50.0*		*98*	*84-120*			
Toluene-d8		*50.3*	*ug/kg*	*50.0*		*101*	*82-120*			

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Notes and Definitions

Item	Definition
B	Blank contamination. The analyte was found in the associated blank as well as in the sample.
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.
M-05	Due to the nature of matrix interferences, sample 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-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
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 pistachios 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	25	144.8	140	150	1196	1100	1200
1,1,1-Trichloroethane	71-55-6	EPA 8260B	ug/kg	25	338.8	320	350	1196	1100	1200
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260B	ug/kg	25	222.8	210	230	1196	1100	1200
1,1,2-Trichloroethane	79-00-5	EPA 8260B	ug/kg	25	338.8	320	350	1196	1100	1200
1,1-Dichloroethane	75-34-3	EPA 8260B	ug/kg	25	206.8	200	210	1196	1100	1200
1,1-Dichloroethene	75-35-4	EPA 8260B	ug/kg	25	242	230	250	1196	1100	1200
1,1-Dichloropropene	563-58-6	EPA 8260B	ug/kg	25	458	430	470	1196	1100	1200
1,2,3-Trichlorobenzene	87-61-6	EPA 8260B	ug/kg	25	242	230	250	1196	1100	1200
1,2,3-Trichloropropane	96-18-4	EPA 8260B	ug/kg	25	264.8	250	270	1196	1100	1200
1,2,4-Trichlorobenzene	120-82-1	EPA 8260B	ug/kg	25	226	210	230	1196	1100	1200
1,2,4-Trimethylbenzene	95-63-6	EPA 8260B	ug/kg	25	116	110	120	1196	1100	1200
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260B	ug/kg	25	362	340	370	1196	1100	1200
1,2-Dibromoethane (EDB)	106-93-4	EPA 8260B	ug/kg	25	386.8	360	400	1196	1100	1200
1,2-Dichloroethane	107-06-2	EPA 8260B	ug/kg	25	289.2	270	300	1196	1100	1200
1,2-Dichloropropane	78-87-5	EPA 8260B	ug/kg	25	226	210	230	1196	1100	1200
1,3,5-Trimethylbenzene	108-67-8	EPA 8260B	ug/kg	25	119.6	110	120	1196	1100	1200
1,3-Dichloropropane	142-28-9	EPA 8260B	ug/kg	25	188	180	190	1196	1100	1200
1-Methylnaphthalene	90-12-0	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
2,2-Dichloropropane	594-20-7	EPA 8260B	ug/kg	25	220.8	210	230	1196	1100	1200
2-Butanone	78-93-3	EPA 8260B	ug/kg	25	362	340	370	1196	1100	1200
2-Chloroethyl vinyl ether	110-75-8	EPA 8260B	ug/kg	25	242	230	250	1196	1100	1200
2-Chlorotoluene	95-49-8	EPA 8260B	ug/kg	25	176	170	180	1196	1100	1200
2-Hexanone	591-78-6	EPA 8260B	ug/kg	25	289.2	270	300	1196	1100	1200
2-Methylnaphthalene	91-57-6	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	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	25	168.8	160	170	1196	1100	1200
4-Methyl-2-pentanone	108-10-1	EPA 8260B	ug/kg	25	338.8	320	350	1196	1100	1200
Acenaphthene	83-32-9	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Acenaphthylene	208-96-8	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Acetone	67-64-1	EPA 8260B	ug/kg	25	603.2	570	620	1196	1100	1200
Acrolein	107-02-8	EPA 8260B	ug/kg	25	435.2	410	450	1196	1100	1200
Acrylonitrile	107-13-1	EPA 8260B	ug/kg	25	410	390	420	1196	1100	1200
Anthracene	120-12-7	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	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	25	338.8	320	350	1196	1100	1200
Benzo (a) anthracene	56-55-3	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Benzo (a) pyrene	50-32-8	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Benzo (b) fluoranthene	205-99-2	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Benzo (g,h,i) perylene	191-24-2	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Benzo (k) fluoranthene	207-08-9	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Beryllium, Total	7440-41-7	EPA 6020B	mg/kg	24	0.2	0.2	0.2	0.3	0.3	0.3
Bis(2-ethylhexyl)phthalate	117-81-7	EPA 8270C	mg/kg	24	0.11	0.099	0.12	0.46	0.41	0.5
Bromobenzene	108-86-1	EPA 8260B	ug/kg	25	191.6	180	200	1196	1100	1200
Bromochloromethane	74-97-5	EPA 8260B	ug/kg	25	119.2	110	120	1196	1100	1200
Bromodichloromethane	75-27-4	EPA 8260B	ug/kg	25	173.6	160	180	1196	1100	1200
Bromoform	75-25-2	EPA 8260B	ug/kg	25	195.2	180	200	1196	1100	1200
Bromomethane	74-83-9	EPA 8260B	ug/kg	25	289.2	270	300	1196	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	0.083	0.074	0.089	0.46	0.41	0.5
Carbon tetrachloride	56-23-5	EPA 8260B	ug/kg	25	386.8	360	400	1196	1100	1200
Chlorobenzene	108-90-7	EPA 8260B	ug/kg	25	142.4	130	150	1196	1100	1200
Chloroethane	75-00-3	EPA 8260B	ug/kg	25	458	430	470	1196	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	25	216.4	200	220	1196	1100	1200
Chloromethane	74-87-3	EPA 8260B	ug/kg	25	135.2	130	140	1196	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	13.8	12	15	69.3	62	74
cis-1,2-Dichloroethene	156-59-2	EPA 8260B	ug/kg	25	242	230	250	1196	1100	1200
cis-1,3-Dichloropropene	10061-01-5	EPA 8260B	ug/kg	25	203.2	190	210	1196	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	13.8	12	15	69.3	62	74
Dibromochloromethane	124-48-1	EPA 8260B	ug/kg	25	386.8	360	400	1196	1100	1200
Dibromomethane	74-95-3	EPA 8260B	ug/kg	25	264.8	250	270	1196	1100	1200
Dichlorodifluoromethane (Freon 12)	75-71-8	EPA 8260B	ug/kg	25	196.8	190	200	1196	1100	1200
Ethylbenzene	100-41-4	EPA 8260B	ug/kg	25	86.88	82	90	1196	1100	1200
Fluoranthene	206-44-0	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Fluorene	86-73-7	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Hexachlorobutadiene	87-68-3	EPA 8260B	ug/kg	25	264.8	250	270	1196	1100	1200
Indeno (1,2,3-cd) pyrene	193-39-5	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Isopropylbenzene	98-82-8	EPA 8260B	ug/kg	25	138.4	130	140	1196	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	25	338.8	320	350	1196	1100	1200
m-Dichlorobenzene	541-73-1	EPA 8260B	ug/kg	25	168.8	160	170	1196	1100	1200
Methanol	67-56-1	EPA 8015D	mg/kg	24	55.0	47	65	206.3	180	240
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260B	ug/kg	25	242	230	250	1196	1100	1200
Methylene chloride	75-09-2	EPA 8260B	ug/kg	25	164.4	150	170	1196	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	13.8	12	15	69.3	62	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	25	314	300	320	1196	1100	1200
n-Butylbenzene	104-51-8	EPA 8260B	ug/kg	25	154.8	150	160	1196	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	25	122.8	120	130	1196	1100	1200
o-Dichlorobenzene	95-50-1	EPA 8260B	ug/kg	25	144.8	140	150	1196	1100	1200
o-Xylene	95-47-6	EPA 8260B	ug/kg	25	126	120	130	1196	1100	1200
p-Dichlorobenzene	106-46-7	EPA 8260B	ug/kg	25	168.8	160	170	1196	1100	1200
Phenanthrene	85-01-8	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Phenol	108-95-2	EPA 8270C	mg/kg	24	0.14	0.12	0.15	0.46	0.41	0.5
p-Isopropyltoluene	99-87-6	EPA 8260B	ug/kg	25	132.8	130	140	1196	1100	1200
Pyrene	129-00-0	EPA 8270C SIM	ug/kg	24	13.8	12	15	69.3	62	74
Pyridine	110-86-1	EPA 8270C	mg/kg	24	0.046	0.041	0.05	0.92	0.83	0.99
sec-Butylbenzene	135-98-8	EPA 8260B	ug/kg	25	109.6	100	110	1196	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	25	188	180	190	1196	1100	1200
tert-Butylbenzene	98-06-6	EPA 8260B	ug/kg	25	146.8	140	150	1196	1100	1200
Tetrachloroethene	127-18-4	EPA 8260B	ug/kg	25	362	340	370	1196	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	25	264.8	250	270	1196	1100	1200
trans-1,2-Dichloroethene	156-60-5	EPA 8260B	ug/kg	25	289.2	270	300	1196	1100	1200
trans-1,3-Dichloropropene	10061-02-6	EPA 8260B	ug/kg	25	314	300	320	1196	1100	1200
Trichloroethene	79-01-6	EPA 8260B	ug/kg	25	242	230	250	1196	1100	1200
Trichlorofluoromethane	75-69-4	EPA 8260B	ug/kg	25	628.4	590	650	1196	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	25	230	220	240	1196	1100	1200
Zinc, Total	7440-66-6	EPA 6020B	mg/kg	24	2.3	2.3	2.3	5	5	5