Facility Incinerator Waste Storage Pads A, B, C, D, E, F, G, 23, 24, and 24-0 Closure Report

DE State Permit Number HW04j22
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1.0 Introduction

The DuPont Experimental Station (site), located in Wilmington, Delaware (see Figure 1-1), has elected to close the facility's hazardous waste incinerator, and waste storage pads. Closure activities are being conducted in accordance with 7 DE Admin Code 1302,Delaware's Regulation Governing Hazardous Waste (DRGHW) Subpart G Section 264.110 through 264.120, and the schedules and requirements specified in the Closure Plan (Permit Attachment II-6) included with the Site's Permit for Hazardous Waste Storage (State Permit Number HW04j22; DuPont, 2020).

The CPS for each waste storage pad proposed for closure are detailed in Attachment II-6 Closure Plan – Modification (DuPont, 2020) and in the request to use alternate CPS values (see Appendix A). This closure report presents results of closure activities for each waste storage pad and provides conclusions drawn from the evaluation of these results.

A separate report will be submitted to document closure activities for the hazardous waste incinerator (see Figures 1-2 and 1-3 for the location of the incinerator area).

This closure report presents the following information in the identified sections:

- Section 2 describes the pertinent background information associated with this project.
- Section 3 presents the project purpose and objectives.
- Section 4 describes storage pad closure activities performed and associated results.
- Section 5 discusses the evaluation of the results.
- Section 6 summarizes the conclusion and associated recommendations.
- Section 7 provides the owner and Delaware Professional Engineer (PE) certification in accordance with the Closure Plan and DRGHW Section 264.115.
- Section 8 lists the references cited in this report.

2.0 Background

The 150-acre [0.61 square kilometers (km^2)] campus-style Experimental Station, located in Wilmington, Delaware, serves as the primary research and development facility for DuPont. In 1980, the Experimental Station submitted to the United States Environmental Protection Agency (EPA) a Resource Conservation and Recovery Act (RCRA) Hazardous Waste Part A Permit Application; the subsequent RCRA Hazardous Waste Part B Permit application was submitted in 1983.

In 1985, the State of Delaware, Department of Natural Resources and Environmental Control (DNREC) issued a RCRA hazardous waste storage permit to DuPont for the Experimental Station. The one year waste storage pads associated with this permit include Pads A, B, C, 23, 24, 24-0, D, E, and F (see Figure 2-1) and Pad G (see Figure 1-2).

This RCRA permitted Hazardous Waste Treatment facility operated from 1985 into 2020. In April 2020, DuPont notified DNREC of its intent to cease operations.

In July 2020, the DuPont Experimental Station “Permit for Hazardous Waste Storage” (State Permit Number HW04j22) was modified; the permit modification was approved by DNREC on July 10, 2020. The closure activities to attain storage pad closure followed the “Closure Procedure” identified in “Attachment II-6 Closure Plan – Modification” that is included in the Site’s Permit for Hazardous Waste Storage (DuPont, 2020). The storage pad closure activities were initiated in late July 2020.

3.0 Purpose and Objective

The purpose and objective of this report are as follows:

- Purpose: Review closure activities performed and present the associated results and conclusions for waste storage pads A, B, C, D, E, F, G, 23, 24, and 24-0.
- Objective: Obtain closure certification of the waste storage pads.

4.0 Closure Activities and Associated Results

In accordance with the modified Closure Plan (DuPont, 2020), the following activities were completed:

- On May 15, 2020, incinerator operation ceased.
- On August 14, 2020, the last containers of waste were removed from the storage pads.
- On August 27, 2020, the PE conducted the inspection of Pads A, B, C, D, E, F, G, 23, 24, and 24-0.
- On August 27 and 28, 2020, storage pad soil samples were collected from around the pads where surface soils were exposed (Pads A, B, G, 23, 24, and 24-0).
- On September 10, 2020, based on the PE inspection of the storage pads, pad cleaning and rinsate sampling were performed for Pads A, B, and C

The remainder of this section presents the storage pad field activities associated with the PE inspection, the storage pad soil sampling, and the storage pad rinsate sampling.

4.1 Professional Engineer Inspection

All pads were inspected by a Delaware licensed PE in accordance with the Attachment II-6 Closure Plan – Modification. The objective of the PE inspection was to confirm waste storage containers had been removed and determine if a “clean debris surface” was present. Criteria for a “clean debris surface” are defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.

Pads A, B, C, D, E, F, G, 23, 24, and 24-0 were inspected on August 27, 2020. At all pads, the concrete and metal surfaces showed evidence of weathering and wear from normal operations. However, when viewed without magnification during the PE Inspection, Pads D through G and Pads 23, 24, 24-0 were determined to be free of all visible contaminated soil and hazardous waste. Therefore, for these pads and metal equipment, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.

Stains of unknown origin were identified at Pads A, B, and C; therefore, a clean debris surface was not achieved. In accordance with the closure plan, rinsate was collected for Pads A, B, and C.

A photographic log documenting storage pad conditions is provided in Appendix B. In addition, Appendix B contains photographs of Pads 24 and 24-0 after the associated drum conveyor system had been removed.

4.2 Storage Pad Rinsate Sampling

A clean debris surface was not identified for Pads A, B, and C; pad cleaning and associated rinsate sampling was performed.

Pads A, B, and C (see Figure 4-1) were washed using Simple Green Oxy Solve Total Outdoor Cleaner and brushed with a stiff broom. Following the simple green wash, the pads were rinsed using potable water. Rinsing continued until no visible detergent remained. At this point, the drains to the pads were plugged, pads were rinsed, and water was allowed to accumulate on the pad.

Samples of accumulated rinse water were collected from the pads using plastic laboratory supplied deionized (DI) water containers. The DI water containers were rectangular and the tops were cut off to create a scoop that was capable of collecting relatively shallow levels of rinsate. Rinsate water was then transferred to laboratory supplied bottle ware and subsequently shipped to Eurofins Lancaster Laboratories Inc. in Lancaster, Pennsylvania, for analysis.

Each rinsate sample was analyzed for the rinsate CPS noted in Table 4-1. The CPS for rinsate was generated using Federal Drinking Water standard Maximum Contamination Levels (MCL). In the absence of an MCL, the EPA Regional Screening Level for Tapwater was used. In the absence of both standards the method detection limit (MDL) was used. The rinsate target analyte list and rinsate CPS are provided in Table 4-1.

Once rinsate sampling activities were completed, remaining rinse water on each pad was discharged to the process sewer.

Rinsate sampling activities were completed in accordance with the document “Waste Storage Pad Rinsate Sampling for Pads A, B, C Addendum to the Soil Sampling Work Plan for Closure of Waste Storage Pads A, B, G, 23, 24, 24-0, and the Facility Incinerator” (see Appendix C). The rinsate sampling analytical results are provided in Table 4-2. An exceedance-only summary table listing results only for rinsate constituents that exceed CPS is provided in Table 4-3. The Eurofins Lancaster Laboratories rinsate analytical report can be found in Appendix D.

4.3 Storage Pad Soil Sampling

Soil sampling was performed in accordance with the Attachment II-6 Closure Plan – Modification (DuPont, 2020) and the “Soil Sampling Work Plan for Closure of Waste Storage Pads A, B, G, 23, 24, 24-0, and the Facility Incinerator” (see Appendix E). No soil samples were required for Pads C, D, E, and F as described in the closure plan.

Soil samples associated with Pads A, B, G, 23, 24, and 24-0 were collected at a depth equal to the bottom depth of the pad (storage pads are 6 inches thick) or sump (depths varied), where present, unless a point of refusal occurred first. Proposed sample target depths and actual sample collection depths are provided in Table 4-4. Soil sample locations are identified in Figures 4-2 and 4-3. Soil sample lithologic descriptions can be found in Appendix F.

The soil samples collected where transferred at the site by courier to Eurofins Lancaster Laboratories The collected soil samples were analyzed for the target analyte list identified in “Attachment II -6 Closure Plan – Modification” in the “Permit for Hazardous Waste Storage” (DuPont, July 2020); the target analyte constituents can be found in Table 4-1.

The soil sample analytical results were screened against predetermined concentration-based closure performance standards (CPS). The CPS were defined as Environmental Protection Agency (EPA) Regional Screen Levels for industrial soils. In the absence of a Regional Screening Level, the Method Detection Limit (MDL) was used. CPS for soil are listed in Table 4-1.

The associated storage pad soil sampling analytical results are provided in Table 4-5. An exceedance-only summary table listing results for soil constituents that exceed CPS is provided in Table 4-6. The Eurofins Lancaster Laboratories soil analytical report can be found in Appendix G.

4.4 Deviations from Work Plan and/or Closure Plan

This section documents deviations from both the Closure Plan and the approved work plans associated with the PE inspection and the soil and rinsate sample collection activities.

4.4.1 PE Inspection Deviations

At the time of the PE inspections, the following equipment was still present on the waste storage pads:

- Pad 23 contained pumps and conveyance pipe that delivered No. 2 fuel oil and various solvents from the fuel oil tank and the Waste Chemical/Solvent Feed container to the incinerator. The pumps and conveyance pipe were flushed and drained prior to inspection and are scheduled for demolition and off-site disposal in February 2021.

4.4.2 Rinsate Sampling Deviation

Section 4.1 of the Rinsate Sampling Addendum to the Soil Sampling Work Plan (see Appendix C) indicated that Pad A had two floor drains; one drain to the east and one drain to the west. It was anticipated that rinsate samples would be collected from each drain area and composited in a stainless-steel bowl before being transferred to laboratory-supplied bottle ware.

However, the eastern drain is located at a slightly higher elevation than the western drain; the area of the eastern drain slopes down towards the western drain. When all of Pad A was washed and rinsed, the water in the area of the plugged eastern drain would travel towards the western drain. Due to the slope, no water accumulated at the plugged eastern drain. Therefore, it was not possible to collect a rinsate sample from the eastern drain area. It was only possible to collect rinsate samples from the western floor drain. Rinsate samples were placed directly into laboratory-supplied bottle ware; no intermediate compositing step was necessary.

4.4.3 Soil Sampling Deviations

The soil sampling work plan (see Appendix E) indicated that soil samples will be collected at a depth equal to the bottom depth of the pad (storage pads are 6 inches thick) or sump unless a point of refusal occurs first. The anticipated target sampling depth versus actual sampling depth achieved is provided in Table 4-4. Below is a summary of deviations from work plan target sampling depth.

- Pad-B-W-Ctr: The work plan target depth interval listed in Table 2 of the work plan was 3 to 4 feet. This target depth interval was a typographical error. Since this sample was associated with a storage pad, the field sample was collected from the appropriate interval of 0 to 0.5 feet below ground surface (bgs).
- Pad G: The southern and eastern perimeters of Pad G are the only areas where exposed soil is present for sampling. These areas are covered with an approximately 18-inch layer of riprap. The riprap is underlain with a geotextile filter fabric. With the exception of sample Pad-G-S-SW-0-0.5, no samples were collected in native soil. Samples were collected from accumulated fines associated with the gravel riprap. Sample Pad-G-S-SW-0-0.5, however, was collected from native soil in the 0 to 0.5-foot-bgs depth interval.

4.4.4 Closure Performance Standards – DNREC Approval to use Alternate Criteria

On January 12, 2021, DuPont emailed to DNREC a letter requesting the use of alternative CPS values for both rinsate and soil; 28 alternate CPS values were requested for rinsate, and 15 alternate CPS values were requested for soil. Alternate CPS were requested to better represent the potential risk concerns.

On January 14, 2021, DNREC approved the use of alternate criteria. Both the DuPont request letter and the associated DNREC approval are found in Appendix A.

On February 9, 2021, DNREC approved the use of the cyanide RSL for soil as a surrogate CPS for amenable cyanide in soil. The February 9, 2021 DNREC comment letter can be found in Appendix A.

5.0 Evaluation of Results

5.1 PE Storage Pad Inspection Evaluation

Pad Inspection documentation can be found in the photographic log in Appendix B. Inspections for Pads A through G and Pads 23, 24, 24-0 were performed in accordance with the closure plan (DuPont 2020). At all pads, the concrete and metal surfaces showed evidence of weathering and wear from normal operations. However, when viewed without magnification during the PE Inspection, Pads D through G and Pads 23, 24, 24-0 were determined to be free of all visible contaminated soil and hazardous waste. Therefore, for these pads and metal equipment, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.

Stains of unknown origin were identified at Pads A, B, and C; therefore, a clean debris surface was not achieved. In accordance with the closure plan, rinsate was collected for Pads A, B, and C.

5.2 Storage Pad Rinsate Evaluation

Upon completion of pad cleaning, a rinsate sample was collected from Pads A, B, and C. Each rinsate sample was analyzed for 155 constituents. Rinsate analytical results associated with Pads A, B, and C were compared to the rinsate CPS values discussed in Section 4.0. Analytical results are listed in Tables 4-2 and 4-3. All rinsate analytical results for Pads A and B were below the identified CPS and therefore are not a concern.

The rinsate analytical results associated with Pad C were below CPS except for the following four constituents:

Location ID		CPS_RINSATE (µg/L)	PAD C
Field Sample ID			PAD-C-091020
Date Sampled			09/10/2020
Parameter Name	CPS Criteria		Report Result (µg/L)
2,4,6-Trichlorophenol	Tapwater	4.1	**7.1**
Bis(2-Ethylhexyl)Phthalate	MCL	6	**7.5 J**
Naphthalene	Tapwater	0.17	**0.25 J**
beta-BHC	Tapwater	0.025	**0.058 J**

Waste material stored at Pad C was managed in sealed containers. Pad operating procedures did not include the opening of containers for transfer-of-waste or sampling. A review of storage pad related inspection documents noted that during the past three years of inspections, there have been no spills of waste on any pads, and pad sump non-conforming condition (e.g., surface sheen, oil, floating debris, globules, noticeable odor, or pH <6 or >9 S.U.) has never been observed. The detected Pad C rinsate concentrations were determined to be unrelated to the material stored within Pad C; therefore, they are not a storage pad closure concern. Information supporting this conclusion are presented in the following subsections.

5.2.1 Bis(2-Ethylhexyl)Phthalate and Naphthalene

The low bis(2-ethylhexl)phthalate and naphthalene concentrations only slightly exceed the drinking water CPS values (MCL and Tapwater). The precipitation that collects on Pad C surface, which is covered by a roof, is not used for drinking water and is discharged via the process sewer for treatment at the city publicly owned treatment works (POTW). Additional information regarding Pad C rainwater disposal is discussed further in Section 5.2.3.

Common on Pad C are tire rubber marks associated with the forklift used to move stored material (see pages 8 and 9 in Appendix B). The compounds bis(2-ethylhexyl)phthalate and naphthalene are both plasticizers that are associated with tire rubber. A 2008 environmental study was performed on tire rubber used in turf fields (Lim, 2008). This study analyzed the leaching of constituents from turf field rubber granules placed in deionized water. Bis(2-ethylhexyl)phthalate and Naphthalene concentrations associated with this 2008 study were as follows:

- Bis(2-ethylhexl)phthalate (synonyms = DEHP and Diethylhexyl phthalate; CAS# 117-81-7) concentration = 5.6 µg/L
- Naphthalene concentration = 11 micrograms per liter (µg/L)

The Pad C rinsate concentrations were either similar to, or significantly lower than, the 2008 study values indicating that the forklift tire marks are the likely source of the bis(2-ethylhexyl)phthalate and naphthalene concentrations.

Based on the 2008 study, the conservative storage pad material handling methods, and absence of any spills or non-conforming pad-sump conditions over the past three years, it can be concluded the source of the bis(2-ethylhexyl)phthalate and naphthalene detections in the Pad C rinsate are not due to a release from the material stored on Pad C. The constituents detected are associated with the forklift tire marks present on Pad C.

5.2.2 2,4,6-Trichlorophenol and Beta BHC

Beta BHC and 2,4,6-trichlorophenol are both associated with pesticides. Pesticides have been stored at Pad C. However, the 1-gallon pesticide containers that have arrived at Pad C arrived in fiber drums that were packed with enough absorbent material to absorb all liquid should the container leak. The fiber drum containment and absorbent material, along with the conservative material handling methods and the absence of any spills or non-conforming pad-sump conditions over the past three years, indicate that the Beta BHC and 2,4,6-trichlorophenol detected in Pad C rinsate are not associated with Pad C storage activities.

Both Beta BHC and 2,4,6-trichlorophenol were well studied due to their use as pesticides and are persistent in the environment and can still be detected in environmental media (Reference - Society of Environmental Toxicology and Chemistry https://setac.onlinelibrary.wiley.com/doi/abs/10.1002/etc.4401; Reference - Persistent organic pollutants toolkit http://www.popstoolkit.com/about/chemical/betahch.aspx).

DuPont has noted that, over the years, the area containing Pad C has been sprayed from time to time with approved herbicides for weed control. With its persistence in the environment, DuPont believes the single low detection of Beta BHC and 2,4,6-trichlorophenol (only 2x above the drinking water CPS) is attributable to pesticides

applied overtime to the wooded hillside directly adjacent to Pad C (see page 7 in Appendix B showing the wooded hillside visible on the right side of the first photograph).

Based on the handling of material at Pad C, the absence of any environmental incidence at Pad C, the location of directly adjacent woods, the known application of pesticides in the area, and the known persistence of the detected constituents in the environment, DuPont concludes that the Beta BHC and 2,4,6-trichlorophenol detections at Pad C are present due to historical pesticide application and are not associated with Pad C storage material.

5.2.3 Pad C Rinsate Concentration Discussion

In addition to the information provided in Section 5.2.1 and 5.2.2, the four identified Pad C rinsate constituents were detected at concentrations that are very low and are not a concern for the following reasons:

- The detections were only approximately 2.32x or less above the identified tapwater/MCL criteria.
- EPA Tapwater and MCL criteria used as CPS are both drinking water standards. Limited rainwater collects on the concrete-curbed, roof-enclosed, pad. Rain water that collects on Pad C is NOT used as drinking water; therefore, the use of drinking water criteria as the rinsate CPS is very conservative.
- Any rainwater that accumulates on Pad C, and does not evaporate, collects within the associated sump and, after visual inspection and pH testing to ensure absence of impact, the rainwater is sent via the process sewer to the POTW.

In summary, the constituent concentrations detected in Pad C rinsate are very low, the rainwater associated with Pad C is not a potable source, the limited amount of collected Pad C sump water is inspected prior to discharge via the process sewer to the POTW. Based on the above, it is concluded that the identified Pad C rinsate constituents are not a concern.

5.3 Storage Pad Soil Evaluation

From Pads A, B, G, 23, 24, and 24-0 a total of 23 soil samples were collected; each soil sample was analyzed for 155 constituents. Soil analytical results associated with Pads A, B, G, 23, 24, and 24-0 were compared to the soil CPS values discussed in Section 4.0; analytical results are listed in Tables 4-5 and 4-6. Of the 155 constituents, only four constituents were detected at concentrations above the CPS:

- Amenable cyanide
- Methiocarb
- Benzo(a)Pyrene
- Arsenic

Discussions regarding the above four constituents are presented in the following sections.

5.3.1 Amenable Cyanide

Four of the 23 soil samples collected contained a very low detection of amenable cyanide. The four detections were 0.32 milligrams per kilogram (mg/kg) (estimated),

0.44 mg/kg (estimated), 0.53 mg/kg (estimated), 0.61 mg/kg. These low concentration detections were only slightly above the MDL for amenable cyanide, which ranged from <0.19 to <0.24 mg/kg.

In the DNREC comment letter dated February 9 2021 (Appendix A), DNREC approved the use of the cyanide RSL for soil as a surrogate for amenable cyanide in soil. Surrogate constituents are chemically and toxicologically similar to the constituent of interest. Due to the similarities, the surrogate constituent's risk value can be applied when a risk value is not available for a constituent of interest.

The Industrial Soil RSL for cyanide is identified in the following table.

Original Constituent	CAS#	Surrogate Constituent	CAS#	Surrogate RSL (mg/kg) [(a)]
Amendable Cyanide	NA	Cyanide	57-12-5	150

NA = Not Available
mg/kg = milligrams per kilogram
November 2020 Industrial Soil Regional Screening Levels (RSLs) that are protective of a target cancer risk of 1E-06 and target hazard quotient of 1.

The RSL for cyanide equals 150 mg/kg; all amenable cyanide detections in soil were well below the RSL value; highest amenable cyanide detection = 0.61 mg/kg. Therefore, DuPont concludes that the amenable cyanide detected in soil is not a concern.

5.3.2 Methiocarb and Benzo(a)Pyrene

Methiocarb and benzo(a)pyrene were detected at low concentrations in a single soil sample; soil sample Pad-B-Sump collected from 1.5 to 2.0 feet bgs. As noted in the closure plan, waste material stored at the pads was managed in sealed containers. Pad operating procedures did not include the opening of containers for transfer-of-waste or sampling. A review of storage pad related inspection documents noted that during the past three years of inspections, there have been no spills of waste on any pads, and a pad sump non-conforming condition has never been observed. The conservative handling practices and the absence of documented releases suggests that the low detections of methiocarb and benzo(a)pyrene are not related to pad activities. The single low detections could be related to nearby automotive traffic, historic fill material, or pesticides applied in the area.

Based on a review of the soil data and the knowledge of the conservative material handling practices associated with the pads, DuPont believes the low single methiocarb and BAP detections are not a concern for the following reasons:

- The methiocarb detection of 0.066 mg/kg is within the range of observed MDLs.
  - The method detection limit values for methiocarb ranged from 0.053 mg/kg to 0.067 mg/kg.
  - Methiocarb CPS is the MDL.
  - As noted above, use of the MDL as a CPS is very conservative; MDL values are not risk based.
  - The detected 0.066 mg/kg is within the MDL-CPS range.
  - Because the methiocarb detection falls within the MDL-CPS range, it can be concluded that the methiocarb detection meets criteria and is not a concern.

- The BAP detection is a very low concentration that is not a risk concern.
  - BAP was detected only slightly above the soil RSL of 2.1 mg/kg; the detected BAP concentration = 4.6 mg/kg.
  - Seventeen soil samples were collected in the incinerator area that contains Pad B; except for sample Pad-B-Sump, all soil samples collected from pads within the incinerator area were below the BAP CPS indicating very limited distribution. Additionally, the BAP soil sample results that were below the BAP CPS were well below CPS with a concentration less than 1 mg/kg.
  - Shallow soil samples located directly above (Pad-B-W-CTR 0-0.5ft), and approximately 15 feet to the north and south (Pad-B-NW 0-0.5ft and Pad-B-SW 0-0.5ft) of sample Pad-B-Sump were below the BAP criteria indicating that, along with nearby buildings and roads, the BAP detected at Pad-B-Sump is capped and would be difficult to access.
  - Based on the low BAP concentration that is only about 2x above the criteria, the limited distribution based on 17 incinerator area storage pad soil samples, and the fact that the single detection is capped with either clean soils or impermeable material, it can be concluded that the single BAP soil detection of interest is not a risk and therefore not a concern.

5.3.3 Arsenic

Of the 23 soil samples collected, six soil samples contained arsenic at a concentration above the CPS of 11 mg/kg. Arsenic concentrations associated with these six samples ranged from 13 mg/kg to 41 mg/kg (see Table 4-6). These six soil samples were located directly adjacent to Pads 23, 24, and 24-0; soil samples associated with nearby Pads A and B, as well as Pad G did not contain arsenic above the CPS criteria.

Based on a review of soil lithology, pad construction dates, and distribution of arsenic exceedances in soil, it can be concluded that the fill material is the source of the arsenic detected in soil samples from Pads 23, 24, and 24-0. Evidence to support this conclusion follows:

- Arsenic has been previously identified in nearby fill material:
  - Pads 23, 24, and 24-0 are located directly adjacent to the facility incinerator (see Figure 2-1); the area containing the incinerator was investigated as part of the 1990 RCRA Facility Investigation (RFI). One of the conclusions associated with the 1990 RFI was that some area fill material contained contaminants such as arsenic; the highest arsenic soil concentration associated with the 1990 RFI = 18.4 mg/kg.
  - Although above the current CPS of 11 mg/kg, the 1990 arsenic detections were not identified in the RFI as a constituent of interest based on the applicable 1990 regulatory values. EPA concluded the area met risk-based clean closure standards based on industrial site use and that a deed restriction is in place in the area. The deed restriction will ultimately be transitioned to an environmental covenant.

- The fill material associated with Pads 23, 24, and 24-0, which contained arsenic above CPS, is different from the fill material used at nearby Pads A and B, which did not contain arsenic above CPS:
  - A comparison of the soil lithology associated with Pads 23, 24, and 24-0, versus the soil lithology associated with nearby Pads A and B indicates that different fill material was used in the two areas. In general, the soil lithology in the area of Pads 23, 24, 24-0 = Silt **with** pebbles and **gravel**; the soil lithology in the area of nearby Pads A and B = Silt, **trace** pebbles, or Silt and Sand, **trace** pebbles (see Appendix F for 2020 storage pad soil sampling lithologic description). The fill material in the area of Pads 23, 24, 24-0 is much coarser which indicates that a different fill material source was used. This conclusion is supported by the dates of pad installation. Discussions with site personnel indicate that Pads 23, 24, and 24-0 were likely constructed around the 1960s; Pads A and B were constructed in the early 1980s.
  - The distribution of the arsenic exceedance in soil does not show a pattern that would support the conclusion of a storage pad release.
  - The locations where arsenic concentrations exceeded the CPS can be found in Figure 5-1. Had Pad 23, or 24, or 24-0 experienced a release of arsenic-related material, the arsenic distribution exceedances would be limited to the area near that release. However, almost all the soil samples associated with Pads 23, 24, and 24-0 exceed the arsenic criteria. This consistent distribution covering multiple pads suggests that the arsenic exceedances in soil are not due to a release. This distribution, along with the fact that all soil samples that exceed for arsenic have a similar lithology, strongly suggests that the source of the arsenic exceedance is the fill material used during the construction of Pads 23, 24, and 24-0 and not due to storage pad activities.

Based on the above, it can be concluded that the arsenic exceedances detected in storage pad soils are due to the fill material used during pad construction and are not associated with storage pad activities. Therefore, it can be also be concluded that Pads 23, 24, and 24-0 are not an arsenic concern.

5.4 Risk Assessment Information System (RAIS) Risk Calculator

In a DNREC comment letter dated February 9, 2021, DNREC required DuPont to determine the human health risk associated with the soil and rinsate constituents that exceeded CPS. DNREC recommended using the U.S. Department of Energy (DOE) Risk Assessment Information System (RAIS) online risk calculator (https://rais.ornl.gov/) to estimate potential carcinogenic and noncarcinogenic risks for the outdoor pad worker (DNREC, 2020 and DOE, 2021). For the cumulative soil evaluations, the EPA outdoor worker scenario in RAIS was selected but was modified with some site-specific exposure parameters that are described below. For the rinsate evaluation, the EPA indoor worker scenario in RAIS was selected, which assumes drinking water (tap water) exposure; the indoor worker exposure parameters were replaced with outdoor worker exposure parameters to account for outdoor activities such as incidental ingestion and dermal contact with rinsate water during pad cleaning and sump drain purging. The DNREC comment letter is located in Appendix A.

RAIS was used due to its wide availability, ease of use, conformity (in general) to the EPA Risk Assessment Guidance for Superfund (RAGS), and the DNREC-Remediation

Section (DNREC-RS) Human Health Risk Assessment (HHRA) Guidance (EPA, 1989 and DNREC, 2020).

EPA (2014) default RAIS outdoor worker exposure parameters were used to estimate the cancer risk and non-cancer hazards for the outdoor pad worker, with the following exceptions:

- Outdoor Pad Worker Exposed to Soil at Pad B: The worker visits pad area for 2 hours each day to clean and/or add items to the storage area; the exposure time (ET) was changed from the worker default value of 8 hours per day to 2 hours per day.
- Outdoor Pad Worker Exposed to Soil at Pads 23, 24, and 24-0: The worker visits the pad area once a week, which equals an exposure frequency (EF) of 50 days per year (assumes 2 weeks of vacation per year), to perform general maintenance or security checks. The ET to conduct these checks is assumed to be 1 hour per day.
- Outdoor Pad Worker Exposed to Rinsate Water at Pad C: The worker checks the water in the sumps every other week to clear out the water; an EF of 25 days per year is assumed. This activity takes 1 hour per day (ET and dermal-event ET parameters). The rinsate water at the pads are not being used as a drinking water source; therefore, an incidental water ingestion rate of 0.0985 liters per day was derived (EPA, 2019). While cleaning out the sump, it is assumed that the worker may get his/her head, forearms, hands, lower legs, and feet wet; a skin surface area of 7,325 square centimeters was derived (EPA, 2011). The calculations for the incidental ingestion rate and skin surface area are provided in Appendix H.

The RAIS risk calculations are provided in Attachment H. Table 4-7 summarizes the cancer risk and non-cancer hazard results for the outdoor pad workers in the exposure areas described above. Toxicity values were not readily available for methiocarb in RAIS and other EPA resources (e.g., Provisional Peer-Reviewed Toxicity Values and the Human Health Benchmarks for Pesticides database),so the cancer risk and/or non-cancer hazard results may be biased low because RAIS was only able to produce quantitative results for one of the two soil constituents for the soil evaluation at Pad B. However, Section 5.3.2 notes that Methiocarb was only detected at a single soil location at a low concentration that was within the methiocarb MDL-CPS range.

In accordance with 40 Code of Federal Regulations (CFR) 300.430, carcinogenic risk within the EPA risk range of 1E-06 to 1E-04 may be considered acceptable. Risk levels that are less than one excess cancer in one million people (1×10^{-6}) are generally considered minimal while cancer risks greater than one excess cancer in ten thousand people (1×10^{-4}) generally are considered significant (i.e., a cumulative excess lifetime cancer risk, ELCR, level of 1×10^{-4} is typically used as the remediation “trigger” for a site; EPA, 1991). For this risk evaluation, a target cumulative cancer risk level of 1×10^{-5} (1E-05) and a target non-carcinogenic hazard index (HI) of 1 were used in accordance with DNREC-RS HHRA guidance (DNREC, 2020).

As shown in Table 4-7, the cumulative ELCR and HI results for the outdoor pad worker are all below the DNREC-RS target ELCR level of 1×10^{-5} (1E-05) and a target non-carcinogenic HI of 1. The risk results did not identify any chemicals that required further evaluation; adverse health effects from exposure to soil and rinsate water are not likely for the outdoor pad worker.

6.0 Summary

Based on the evaluation of results presented in Sections 4.0 and 5.0, the following summarizes the certification of closure by pad.

- Pad A: Certification for Closure has been met:
  - Rinsate samples results were below CPS.
  - Soil samples results were below CPS.
- Pad B: Certification for Closure has been met:
  - Rinsate samples results were below CPS.
  - Soil samples results largely met the CPS criteria with the exception of a single low concentration detection of two compounds that are not a concern.
  - RAIS calculations determined that soil constituents were below the DNREC cancer risk and non-cancer hazard thresholds for the outdoor pad workers and therefore were not a concern.
- Pad C: Certification for Closure has been met:
  - Rinsate samples results largely met the CPS criteria with the exception of four constituents that were determined to be unrelated to stored material and were at concentrations that are not a concern.
  - RAIS calculations determined that rinsate constituents were below the DNREC cumulative cancer risk and non-cancer hazard thresholds for the outdoor pad workers and therefore were not a concern.
  - Soil samples were not collected through asphalt or concrete in order to maintain the impermeable integrity of the asphalt/concrete areas.
- Pad D: Certification for Closure has been met:
  - Visual inspection determined a clean debris surface standard was met for metal and concrete.
  - Soil samples were not required.
- Pad E: Certification for Closure has been met:
  - Visual inspection determined a clean debris surface standard was met for metal and concrete.
  - Soil samples were not required.
- Pad F: Certification for Closure has been met:
  - Visual inspection determined a clean debris surface standard was met for metal and concrete.
  - Soil samples were not required.
- Pad G: Certification for Closure has been met:
  - Visual inspection determined a clean debris surface standard was met for concrete.
  - Soil samples results were below CPS.

- Pad 23: Certification for Closure has been met:
  - Visual inspection determined a clean debris surface standard was met for concrete.
  - The waste chemical/solvent piping will be removed during final closure of the incinerator.
  - Soil samples results are not a concern, arsenic detected is related to historic fill material used, and RAIS calculations were below the DNREC cancer risk and non-cancer hazard threshold for the outdoor pad workers.
- Pad 24: Certification for Closure has been met:
  - Visual inspection determined a clean debris surface standard was met for metal and concrete.
  - The conveyor roller system was removed for off-site disposal on October 27, 2020.
  - Soil sample results are not a concern, arsenic detected is related to historic fill material used, and RAIS calculations were below the DNREC cancer risk and non-cancer hazard thresholds for the outdoor pad workers.
- Pad 24-0: Certification for Closure has been met:
  - Visual inspection determined a clean debris surface standard was met for metal and concrete.
  - The conveyor roller system was removed for off-site disposal on November 11, 2020.
  - Soil samples results are not a concern, arsenic detected is related to historic fill material used, and RAIS calculations were below the DNREC cancer risk and non-cancer hazard thresholds for the outdoor pad workers.

7.0 Certification of Closure

In accordance with DRGHW Section 264.115, the underlying individuals certify the hazardous waste storage pads A, B, C, D, E, F, G, 23, 24, and 24-0 were closed in accordance with the approved closure plan (modified 7/12/2020), the approved alternate closure performance standards request (dated 1/12/2021)and the results / conclusions presented in this closure report.

Owner/Operator

Mary Glowacki — 2/24/2021
DuPont - Environmental Compliance Manager — Date
Experimental Station

Registered Professional Engineer

Joseph M. McCarthy, PE — 2/24/2021
AECOM — Date
Delaware Professional Engineer Registration Number 22587

8.0 References

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Tables

Table 4-1
Laboratory Analyte List and Closure Performance Standards for Soil and Rinsate
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Volatiles|SW-846 8260B			
Acetone	67-64-1	670000	14000.00
Acrylonitrile	107-13-1	1.1	0.052
Benzene	71-43-2	5.1	5
Bromoform	75-25-2	86	80
Bromomethane	74-83-9	30	7.5
Butanone, 2-	78-93-3	190000	5600
Carbon Disulfide	75-15-0	3500	810
Carbon Tetrachloride	56-23-5	2.9	5
Chlorobenzene	108-90-7	1300	100
Chloroethane	75-00-3	57000	21000
Chloroform	67-66-3	1.4	80
Chloromethane	74-87-3	460	190
Cyclohexanone	108-94-1	130000	1400
Dibromo-3-chloropropane, 1,2-	96-12-8	0.06	0.2
Dibromoethane, 1,2-	106-93-4	0.16	0.05
Dibromomethane	74-95-3	99	8.3
Dichlorodifluoromethane	75-71-8	370	200
Dichloroethane, 1,1-	75-34-3	16	2.8
Dichloroethane, 1,2-	107-06-2	2	5
Dichloroethene, 1,1-	75-35-4	1000	7
Dichloroethene, trans-1,2-	156-60-5	23000	100
Dichloropropane, 1,2-	78-87-5	11	5
Dichloropropene, cis-1,3-	10061-01-5	MDL	MDL
Dichloropropene, trans-1,3-	10061-02-6	MDL	MDL
Dioxane, 1,4-	123-91-1	24	0.46
Ethyl Acetate	141-78-6	2600	140
Ethyl Ether	60-29-7	230000	3900
Ethyl Methacrylate	97-63-2	7600	630
Ethylbenzene	100-41-4	25	700
Freon 113	76-13-1	28000	10000

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DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Methacrylonitrile	126-98-7	100	1.9
Methyl Iodide	74-88-4	MDL	MDL
Methyl Methacrylate	80-62-6	19000	1400
Methyl-2-pentanone, 4-	108-10-1	140000	6300
Methylene Chloride	75-09-2	1000	5
Pentachloroethane	76-01-7	36	0.65
Tetrachloroethane, 1,1,1,2-	630-20-6	8.8	0.57
Tetrachloroethane, 1,1,2,2-	79-34-5	2.7	0.076
Tetrachloroethene	127-18-4	100	5
Toluene	108-88-3	47000	1000
Trichloroethane, 1,1,1-	71-55-6	36000	200
Trichloroethane, 1,1,2-	79-00-5	5	5
Trichloroethene	79-01-6	6	5
Trichlorofluoromethane	75-69-4	350000	5200
Vinyl Chloride	75-01-4	1.7	2
Xylene (Total)	1330-20-7	2500	10000
Semi-Volatiles SW-846 B 8270C			
Acetophenone	98-86-2	120,000.00	1,900.00
Acetylaminofluorene, 2-	53-96-3	0.6	0.016
Aniline	62-53-3	400	13
Anthracene	120-12-7	230000	1800
Benzo(a)anthracene	56-55-3	21	0.03
Benzo(a)pyrene	50-32-8	2.1	0.2
bis(2-Chloroethoxy)methane	111-91-1	2500	59
bis(2-Chloroethyl)ether	111-44-4	1	0.014
bis(2-Chloroisopropyl)ether	39638-32-9	MDL	MDL
bis(2-Ethylhexyl)phthalate	117-81-7	160	6
Bromophenyl-phenylether, 4-	101-55-3	MDL	MDL
Butylbenzylphthalate	85-68-7	1200	16
Chloro-3-methylphenol, 4-	59-50-7	82000	1400
Chloroaniline, 4-	106-47-8	11	0.37

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Laboratory Analyte List and Closure Performance Standards for Soil and Rinsate
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Chloronaphthalene, 2-	91-58-7	60000	750
Chlorophenol, 2-	95-57-8	5800	91
Chrysene	218-01-9	2100	25
Dibenz(a,h)anthracene	53-70-3	2.1	0.025
Dichlorobenzene, 1,2-	95-50-1	9300	600
Dichlorobenzene, 1,3-	541-73-1	MDL	MDL
Dichlorobenzene, 1,4-	106-46-7	11	75
Dichlorophenol, 2,4-	120-83-2	2500	46
Dichlorophenol, 2,6-	87-65-0	MDL	MDL
Diethylphthalate	84-66-2	660000	15000
Dimethylphenol, 2,4-	105-67-9	16000	360
Dimethylphthalate	131-11-3	660000*	MDL
Di-n-butylphthalate	84-74-2	82000	900
Dinitrophenol, 2,4-	51-28-5	1600	39
Dinitrotoluene, 2,4-	121-14-2	7.4	0.24
Dinitrotoluene, 2,6	606-20-2	1.5	0.049
Di-n-octylphthalate	117-84-0	8200	200
Fluoranthene	206-44-0	30000	800
Hexachlorobenzene	118-74-1	0.96	1
Hexachlorobutadiene	87-68-3	5.3	0.14
Hexachlorocyclopentadiene	77-47-4	7.5	50
Hexachloroethane	67-72-1	8	0.33
Hexachloropropene	1888-71-7	MDL	MDL
Indeno(1,2,3-cd)pyrene	193-39-5	21	0.25
Isosafrole	120-58-1	MDL	MDL
Methapyrilene	91-80-5	MDL	MDL
Methylcholanthrene, 3-	56-49-5	0.1	0.0011
Methylenebis(2-chloroanil, 4,4'-	101-14-4	23	0.16
Methylphenol, 2-	95-48-7	41000	930
Methylphenol, 4-	106-44-5	82000	1900
Naphthalene	91-20-3	17	0.17

Table 4-1
Laboratory Analyte List and Closure Performance Standards for Soil and Rinsate
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Nitroaniline, 4-	100-01-6	110	3.8
Nitrobenzene	98-95-3	22	0.14
Nitro-o-toluidine, 5-	99-55-8	260	8.2
Nitrophenol, 4-	100-02-7	MDL	MDL
N-Nitrosodiethylamine	55-18-5	0.015	0.00017
N-Nitrosodi-n-butylamine	924-16-3	0.46	0.0027
N-Nitroso-di-n-propylamine	621-64-7	0.33	0.011
N-Nitrosopiperidine	100-75-4	0.24	0.0082
N-Nitrosopyrrolidine	930-55-2	1.1	0.037
Pentachlorobenzene	608-93-5	930	3.2
Pentachloronitrobenzene	82-68-8	13	0.12
Pentachlorophenol	87-86-5	4	1
Phenacetin	62-44-2	1000	34
Phenanthrene	85-01-8	230000*	MDL
Phenol	108-95-2	250000	5800
Pronamide	23950-58-5	62000	1200
Pyrene	129-00-0	23000	120
Pyridine	110-86-1	1200	20
Safrole	94-59-7	10	0.096
Tetrachlorobenzene, 1,2,4,5-	95-94-3	350	1.7
Trichlorobenzene, 1,2,4-	120-82-1	110	70
Trichlorophenol, 2,4,5-	95-95-4	82000	1200
Trichlorophenol, 2,4,6-	88-06-2	210	4.1
Miscellaneous|SW-846 8015B			
n-Butyl Alcohol	71-36-3	120,000.00	2,000.00
Isobutanol	78-83-1	350000	5900
Methanol	67-56-1	1200000	20000

Table 4-1
Laboratory Analyte List and Closure Performance Standards for Soil and Rinsate
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Carbamates|SW-846 8318			
Carbaryl	63-25-2	82,000.00	1,800.00
Carbofuran	1563-66-2	4,100.00	40.00
Methiocarb	2032-65-7	MDL	MDL
Methomyl	16752-77-5	21000	500
Oxamyl	23135-22-0	21000	200
Herbicides|SW-846 8151A			
2,4-D	94-75-7	9600	70
2,4,5-TP	93-72-1	6600	50
Pesticides/PCBs|SW-846 8081A			
Alpha BHC	319-84-6	0.36	0.0072
Alpha Chlordane	5103-71-9	7.7*	MDL
Beta BHC	319-85-7	1.3	0.025
Chlordane	57-74-9	7.7*	MDL
Delta BHC	319-86-8	1.3*	MDL
Endosulfan I	959-98-8	7000^	100^
Endosulfan II	33213-65-9	7000^	MDL
Endosulfan Sulfate	1031-07-8	4900	110
Endrin	72-20-8	250	2
Gamma BHC - Lindane	58-89-9	2.5	0.2
Gamma Chlordane	5103-74-2	7.7*	MDL
Heptachlor	76-44-8	0.63	0.4
Heptachlor Epoxide	1024-57-3	0.33	0.2
Methoxychlor	72-43-5	4100	40
Methoxychlor	72-43-5	4100	40
o,p-DDD	53-19-0	MDL	MDL
o,p-DDE	3424-82-6	MDL	MDL
o,p-DDT	789-02-6	MDL	MDL
p,p-DDD	72-54-8	9.6	0.032
p,p-DDE	72-55-9	9.3	0.046
p,p-DDT	50-29-3	8.5	0.23
Toxaphene	8001-35-2	2.1	3

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Laboratory Analyte List and Closure Performance Standards for Soil and Rinsate
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Metals | SW-846 6010B			
Arsenic	7440-38-2	11**	10
Barium	7440-39-3	220,000.00	2,000.00
Cadmium	7440-43-9	980	5
Calcium	7440-70-2	2500000***	250000***
Chromium	7440-47-3	214*	100
Lead	7439-92-1	800	15
Nickel	7440-02-0	22000	390
Selenium	7782-49-2	5800	50
Silver	7440-22-4	5800	94
Metals|SW-846 7470A			
Mercury	7439-97-6	46	2
Wet Chemistry|SW-846 9012A			
Amenable Cyanide	n.a.	150^^	200*
Total Cyanide	57-12-5	150	200
Wet Chemistry|SM 2540 G-1997/2011			
Moisture	n.a.	MDL	MDL

1 - CPS = EPA Industrial Risk Screening Level (RSL). Where RSL values are not available the Method Detection Limit (MDL) will be used.

2 - CPS = In absense of an MCL, the EPA Regional Screening Level (TR=1E-06, HQ=1) for tap water. In absense of both, the method detection limit will be used.

* Surrogate RSL applied per the request from DuPont to DNREC dated January 12, 2021; request approved by DNREC on January 14, 2021.

** Delaware HSCA values applied per the request from DuPont to DNREC dated January 12, 2021; request approved by DNREC on January 14, 2021.

*** Recommended Daily Allowance (RDA) value applied per the request from DuPont to DNREC dated January 12, 2021; request approved by DNREC on January 14, 2021.

^ DNREC approved surrogate = Endosulfan RSL. Endosulfan RSL to be compared to sum of Endosulfan I + Endosulfan II

^^ DNREC approved surrogate = Cyanide RSL soil. Amenable Cyanide in soil to be compared to Cyanide RSL for soil per DNREC comment letter dated 2-9-2021.

Table 4-2
Rinsate Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					EB	PAD A	PAD B	PAD B	PAD C	TB
Field Sample ID					EQUIPMENT_BLANK-091020	PAD-A-091020	PAD-B-091020-D	PAD-B-091020	PAD-C-091020	TRIP_BLANK-091020
Date Sampled					09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020
Sample Purpose					EB	FS	DUP	FS	FS	TB
Start Depth - End Depth										
Parameter Name	Analytical Method	Filtered	Report Units	CPS_RINSATE	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	8260C	N	UG/L	0.57 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	8260C	N	UG/L	200 UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,1,2,2-Tetrachloroethane	8260C	N	UG/L	0.076[(2)] UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	8260C	N	UG/L	5 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichlorotrifluoroethane	8260C	N	UG/L	10000 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	8260C	N	UG/L	2.8 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethene	8260C	N	UG/L	7 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromo-3-Chloropropane	8260C	N	UG/L	0.2[(2)] UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-Dibromoethane (EDB)	8260C	N	UG/L	0.05[(2)] UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	8270D	N	UG/L	600 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
1,2-Dichloroethane	8260C	N	UG/L	5 UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-Dichloropropane	8260C	N	UG/L	5 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,3-Dichlorobenzene	8270D	N	UG/L	MDL	<0.51	<0.50	<0.51	<0.51	<0.51	
1,4-Dichlorobenzene	8270D	N	UG/L	75 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
Acetone	8260C	N	UG/L	14000 UG/L	<0.70	**3.5 J**	**4.1 J**	**4.7 J**	**7.3 J**	<0.70
Acrylonitrile	8260C	N	UG/L	0.052[(2)] UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzene	8260C	N	UG/L	5 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	8260C	N	UG/L	80 UG/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	8260C	N	UG/L	810 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	8260C	N	UG/L	5 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	8260C	N	UG/L	100 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	8260C	N	UG/L	80 UG/L	<0.20	**19**	**15**	**15**	**25**	<0.20
cis-1,3-Dichloropropene	8260C	N	UG/L	MDL	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorodifluoromethane	8260C	N	UG/L	200 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Diethyl Ether	8260C	N	UG/L	3900 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethyl Acetate	8260C	N	UG/L	140 UG/L	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70
Ethyl Chloride	8260C	N	UG/L	21000 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethyl Methacrylate	8260C	N	UG/L	630 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	8260C	N	UG/L	700 UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Iodomethane	8260C	N	UG/L	MDL	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Isobutyl Alcohol	8015B	N	UG/L	5900 UG/L	<150	<150	<150	<150	<150	
Methacrylonitrile	8260C	N	UG/L	1.9[(2)] UG/L	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Methanol	8015B	N	UG/L	20000 UG/L	<220	<220	<220	<220	<220	
Methyl Bromide	8260C	N	UG/L	7.5 UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Chloride	8260C	N	UG/L	190 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Ethyl Ketone	8260C	N	UG/L	5600 UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Isobutyl Ketone	8260C	N	UG/L	6300 UG/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Methacrylate	8260C	N	UG/L	1400 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Bromide	8260C	N	UG/L	8.3 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	8260C	N	UG/L	5 UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
N-Butanol	8015B	N	UG/L	2000 UG/L	<140	<140	<140	<140	<140	
Pentachloroethane	8260C	N	UG/L	0.65 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethene	8260C	N	UG/L	5 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	8260C	N	UG/L	1000 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,2-Dichloroethene	8260C	N	UG/L	100 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
trans-1,3-Dichloropropene	8260C	N	UG/L	MDL	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	8260C	N	UG/L	5 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	8260C	N	UG/L	5200 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Table 4-2
Rinsate Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					EB	PAD A	PAD B	PAD B	PAD C	TB
Field Sample ID					EQUIPMENT_BLANK-091020	PAD-A-091020	PAD-B-091020-D	PAD-B-091020	PAD-C-091020	TRIP_BLANK-091020
Date Sampled					09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020
Sample Purpose					EB	FS	DUP	FS	FS	TB
Start Depth - End Depth										
Parameter Name	Analytical Method	Filtered	Report Units	CPS_RINSATE	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Vinyl Chloride	8260C	N	UG/L	2 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes	8260C	N	UG/L	10000 UG/L	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
1,2,4,5-Tetrachlorobenzene	8270D	N	UG/L	1.7 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
1,2,4-Trichlorobenzene	8260C	N	UG/L	70 UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2,4-Trichlorobenzene	8270D	N	UG/L	70 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
1,4-Dioxane	8260C	N	UG/L	0.46[(2)] UG/L	<29	<29	<29	<29	<29	<29
2,4,5-Trichlorophenol	8270D	N	UG/L	1200 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
2,4,6-Trichlorophenol	8270D	N	UG/L	4.1 UG/L	<0.51	<0.50	<0.51	<0.51	**7.1**	
2,4-Dichlorophenol	8270D	N	UG/L	46 UG/L	<0.51	<0.50	<0.51	<0.51	**1.4 J**	
2,4-Dimethylphenol	8270D	N	UG/L	360 UG/L	<3.0	<3.0	<3.0	<3.0	<3.0	
2,4-Dinitrophenol	8270D	N	UG/L	39 UG/L	<14	<14	<14	<14	<14	
2,4-Dinitrotoluene	8270D	N	UG/L	0.24[(2)] UG/L	<1.0	<1.0	<1.0	<1.0	<1.0	
2,6-Dichlorophenol	8270D	N	UG/L	MDL	<0.51	<0.50	<0.51	<0.51	<0.51	
2,6-Dinitrotoluene	8270D	N	UG/L	0.049[(2)] UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
2-Acetylaminofluorene	8270D	N	UG/L	0.016[(2)] UG/L	<10	<10	<10	<10	<10	
2-Chloronaphthalene	8270D	N	UG/L	750 UG/L	<0.40	<0.40	<0.40	<0.40	<0.40	
2-Chlorophenol	8270D	N	UG/L	91 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
2-Methylphenol (O-Cresol)	8270D	N	UG/L	930 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
3-Methylcholanthrene	8270D	N	UG/L	0.0011[(2)] UG/L	<4.0	<4.0	<4.0	<4.0	<4.0	
4,4'-Methylenebis-(2-Chlorobenzenamine)	8270D	N	UG/L	0.16[(2)] UG/L	<72	<72	<72	<72	<72	
4-Bromophenyl Phenyl Ether	8270D	N	UG/L	MDL	<0.51	<0.50	<0.51	<0.51	<0.51	
4-Chloro-3-Methylphenol	8270D	N	UG/L	1400 UG/L	<1.6	<1.6	<1.6	<1.6	<1.6	
4-Chloroaniline	8270D	N	UG/L	0.37[(2)] UG/L	<4.0	<4.0	<4.0	<4.0	<4.0	
4-Methylphenol (P-Cresol)	8270D	N	UG/L	1900 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
4-Nitroaniline	8270D	N	UG/L	3.8 UG/L	<0.91	<0.91	<0.91	<0.91 R	<0.91	
4-Nitrophenol	8270D	N	UG/L	MDL	<10	<10	<10	<10	<10	
5-Nitro-Ortho-Toluidine	8270D	N	UG/L	8.2 UG/L	<4.0	<4.0	<4.0	<4.0	<4.0	
Acetophenone	8270D	N	UG/L	1900 UG/L	<4.0	<4.0	<4.0	<4.0	<4.0	
Aniline	8270D	N	UG/L	13 UG/L	<3.0 UJ	<3.0 UJ	<3.0 UJ	<3.0 UJ	<3.0	
Anthracene	8270D	N	UG/L	1800 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Benzo(A)Anthracene	8270D	N	UG/L	0.03[(2)] UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Benzo[A]Pyrene	8270D	N	UG/L	0.2 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Bis(2-Chloro-1-Methylethyl) Ether[(1)]	8270D	N	UG/L	MDL	<0.51	<0.50	<0.51	<0.51	<0.51	
Bis(2-Chloroethoxy)Methane	8270D	N	UG/L	59 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
Bis(2-Chloroethyl)Ether	8270D	N	UG/L	0.014[(2)] UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
Bis(2-Ethylhexyl)Phthalate	8270D	N	UG/L	6 UG/L	<5.1	<5.0	<5.1	<5.1	**7.5 J**	
Butyl Benzyl Phthalate	8270D	N	UG/L	16 UG/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Chrysene	8270D	N	UG/L	25 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Dibenz(A,H)Anthracene	8270D	N	UG/L	0.025[(2)] UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Diethyl Phthalate	8270D	N	UG/L	15000 UG/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Dimethyl Phthalate	8270D	N	UG/L	MDL	<2.0	<2.0	<2.0	<2.0 R	<2.0	
Di-N-Butyl Phthalate	8270D	N	UG/L	900 UG/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Fluoranthene	8270D	N	UG/L	800 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Hexachlorobenzene	8270D	N	UG/L	1 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Hexachlorobutadiene	8270D	N	UG/L	0.14[(2)] UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
Hexachlorocyclopentadiene	8270D	N	UG/L	50 UG/L	<5.1	<5.0	<5.1	<5.1	<5.1	
Hexachloroethane	8270D	N	UG/L	0.33[(2)] UG/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Hexachloropropylene	8270D	N	UG/L	MDL	<2.0	<2.0	<2.0	<2.0	<2.0	

Table 4-2
Rinsate Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					EB	PAD A	PAD B	PAD B	PAD C	TB
Field Sample ID					EQUIPMENT_BLANK-091020	PAD-A-091020	PAD-B-091020-D	PAD-B-091020	PAD-C-091020	TRIP_BLANK-091020
Date Sampled					09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020
Sample Purpose					EB	FS	DUP	FS	FS	TB
Start Depth - End Depth										
Parameter Name	Analytical Method	Filtered	Report Units	CPS_RINSATE	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Indeno (1,2,3-CD) Pyrene	8270D	N	UG/L	0.25 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Isosafrole	8270D	N	UG/L	MDL	<4.0	<4.0	<4.0	<4.0	<4.0	
Xylenes	8270D	N	UG/L	MDL	<15	<15	<15	<15 UJ	<15 UJ	
Naphthalene	8270D	N	UG/L	0.17 UG/L	<0.10	<0.10	<0.10	<0.10	**0.25 J**	
N-Dioctyl Phthalate	8270D	N	UG/L	200 UG/L	<5.1	<5.0	<5.1	<5.1	<5.1	
Nitrobenzene	8270D	N	UG/L	0.14[(2)] UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
N-Nitrosodiethylamine	8270D	N	UG/L	0.00017[(2)] UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
N-Nitroso-Di-N-Butylamine	8270D	N	UG/L	0.0027[(2)] UG/L	<12	<12	<12	<12	<12	
N-Nitrosodi-N-Propylamine	8270D	N	UG/L	0.011[(2)] UG/L	<0.71	<0.71	<0.71	<0.71	<0.71	
N-Nitrosopiperidine	8270D	N	UG/L	0.0082[(2)] UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
N-Nitrosopyrrolidine	8270D	N	UG/L	0.037[(2)] UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
Pentachlorobenzene	8270D	N	UG/L	3.2 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
Pentachloronitrobenzene	8270D	N	UG/L	0.12[(2)] UG/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Pentachlorophenol	8270D	N	UG/L	1 UG/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Phenacetin	8270D	N	UG/L	34 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
Phenanthrene	8270D	N	UG/L	MDL	<0.10	<0.10	<0.10	<0.10	<0.10	
Phenol	8270D	N	UG/L	5800 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51	
Pyrene	8270D	N	UG/L	120 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Pyridine	8270D	N	UG/L	20 UG/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Safrole	8270D	N	UG/L	0.096[(2)] UG/L	<2.0	<2.0	<2.0	<2.0	<2.0	
4,4'-DDD	8081B	N	UG/L	0.032 UG/L	<0.0052	<0.0050	<0.0050	<0.0051	<0.025	
4,4'-DDE	8081B	N	UG/L	0.046 UG/L	<0.0052	<0.0050	<0.0050	<0.0051	<0.025	
4,4'-DDT	8081B	N	UG/L	0.23 UG/L	<0.0054	**0.0069 J**	<0.0052	<0.0053	**0.17**	
Alpha Chlordane	8081B	N	UG/L	MDL	<0.0031	<0.0030	<0.0030	<0.0031 UJ	<0.015	
Alpha-BHC	8081B	N	UG/L	0.0072 UG/L	<0.0031	<0.0030	<0.0030	<0.0031	<0.015	
beta-BHC	8081B	N	UG/L	0.025 UG/L	<0.0035	**0.0041 J**	<0.0034	<0.0035	**0.058 J**	
Carbaryl	531.1	N	UG/L	1800 UG/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Carbofuran	531.1	N	UG/L	40 UG/L	<0.80	<0.80	<0.80	<0.80	<0.80	
Chlordane	8081B	N	UG/L	MDL	<0.17	<0.16	<0.16	<0.16	<0.81	
delta-BHC	8081B	N	UG/L	MDL	<0.0035	<0.0034	<0.0034	<0.0035	<0.017	
Endosulfan I	8081B	N	UG/L	100* UG/L	<0.0045	<0.0043	<0.0043	<0.0044	**0.052 J**	
Endosulfan II	8081B	N	UG/L	100* UG/L	<0.016	<0.015	<0.015	<0.015	<0.076	
Sum Endosulfan I and II	8081B	N	UG/L	100* UG/L	<0.0205	<0.0193	<0.0193	<0.0194	**0.052 J**	
Endosulfan Sulfate	8081B	N	UG/L	110 UG/L	<0.0060	<0.0058	<0.0058	<0.0059	<0.029	
Endrin	8081B	N	UG/L	2 UG/L	<0.0084	<0.0081	<0.0081	<0.0083	<0.041	
Gamma Chlordane	8081B	N	UG/L	MDL	<0.0073	<0.0070	<0.0070	<0.0072	<0.036	
Heptachlor	8081B	N	UG/L	0.4 UG/L	<0.0021	<0.0020	<0.0020	<0.0020	<0.010	
Heptachlor Epoxide	8081B	N	UG/L	0.2 UG/L	<0.0024	<0.0023	<0.0023	<0.0024	<0.012	
Lindane	8081B	N	UG/L	0.2 UG/L	<0.0021	**0.0027 J**	<0.0020	<0.0020	**0.011 J**	
Methomyl	531.1	N	UG/L	500 UG/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Methoxychlor	8081B	N	UG/L	40 UG/L	<0.031	<0.030	<0.030	<0.031	<0.15	
Toxaphene	8081B	N	UG/L	3 UG/L	<0.31	<0.30	<0.30	<0.31	<1.5	
2,4-Dichlorophenoxyacetic Acid	8151A	N	UG/L	70 UG/L	<0.25 UJ	<0.24 UJ	<0.24 UJ	<0.25 UJ	<0.24 UJ	
Methiocarb	531.1	N	UG/L	MDL	<1.0	<1.0	<1.0	<1.0 UJ	<1.0	
Oxamyl	531.1	N	UG/L	200 UG/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Pronamide	8270D	N	UG/L	1200 UG/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Silvex	8151A	N	UG/L	50 UG/L	<0.0099 UJ	<0.0095 UJ	<0.0095 UJ	<0.0098 UJ	<0.0097 UJ	
Arsenic	6020A	N	UG/L	10 UG/L	<0.68	<0.68	<0.68	<0.68	<0.68	

Table 4-2
Rinsate Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					EB	PAD A	PAD B	PAD B	PAD C	TB
Field Sample ID					EQUIPMENT_BLANK-091020	PAD-A-091020	PAD-B-091020-D	PAD-B-091020	PAD-C-091020	TRIP_BLANK-091020
Date Sampled					09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020
Sample Purpose					EB	FS	DUP	FS	FS	TB
Start Depth - End Depth										
Parameter Name	Analytical Method	Filtered	Report Units	CPS_RINSATE	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Barium	6020A	N	UG/L	2000 UG/L	<0.75	**35**	**52**	**48**	**49**	
Cadmium	6020A	N	UG/L	5 UG/L	<0.15	<0.15	<0.15	<0.15	<0.15	
Calcium	6020A	N	UG/L	250,000*** UG/L	**160 J**	**34000**	**35000 J**	**34000 J**	**35000**	
Chromium	6020A	N	UG/L	100 UG/L	<0.33	**1.2 J**	**3.8 J**	**1 J**	**1.1 J**	
Lead	6020A	N	UG/L	15 UG/L	<0.071	**0.97**	**7.5**	**6.8**	**0.77**	
Mercury	7470A	N	UG/L	2 UG/L	<0.079	<0.079	<0.079	<0.079	<0.079	
Nickel	6020A	N	UG/L	390 UG/L	<0.6	**2.2**	**5.5**	**5.7**	**2**	
Selenium	6020A	N	UG/L	50 UG/L	<0.28	<0.28	<0.28	<0.28	<0.28	
Silver	6020A	N	UG/L	94 UG/L	<0.17	<0.17	<0.17	<0.17	<0.17	
Non-Amenable Cyanide	9012A	N	UG/L	MDL	<5.0 R	<5.0 R	<5.0 R	<5.0 R	<5.0 R	
Amenable Cyanide	9012A	N	UG/L	200** UG/L	<5.0 UJ	**6.6 J**	**6.7 J**	**5.7 J**	**11 J**	
Cyanide	9012A	N	UG/L	200 UG/L	<5.0	**6.6 J**	**6.7 J**	**5.7 J**	**11**	

Notes:
Yellow shading indicates result exceeds the criteria
Gray shading indicates non-detect exceeds the criteria
Bolded value = Detected value
< = Non-detect value
UG/L = Micrograms per liter
J = Report result is an estimate
UJ = Not detected. Reporting limit may not be accurate or precise
R = Sample result rejected
(1) Bis(2-Chloro-1-Methylethyl) Ether and bis (2-Chloroisopropyl)ether co-elute and cannot be reported separetely via the 8270 GC/MS analysis
(2) Per DNREC approval in letter dated January 14, 2021: For the constituents identified, when the sample method detection limit can not attain the low RSL-CPS concentration value using standard agency-accepted laboratory methodology, the sample MDL will be used as the CPS.
* RE: Endosulfan I and Endosulfan II - The RSL for the constituent Endosulfan will be used as the CPS compared to the sum EndosulfanI + Endosulfan II; use of CPS alternate criteria approved by DNREC in letter dated January 14. 2021.
** RE: Ammenable Cyanide - The RSL for the constituent cyanide will be used as the CPS for ammenable cyanide; use of CPS alternate criteria approved by DNREC in letter dated January 14, 2021.
*** Per DNREC approval in letter dated January 14, 2021, a Recommended Daily Allowance (RDA) based value will be used as the Calcium CPS

Table 4-3
Rinsate Exceedance Analytical Results - Exceedance Constituents Only
Incinerator Waste Storage Pad Closure
DuPont Expermental Station
Wilmington Delaware

Location ID					EB	PAD A	PAD B	PAD B	PAD C	TB
Field Sample ID					EQUIPMENT_BLANK-091020	PAD-A-091020	PAD-B-091020-D	PAD-B-091020	PAD-C-091020	TRIP_BLANK-091020
Date Sampled					09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020
Sample Purpose					EB	FS	DUP	FS	FS	TB
Start Depth - End Depth										
Parameter Name	Analytical Method	Filtered	Report Units	CPS_RINSATE	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
2,4,6-Trichlorophenol	8270D	N	UG/L	4.1 UG/L	<0.51	<0.50	<0.51	<0.51	**7.1**	
Bis(2-Ethylhexyl)Phthalate	8270D	N	UG/L	6 UG/L	<5.1	<5.0	<5.1	<5.1	**7.5 J**	
Naphthalene	8270D	N	UG/L	0.17 UG/L	<0.10	<0.10	<0.10	<0.10	**0.25 J**	
Alpha-BHC	8081B	N	UG/L	0.0072 UG/L	<0.0031	<0.0030	<0.0030	<0.0031	<0.015	
beta-BHC	8081B	N	UG/L	0.025 UG/L	<0.0035	**0.0041 J**	<0.0034	<0.0035	**0.058 J**	

Notes:

##	Yellow shading indicates result exceeds the criteria
##	Gray shading indicates non-detect exceeds the criteria

Bolded value = Detected value
< = Non-detect value
UG/L = Micrograms per liter
J = Report result is an estimate

Table 4-4
Soil Sample IDs and Proposed vs Obtained Soil Sample Intervals
Incinerator Area Storage Pad Soil Sampling
DuPont Experimental Station
Wilmington, Delaware

Location ID	Waste Storage Pad Field Sample ID	Waste Storage Pad Location Details	Sample Representation	Proposed Depth Interval (ft)	Sample Collection Interval obtained in Field	General List of Parameters (see Table 2 for detailed constituent list)
Pad-A-SE	PAD-A-SE-0-0.5	Pad A - near Southeast Corner and Pad A Sump	Pad A SE Corner	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-A-Sump	PAD-A-Sump-2-3	Pad A - near Southeast Corner and Pad A Sump	Pad A Sump	2.0-3.0	2.0-3.0	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-A-S-Ctr	PAD-A-S-CTR-0-0.5	Pad A - Center point of south wall	Pad A center area of south wall	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-A/B-S	PAD-AB-S-0-0.5	Situated between Pad A SW Corner and Pad B SE Corner	Corners - Pad A SW and Pad B SW	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-S-Ctr	PAD-B-S-CTR-0-0.5	Pad B - Center point of south wall	Pad A center area of south wall	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-SW	PAD-B-SW-0-0.5	Pad B - Southwest corner	Pad B SW Corner	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-W-Ctr	PAD-B-W-Ctr-0-0.5	Pad B - Sample location adjacent to sump located adjacent to west wall of Pad B	Pad B center area of west wall	0-0.5 (corrected typo 3.0-4.0)	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-Sump	PAD-B-SUMP-3-4	Pad B - Sample location adjacent to sump located adjacent to west wall of Pad B	Pad B Sump	3.0-4.0	1.5-2.0 (refusal encountered)	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-NW	PAD-B-NW-0-0.5	Pad B - Northwest corner	Pad B NW Corner	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(E)-NE	PAD-G-E-NE-0-0.5	Pad G - Storage area to East, Northeast corner of pad	Pad G to East - NE corner	0-0.5	0-0.5 (sample from gravel fill that is atleast 16-18" deep)	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(E)-E-Ctr	PAD-G-E-CTR-0-0.5	Pad G - Storage area to East, Center point of eastern side	Pad G to East - Ctr of eastern side	0-0.5	0-0.5 (sample from gravel fill that is atleast 16-18" deep)	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(E)-SE	PAD-G-E-SE-0-0.5	Pad G - Storage area to East, Southeast corner of pad	Pad G to East - SE corner	0-0.5	0-0.5 (sample from gravel fill that is atleast 16-18" deep)	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(S)-SE	PAD-G-S--SE-0-0.5	Pad G - Storage area to South, Southeast corner of pad	Pad G to South - SE corner	0-0.5	0-0.5 (sample from gravel fill that is atleast 16-18" deep)	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(S)-S-Ctr	PAD-G-S-CTR-0-0.5	Pad G - Storage area to South, Center point of southern side	Pad G to South - Ctr of southern side	0-0.5	0-0.5 (sample from gravel fill that is atleast 16-18" deep)	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(S)-SW	PAD-G-S-SW-0-0.5	Pad G - Storage area to South, Southwest corner of pad	Pad G to South - SW corner	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-23-SW	PAD-23-SW-0-0.5	Pad 23 - Southwest Corner	Pad 23 SW Corner	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-23-S-Ctr	PAD-23-S-CTR-0-0.5	Pad 23 - Center point of south wall	Pad 23 center area of south wall	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad -23/24 sumps	PAD-23-24-Sumps-0-0.5	Situated between Pad 23 sump and Pad 24 sump; base of sumps are at ground surface.	Sumps Pad 23 and 24	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-23/24-S	PAD-23-24-S-0-0.5	Situated between Pad 23 SE Corner and Pad 24 SW Corner	Corners - Pad 23 SE and Pad 24 SW	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-24-S-Ctr	PAD-24-S-CTR-0-0.5	Pad 24 - Center point of south wall	Pad 24 center area of south wall	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-24/24-0-S	PAD-23-24-0-S-0-0.5	Situated between Pad 24 SE Corner and Pad 24-0 SW Corner	Corners - Pad 23 SE and Pad 24 SW	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-24-0-S-Ctr	PAD-24-0-S-CTR-0-0.5	Pad 24-0 - Center point of south wall	Pad 24-0 center area of south wall	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides

Table 4-4
Soil Sample IDs and Proposed vs Obtained Soil Sample Intervals
Incinerator Area Storage Pad Soil Sampling
DuPont Experimental Station
Wilmington, Delaware

Location ID	Waste Storage Pad Field Sample ID	Waste Storage Pad Location Details	Sample Representation	Proposed Depth Interval (ft)	Sample Collection Interval obtained in Field	General List of Parameters (see Table 2 for detailed constituent list)
Pad-24-0-SE	PAD-24-0-SE-0-0.5	Pad 24-0 SE Corner	Pad 24-0 SE corner	0-0.5	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad 24-0 Sump	*					

* = Due to Access issues (concrete/asphalt to north, east, west, and very low to the ground conduit to the south) a 3-4ft deep sample is not accessible at the Pad 24-0 sump area; no soil sample will be collected.
VOA = Volatile Organic Analysis
SVOA = Semi-Volatile Organic Analysis
Pest. = Pesticides
Herb. = Herbicides

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-23-24-S	PAD-23-24-SUMPS	PAD-23-24-SUMPS	PAD-23-S-CTR	PAD-23-SW	PAD-24-0-S-CTR	PAD-24-0-SE
Field Sample ID					PAD-23-24-S-0-0.5	PAD-23-24-SUMPS-0-0.5-D	PAD-23-24-SUMPS-0-0.5	PAD-23-S-CTR-0-0.5	PAD-23-SW-0-0.5	PAD-24-0-S-CTR-0-0.5	PAD-24-0-SE-0-0.5
Date Sampled					08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020
Sample Purpose					FS	DUP	FS	FS	FS	FS	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	8260C	N	MG/KG	8.8 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
1,1,1-Trichloroethane	8260C	N	MG/KG	36000 MG/KG	<0.00059	<0.00055	<0.00053	<0.00060	<0.00068	<0.00057	<0.00075
1,1,2,2-Tetrachloroethane	8260C	N	MG/KG	2.7 MG/KG	<0.00039	<0.00037	<0.00036	<0.00040	<0.00045	<0.00038	<0.00050
1,1,2-Trichloroethane	8260C	N	MG/KG	5 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
1,1,2-Trichlorotrifluoroethane	8260C	N	MG/KG	28000 MG/KG	<0.00059	<0.00055	<0.00053	<0.00060	<0.00068	<0.00057	<0.00075
1,1-Dichloroethane	8260C	N	MG/KG	16 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
1,1-Dichloroethene	8260C	N	MG/KG	1000 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
1,2-Dibromo-3-Chloropropane	8260C	N	MG/KG	0.06 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
1,2-Dibromoethane (EDB)	8260C	N	MG/KG	0.16 MG/KG	<0.00039	<0.00037	<0.00036	<0.00040	<0.00045	<0.00038	<0.00050
1,2-Dichlorobenzene	8270D	N	MG/KG	9300 MG/KG	**0.019 J**	<0.019	<0.019	<0.02	<0.1	**0.1**	<0.22
1,2-Dichloroethane	8260C	N	MG/KG	2 MG/KG	<0.00059	<0.00055	<0.00053	<0.00060	<0.00068	<0.00057	<0.00075
1,2-Dichloropropane	8260C	N	MG/KG	11 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
1,3-Dichlorobenzene	8270D	N	MG/KG	MDL	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
1,4-Dichlorobenzene	8270D	N	MG/KG	11 MG/KG	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
Acetone	8260C	N	MG/KG	670000 MG/KG	**0.17**	**0.2 J**	**0.0066 J**	<0.0060	<0.0068	<0.0057	**0.051**
Acrylonitrile	8260C	N	MG/KG	1.1 MG/KG	<0.00078	<0.00073	<0.00071	<0.00080	<0.00090	<0.00076	<0.0010
Benzene	8260C	N	MG/KG	5.1 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
Bromoform	8260C	N	MG/KG	86 MG/KG	<0.0049	<0.0046	<0.0045	<0.0050	<0.0056	<0.0048	<0.0063
Carbon Disulfide	8260C	N	MG/KG	3500 MG/KG	<0.00059	<0.00055	<0.00053	<0.00060	<0.00068	<0.00057	<0.00075
Carbon Tetrachloride	8260C	N	MG/KG	2.9 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
Chlorobenzene	8260C	N	MG/KG	1300 MG/KG	<0.00049	<0.00046	<0.00045 UJ	<0.00050	<0.00056	<0.00048	<0.00063
Chloroform	8260C	N	MG/KG	1.4 MG/KG	<0.00059	<0.00055	<0.00053	<0.00060	<0.00068	<0.00057	<0.00075
cis-1,3-Dichloropropene	8260C	N	MG/KG	MDL	<0.00039	<0.00037	<0.00036	<0.00040	<0.00045	<0.00038	<0.00050
Dichlorodifluoromethane	8260C	N	MG/KG	370 MG/KG	<0.00059	<0.00055	<0.00053	<0.00060	<0.00068	<0.00057	<0.00075
Diethyl Ether	8260C	N	MG/KG	230000 MG/KG	<0.00098	<0.00092	<0.00089	<0.0010	<0.0011	<0.00095	<0.0013
Ethyl Acetate	8260C	N	MG/KG	2600 MG/KG	<0.00098	<0.00092	<0.00089	<0.0010	<0.0011	<0.00095	<0.0013
Ethyl Chloride	8260C	N	MG/KG	57000 MG/KG	<0.00098	<0.00092	<0.00089	<0.0010	<0.0011	<0.00095	<0.0013
Ethyl Methacrylate	8260C	N	MG/KG	7600 MG/KG	<0.00098	<0.00092	<0.00089 UJ	<0.0010	<0.0011	<0.00095	<0.0013
Ethylbenzene	8260C	N	MG/KG	25 MG/KG	<0.00039	<0.00037	<0.00036 UJ	<0.00040	<0.00045	<0.00038	<0.00050
Iodomethane	8260C	N	MG/KG	MDL	<0.00039	<0.00037	<0.00036	<0.00040	<0.00045	<0.00038	<0.00050
Isobutyl Alcohol	8015B	N	MG/KG	350000 MG/KG	<0.2	<0.19	<0.19	<0.21	<0.21	<0.2	<0.23
Methacrylonitrile	8260C	N	MG/KG	100 MG/KG	<0.0078	<0.0073	<0.0071	<0.0080	<0.0090	<0.0076	<0.01
Methanol	8015B	N	MG/KG	1200000 MG/KG	<0.23	<0.22	<0.23	<0.24	<0.24	<0.24	<0.27
Methyl Bromide	8260C	N	MG/KG	30 MG/KG	<0.00069	<0.00064	<0.00062	<0.00070	<0.00079	<0.00067	<0.00088
Methyl Chloride	8260C	N	MG/KG	460 MG/KG	<0.00059	<0.00055	**0.00054 J**	<0.00060	<0.00068	<0.00057	**0.00081 J**
Methyl Ethyl Ketone	8260C	N	MG/KG	190000 MG/KG	<0.0020	**0.0038 J**	<0.0018	<0.0020	<0.0023	<0.0019	<0.0025
Methyl Isobutyl Ketone	8260C	N	MG/KG	140000 MG/KG	<0.00098	<0.00092	<0.00089	<0.0010	<0.0011	<0.00095	<0.0013
Methyl Methacrylate	8260C	N	MG/KG	19000 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
Methylene Bromide	8260C	N	MG/KG	99 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
Methylene Chloride	8260C	N	MG/KG	1000 MG/KG	<0.0020	<0.0018	<0.0018	<0.0020	<0.0023	<0.0019	<0.0025
N-Butanol	8015B	N	MG/KG	120000.00 MG/KG	<0.23	<0.22	<0.23	<0.24	<0.24	<0.24	<0.27
Pentachloroethane	8260C	N	MG/KG	36 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
Tetrachloroethene	8260C	N	MG/KG	100 MG/KG	<0.00049	<0.00046	<0.00045 UJ	<0.00050	<0.00056	<0.00048	**0.0027 J**
Toluene	8260C	N	MG/KG	47000 MG/KG	<0.00059	<0.00055	<0.00053	<0.00060	<0.00068	<0.00057	<0.00075
trans-1,2-Dichloroethene	8260C	N	MG/KG	23000 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
trans-1,3-Dichloropropene	8260C	N	MG/KG	MDL	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	<0.00063
Trichloroethene	8260C	N	MG/KG	6 MG/KG	<0.00049	<0.00046	<0.00045	<0.00050	<0.00056	<0.00048	**0.0017 J**
Trichlorofluoromethane	8260C	N	MG/KG	350000 MG/KG	<0.00069	<0.00064	<0.00062	<0.00070	<0.00079	<0.00067	<0.00088
Vinyl Chloride	8260C	N	MG/KG	1.7 MG/KG	<0.00059	<0.00055	<0.00053	<0.00060	<0.00068	<0.00057	<0.00075
Xylenes	8260C	N	MG/KG	2500 MG/KG	<0.0014	<0.0013	<0.0012 UJ	<0.0014	<0.0016	<0.0013	<0.0018
1,2,4,5-Tetrachlorobenzene	8270D	N	MG/KG	350 MG/KG	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
1,2,4-Trichlorobenzene	8260C	N	MG/KG	110 MG/KG	<0.0049	<0.0046	<0.0045 UJ	<0.0050	<0.0056	<0.0048	<0.0063

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-23-24-S	PAD-23-24-SUMPS	PAD-23-24-SUMPS	PAD-23-S-CTR	PAD-23-SW	PAD-24-0-S-CTR	PAD-24-0-SE
Field Sample ID					PAD-23-24-S-0-0.5	PAD-23-24-SUMPS-0-0.5-D	PAD-23-24-SUMPS-0-0.5	PAD-23-S-CTR-0-0.5	PAD-23-SW-0-0.5	PAD-24-0-S-CTR-0-0.5	PAD-24-0-SE-0-0.5
Date Sampled					08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020
Sample Purpose					FS	DUP	FS	FS	FS	FS	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,2,4-Trichlorobenzene	8270D	N	MG/KG	110 MG/KG	**0.056 J**	<0.026	<0.026	<0.028	<0.14	**0.096**	**1.2**
1,4-Dioxane	8260C	N	MG/KG	24 MG/KG	<0.036	<0.034	<0.033	<0.037	<0.042	<0.035	<0.046
2,4,5-Trichlorophenol	8270D	N	MG/KG	82000 MG/KG	<0.035	<0.033	<0.034	<0.036	<0.18	<0.035	<0.4
2,4,6-Trichlorophenol	8270D	N	MG/KG	210 MG/KG	<0.031	<0.03	<0.03	<0.032	<0.16	<0.031	<0.35
2,4-Dichlorophenol	8270D	N	MG/KG	2500 MG/KG	<0.023	<0.022	<0.022	<0.024	<0.12	<0.024	<0.26
2,4-Dimethylphenol	8270D	N	MG/KG	16000 MG/KG	<0.035	<0.033	<0.034	<0.036	<0.18	<0.035	<0.4
2,4-Dinitrophenol	8270D	N	MG/KG	1600 MG/KG	<0.39	<0.37	<0.37	<0.4	<2	<0.39	<4.4
2,4-Dinitrotoluene	8270D	N	MG/KG	7.4 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
2,6-Dichlorophenol	8270D	N	MG/KG	MDL	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
2,6-Dinitrotoluene	8270D	N	MG/KG	1.5 MG/KG	<0.027	<0.026	<0.026	<0.028	<0.14	<0.028	<0.31
2-Acetylaminofluorene	8270D	N	MG/KG	0.6(**) MG/KG	<0.12	<0.11	<0.11	<0.12	<0.61	<0.12	<1.3
2-Chloronaphthalene	8270D	N	MG/KG	60000 MG/KG	<0.0078	<0.0074	<0.0074	**0.0081 J**	<0.04	<0.0079	<0.088
2-Chlorophenol	8270D	N	MG/KG	5800 MG/KG	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
2-Methylphenol (O-Cresol)	8270D	N	MG/KG	41000 MG/KG	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
3-Methylcholanthrene	8270D	N	MG/KG	0.1(**) MG/KG	<0.031 UJ	<0.03 UJ	<0.03	<0.032 UJ	<0.16 UJ	<0.031	<0.35
Chlorobenzenamine)	8270D	N	MG/KG	23 MG/KG	<0.19	<0.19	<0.19	<0.2	<1	<0.2	<2.2
4-Bromophenyl Phenyl Ether	8270D	N	MG/KG	MDL	<0.027	<0.026	<0.026	<0.028	<0.14	<0.028	<0.31
4-Chloro-3-Methylphenol	8270D	N	MG/KG	82000 MG/KG	<0.027	<0.026	<0.026	<0.028	<0.14	<0.028	<0.31
4-Chloroaniline	8270D	N	MG/KG	11 MG/KG	<0.039	<0.037	<0.037	<0.04	<0.2	<0.039	<0.44
4-Methylphenol (P-Cresol)	8270D	N	MG/KG	82000 MG/KG	**0.03 J**	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
4-Nitroaniline	8270D	N	MG/KG	110 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
4-Nitrophenol	8270D	N	MG/KG	MDL	<0.19	<0.19	<0.19	<0.2	<1	<0.2	<2.2
5-Nitro-Ortho-Toluidine	8270D	N	MG/KG	260 MG/KG	<0.19	<0.19	<0.19	<0.2	<1	<0.2	<2.2
Acetophenone	8270D	N	MG/KG	120000.00 MG/KG	**0.038 J**	<0.019	<0.019	<0.02	<0.1	**0.12**	<0.22
Aniline	8270D	N	MG/KG	400 MG/KG	<0.19	<0.19	<0.19 UJ	<0.2	<1	<0.2	<2.2
Anthracene	8270D	N	MG/KG	230000 MG/KG	**0.02**	**0.01 J**	**0.011 J**	**0.012 J**	**0.074 J**	**0.016 J**	<0.044
Benzo(A)Anthracene	8270D	N	MG/KG	21 MG/KG	**0.041**	**0.029**	**0.043**	**0.01 J**	**0.18**	**0.05**	**0.17 J**
Benzo[A]Pyrene	8270D	N	MG/KG	2.1 MG/KG	**0.051**	**0.034**	**0.051**	<0.0040	**0.2**	**0.064**	**0.25**
Bis(2-Chloro-1-Methylethyl) Ether(1)	8270D	N	MG/KG	MDL	<0.023	<0.022	<0.022	<0.024	<0.12	<0.024	<0.26
Bis(2-Chloroethoxy)Methane	8270D	N	MG/KG	2500 MG/KG	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
Bis(2-Chloroethyl)Ether	8270D	N	MG/KG	1 MG/KG	<0.027	<0.026	<0.026	<0.028	<0.14	<0.028	<0.31
Bis(2-Ethylhexyl)Phthalate	8270D	N	MG/KG	160 MG/KG	<0.078	<0.074	<0.074	<0.081	**0.62 J**	**0.19 J**	<0.88
Butyl Benzyl Phthalate	8270D	N	MG/KG	1200 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	**0.27**	<0.88
Chrysene	8270D	N	MG/KG	2100 MG/KG	**0.059**	**0.033**	**0.053**	**0.016 J**	**0.22**	**0.08**	**0.3**
Dibenz(A,H)Anthracene	8270D	N	MG/KG	2.1 MG/KG	**0.01 J**	<0.0074	<0.0074	<0.0081	<0.04	**0.018 J**	<0.088
Diethyl Phthalate	8270D	N	MG/KG	660000 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Dimethyl Phthalate	8270D	N	MG/KG	660000(*) MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	**0.42**	<0.88
Di-N-Butyl Phthalate	8270D	N	MG/KG	82000 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Fluoranthene	8270D	N	MG/KG	30000 MG/KG	**0.13**	**0.056**	**0.08**	**0.026**	**0.41**	**0.099**	**0.42**
Hexachlorobenzene	8270D	N	MG/KG	0.96 MG/KG	<0.0078	<0.0074	<0.0074	<0.0081	<0.04	<0.0079	<0.088
Hexachlorobutadiene	8270D	N	MG/KG	5.3 MG/KG	<0.043	<0.041	<0.041	<0.044	<0.22	<0.043	<0.48
Hexachlorocyclopentadiene	8270D	N	MG/KG	7.5 MG/KG	<0.23	<0.22	<0.22 UJ	<0.24	<1.2	<0.24	<2.6
Hexachloroethane	8270D	N	MG/KG	8 MG/KG	<0.039	<0.037	<0.037	<0.04	<0.2	<0.039	<0.44
Hexachloropropylene	8270D	N	MG/KG	MDL	<0.12	<0.11	<0.11	<0.12	<0.61	<0.12	<1.3
Indeno (1,2,3-CD) Pyrene	8270D	N	MG/KG	21 MG/KG	**0.041**	**0.025**	**0.041**	<0.0040	**0.16**	**0.06**	**0.2 J**
Isosafrole	8270D	N	MG/KG	MDL	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Methapyrilene	8270D	N	MG/KG	MDL	<1.9	<1.9	<1.9	<2	<10	<2	<22
Naphthalene	8270D	N	MG/KG	17 MG/KG	**0.024**	<0.0074	**0.013 J**	**0.016 J**	**0.063 J**	**0.035**	<0.088
N-Dioctyl Phthalate	8270D	N	MG/KG	8200 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Nitrobenzene	8270D	N	MG/KG	22 MG/KG	<0.031	<0.03	<0.03	<0.032	<0.16	<0.031	<0.35
N-Nitrosodiethylamine	8270D	N	MG/KG	0.015(**) MG/KG	<0.023	<0.022	<0.022	<0.024	<0.12	<0.024	<0.26
N-Nitroso-Di-N-Butylamine	8270D	N	MG/KG	0.46(**) MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-23-24-S	PAD-23-24-SUMPS	PAD-23-24-SUMPS	PAD-23-S-CTR	PAD-23-SW	PAD-24-0-S-CTR	PAD-24-0-SE
Field Sample ID					PAD-23-24-S-0-0.5	PAD-23-24-SUMPS-0-0.5-D	PAD-23-24-SUMPS-0-0.5	PAD-23-S-CTR-0-0.5	PAD-23-SW-0-0.5	PAD-24-0-S-CTR-0-0.5	PAD-24-0-SE-0-0.5
Date Sampled					08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020
Sample Purpose					FS	DUP	FS	FS	FS	FS	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
N-Nitrosodi-N-Propylamine	8270D	N	MG/KG	0.33 MG/KG	<0.027	<0.026	<0.026	<0.028	<0.14	<0.028	<0.31
N-Nitrosopiperidine	8270D	N	MG/KG	0.24 MG/KG	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
N-Nitrosopyrrolidine	8270D	N	MG/KG	1.1 MG/KG	<0.027	<0.026	<0.026	<0.028	<0.14	<0.028	<0.31
Pentachlorobenzene	8270D	N	MG/KG	930 MG/KG	<0.023	<0.022	<0.022	<0.024	<0.12	<0.024	<0.26
Pentachloronitrobenzene	8270D	N	MG/KG	13 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Pentachlorophenol	8270D	N	MG/KG	4 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Phenacetin	8270D	N	MG/KG	1000 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Phenanthrene	8270D	N	MG/KG	230000(*) MG/KG	**0.069**	**0.025**	**0.043**	**0.022**	**0.14**	**0.061**	**0.16 J**
Phenol	8270D	N	MG/KG	250000 MG/KG	<0.019	<0.019	<0.019	<0.02	<0.1	<0.02	<0.22
Pyrene	8270D	N	MG/KG	23000 MG/KG	**0.12**	**0.048**	**0.078**	**0.031**	**0.44**	**0.095**	**0.5**
Pyridine	8270D	N	MG/KG	1200 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Safrole	8270D	N	MG/KG	10 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
4,4'-DDD	8081B	N	MG/KG	9.6 MG/KG	**0.0082 J**	**0.00045 J**	**0.00038 J**	<0.00040	<0.00040	<0.0019	<0.0022
4,4'-DDE	8081B	N	MG/KG	9.3 MG/KG	**0.023 J**	**0.0044**	**0.0054**	**0.0018 J**	**0.0050**	**0.0036 J**	**0.0076 J**
4,4'-DDT	8081B	N	MG/KG	8.5 MG/KG	**0.036 J**	**0.0025**	**0.0061 J**	<0.00096	**0.011**	<0.076	<0.059
Alpha Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	**0.0046 J**	**0.00020 J**	**0.00025 J**	**0.00046 J**	**0.00040 J**	<0.035	<0.037
Alpha-BHC	8081B	N	MG/KG	0.36 MG/KG	<0.00020	<0.00019	<0.00019	<0.00021	<0.00021	<0.0010	<0.0011
beta-BHC	8081B	N	MG/KG	1.3 MG/KG	<0.00051	<0.00049	<0.00049	<0.00053	<0.00053	<0.0026	<0.0029
Carbaryl	8318	N	MG/KG	82000.00 MG/KG	<0.059	<0.056	<0.056	<0.061	<0.061	<0.059	<0.067
Carbofuran	8318	N	MG/KG	4100.00 MG/KG	<0.059	<0.056	<0.056	<0.061	<0.061	<0.059	<0.067
Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	<0.0047	<0.0044	<0.0045	<0.0049	<0.0049	<0.024	<0.026
delta-BHC	8081B	N	MG/KG	1.3(*) MG/KG	<0.00052	<0.00050	<0.00050	<0.00055	**0.0018**	<0.0026	<0.0030
Endosulfan I	8081B	N	MG/KG	7000(*) MG/KG	**0.0031 J**	<0.00024	<0.00024	<0.00027	**0.00037 J**	**0.0041 J**	**0.0044 J**
Endosulfan II	8081B	N	MG/KG	7000(*) MG/KG	**0.015 J**	<0.0012	<0.0012	<0.0013	<0.0013	**0.012 J**	<0.025
Sum Endosulfan I + Endosulfan II	8081B	N	MG/KG	7000(*) MG/KG	**0.0181 J**	<0.00144	<0.00144	<0.00157	0.00037	**0.0161 J**	0.044 J
Endosulfan Sulfate	8081B	N	MG/KG	4900 MG/KG	<0.00038	<0.00036	<0.00037 UJ	<0.00040	<0.00040	**0.0092 J**	<0.0022
Endrin	8081B	N	MG/KG	250 MG/KG	**0.015 J**	<0.00075	<0.00076 UJ	<0.00082	<0.00083	**0.0056 J**	<0.0045
Gamma Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	**0.014 J**	<0.00028	**0.00034 J**	<0.00030	**0.00052 J**	<0.0015	<0.0016
Heptachlor	8081B	N	MG/KG	0.63 MG/KG	**0.0024 J**	<0.00034	<0.00035 UJ	<0.00038	<0.00038	<0.0018	<0.0020
Heptachlor Epoxide	8081B	N	MG/KG	0.33 MG/KG	**0.0077 J**	<0.00019	<0.00019 UJ	<0.00021	<0.00021	<0.0094	<0.0098
Lindane	8081B	N	MG/KG	2.5 MG/KG	<0.00024	<0.00023	<0.00023	<0.00025	**0.0011**	<0.0012	<0.0014
Methomyl	8318	N	MG/KG	21000 MG/KG	<0.059	<0.056	<0.056	<0.061	<0.061	<0.059	<0.067
Methoxychlor	8081B	N	MG/KG	4100 MG/KG	**0.0027 J**	<0.0020	<0.0020 UJ	<0.0022	<0.0022	<0.011	<0.012
Toxaphene	8081B	N	MG/KG	2.1 MG/KG	<0.016	<0.015	<0.016	<0.017	<0.017	<0.082	<0.092
2,4-Dichlorophenoxyacetic Acid	8151A	N	MG/KG	9600 MG/KG	<0.014 UJ	<0.013 UJ	<0.013 UJ	<0.015 UJ	<0.014 UJ	<0.014 UJ	<0.016 UJ
Methiocarb	8318	N	MG/KG	MDL	<0.059	<0.056	<0.056	<0.061	<0.061	<0.059	<0.067
Oxamyl	8318	N	MG/KG	21000 MG/KG	<0.059	<0.056	<0.056	<0.061	<0.061	<0.059	<0.067
Pronamide	8270D	N	MG/KG	62000 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88
Silvex	8151A	N	MG/KG	6600 MG/KG	<0.00087	<0.00083 UJ	<0.00083 UJ	<0.00091	<0.00090	<0.00088 UJ	<0.00099 UJ
Arsenic	6020A	N	MG/KG	11(***) MG/KG	**13**	**4.7**	**4.8 J**	**41 J**	**8.2 J**	**17 J**	**28**
Barium	6020A	N	MG/KG	220000.00 MG/KG	**160**	**86**	**84**	**150**	**100**	**140**	**320**
Cadmium	6020A	N	MG/KG	980 MG/KG	**1.9**	**0.17 J**	**0.20**	**0.24**	**4.2**	**1.5**	**6.1**
Calcium	6020A	N	MG/KG	2500000(*) MG/KG	**3800**	**1300**	**940**	**1100**	**6100**	**5500**	**5900**
Chromium	6020A	N	MG/KG	214(***) MG/KG	**89**	**26**	**23 J**	**50 J**	**52 J**	**63 J**	**76**
Lead	6020A	N	MG/KG	800 MG/KG	**84**	**23**	**23**	**120**	**48**	**48**	**140**
Mercury	7471A	N	MG/KG	46 MG/KG	**0.79 J**	**0.089 J**	**0.088 J**	**0.14 J**	**5.1 J**	**3.1 J**	**9.6 J**
Nickel	6020A	N	MG/KG	22000 MG/KG	**89**	**15**	**14**	**20**	**42**	**53**	**75**
Selenium	6020A	N	MG/KG	5800 MG/KG	**0.52 J**	<0.29	<0.24	**0.53 J**	**0.47 J**	**0.63 J**	**1.1**
Silver	6020A	N	MG/KG	5800 MG/KG	**2.2**	**0.17 J**	**0.076 J**	**0.13 J**	**0.82**	**1.5**	**2.0**
Amenable Cyanide	9012A	N	MG/KG	150(*) MG/KG	<0.21 UJ	<0.20 UJ	<0.20 UJ	<0.22 UJ	**0.32 J**	<0.21 UJ	<0.24 UJ
Cyanide	9012A	N	MG/KG	150 MG/KG	<0.21 UJ	<0.2 UJ	<0.21 UJ	<0.22 UJ	**0.32 J**	<0.21 UJ	<0.23 UJ

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-24-24-0-S	PAD-24-S-CTR	PAD-A-S-CTR	PAD-A-SE	PAD-A-SUMP	PAD-AB-S	PAD-B-NW	PAD-B-S-CTR	PAD-B-SUMP
Field Sample ID					PAD-24-24-0-S-0-0.5	PAD-24-S-CTR-0-0.5	PAD-A-S-CTR-0-0.5	PAD-A-SE-0-0.5	PAD-A-SUMP-2-3	PAD-AB-S-0-0.5	PAD-B-NW-0-0.5	PAD-B-S-CTR-0-0.5	PAD-B-SUMP-1.5-2
Date Sampled					08/28/2020	08/28/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose					FS	FS	FS	FS	FS	FS	FS	FS	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	2 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1.5 - 2
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	8260C	N	MG/KG	8.8 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
1,1,1-Trichloroethane	8260C	N	MG/KG	36000 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
1,1,2,2-Tetrachloroethane	8260C	N	MG/KG	2.7 MG/KG	<0.00039	<0.00039	<0.024	<0.00045	<0.00043	<0.024	<0.00039	<0.00044	<0.00044
1,1,2-Trichloroethane	8260C	N	MG/KG	5 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
1,1,2-Trichlorotrifluoroethane	8260C	N	MG/KG	28000 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
1,1-Dichloroethane	8260C	N	MG/KG	16 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
1,1-Dichloroethene	8260C	N	MG/KG	1000 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
1,2-Dibromo-3-Chloropropane	8260C	N	MG/KG	0.06 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
1,2-Dibromoethane (EDB)	8260C	N	MG/KG	0.16 MG/KG	<0.00039	<0.00039	<0.024	<0.00045	<0.00043	<0.024	<0.00039	<0.00044	<0.00044
1,2-Dichlorobenzene	8270D	N	MG/KG	9300 MG/KG	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	**0.025 J**
1,2-Dichloroethane	8260C	N	MG/KG	2 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
1,2-Dichloropropane	8260C	N	MG/KG	11 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
1,3-Dichlorobenzene	8270D	N	MG/KG	MDL	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
1,4-Dichlorobenzene	8270D	N	MG/KG	11 MG/KG	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
Acetone	8260C	N	MG/KG	670000 MG/KG	<0.0059	<0.0058	<0.35	<0.0067	<0.0065	<0.36	<0.0059	<0.0066	<0.0066
Acrylonitrile	8260C	N	MG/KG	1.1 MG/KG	<0.00078	<0.00077	<0.047	<0.00089	<0.00087	<0.048	<0.00078	<0.00089	<0.00088
Benzene	8260C	N	MG/KG	5.1 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
Bromoform	8260C	N	MG/KG	86 MG/KG	<0.0049	<0.0048	<0.3	<0.0056	<0.0054	<0.3	<0.0049	<0.0055	<0.0055
Carbon Disulfide	8260C	N	MG/KG	3500 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
Carbon Tetrachloride	8260C	N	MG/KG	2.9 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
Chlorobenzene	8260C	N	MG/KG	1300 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
Chloroform	8260C	N	MG/KG	1.4 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
cis-1,3-Dichloropropene	8260C	N	MG/KG	MDL	<0.00039	<0.00039	<0.024	<0.00045	<0.00043	<0.024	<0.00039	<0.00044	<0.00044
Dichlorodifluoromethane	8260C	N	MG/KG	370 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
Diethyl Ether	8260C	N	MG/KG	230000 MG/KG	<0.00098	<0.00096	<0.059	<0.0011	<0.0011	<0.06	<0.00098	<0.0011	<0.0011
Ethyl Acetate	8260C	N	MG/KG	2600 MG/KG	<0.00098	<0.00096	<0.059	<0.0011	<0.0011	<0.06	<0.00098	<0.0011	<0.0011
Ethyl Chloride	8260C	N	MG/KG	57000 MG/KG	<0.00098	<0.00096	<0.059	<0.0011	<0.0011	<0.06	<0.00098	<0.0011	<0.0011
Ethyl Methacrylate	8260C	N	MG/KG	7600 MG/KG	<0.00098	<0.00096	<0.059	<0.0011	<0.0011	<0.06	<0.00098	<0.0011	<0.0011
Ethylbenzene	8260C	N	MG/KG	25 MG/KG	<0.00039	<0.00039	<0.024	<0.00045	<0.00043	<0.024	<0.00039	<0.00044	<0.00044
Iodomethane	8260C	N	MG/KG	MDL	<0.00039	<0.00039	<0.024	<0.00045	<0.00043	<0.024	<0.00039	<0.00044	<0.00044
Isobutyl Alcohol	8015B	N	MG/KG	350000 MG/KG	<0.2	<0.2	<0.19	<0.2	<0.21	<0.2	<0.19	<0.2	<0.21
Methacrylonitrile	8260C	N	MG/KG	100 MG/KG	<0.0078	<0.0077	<0.47	<0.0089	<0.0087	<0.48	<0.0078	<0.0089	<0.0088
Methanol	8015B	N	MG/KG	1200000 MG/KG	<0.24	<0.23	<0.22	<0.24	<0.24	<0.24	<0.22	<0.23	<0.24
Methyl Bromide	8260C	N	MG/KG	30 MG/KG	<0.00068	<0.00068	<0.041	<0.00078	<0.00076	<0.042	<0.00068	<0.00077	<0.00077
Methyl Chloride	8260C	N	MG/KG	460 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
Methyl Ethyl Ketone	8260C	N	MG/KG	190000 MG/KG	<0.0020	<0.0019	<0.12	<0.0022	<0.0022	<0.12	<0.0020	<0.0022	<0.0022
Methyl Isobutyl Ketone	8260C	N	MG/KG	140000 MG/KG	<0.00098	<0.00096	<0.059	<0.0011	<0.0011	<0.06	<0.00098	<0.0011	<0.0011
Methyl Methacrylate	8260C	N	MG/KG	19000 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
Methylene Bromide	8260C	N	MG/KG	99 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
Methylene Chloride	8260C	N	MG/KG	1000 MG/KG	<0.0020	<0.0019	<0.12	<0.0022	<0.0022	<0.12	<0.0020	<0.0022	<0.0022
N-Butanol	8015B	N	MG/KG	120000.00 MG/KG	<0.24	<0.23	<0.22	<0.24	<0.24	<0.24	<0.22	<0.23	<0.24
Pentachloroethane	8260C	N	MG/KG	36 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
Tetrachloroethene	8260C	N	MG/KG	100 MG/KG	<0.00049	<0.00048	**0.043 J**	<0.00056	<0.00054	**0.031 J**	<0.00049	<0.00055	**0.00068 J**
Toluene	8260C	N	MG/KG	47000 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
trans-1,2-Dichloroethene	8260C	N	MG/KG	23000 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
trans-1,3-Dichloropropene	8260C	N	MG/KG	MDL	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	<0.00055
Trichloroethene	8260C	N	MG/KG	6 MG/KG	<0.00049	<0.00048	<0.03	<0.00056	<0.00054	<0.03	<0.00049	<0.00055	**0.0010 J**
Trichlorofluoromethane	8260C	N	MG/KG	350000 MG/KG	<0.00068	<0.00068	<0.041	<0.00078	<0.00076	<0.042	<0.00068	<0.00077	<0.00077
Vinyl Chloride	8260C	N	MG/KG	1.7 MG/KG	<0.00059	<0.00058	<0.035	<0.00067	<0.00065	<0.036	<0.00059	<0.00066	<0.00066
Xylenes	8260C	N	MG/KG	2500 MG/KG	<0.0014	<0.0014	<0.083	<0.0016	<0.0015	<0.084	<0.0014	<0.0015	<0.0015
1,2,4,5-Tetrachlorobenzene	8270D	N	MG/KG	350 MG/KG	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
1,2,4-Trichlorobenzene	8260C	N	MG/KG	110 MG/KG	<0.0049	<0.0048	<0.3	<0.0056	<0.0054	<0.3	<0.0049	<0.0055	<0.0055

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-24-24-0-S	PAD-24-S-CTR	PAD-A-S-CTR	PAD-A-SE	PAD-A-SUMP	PAD-AB-S	PAD-B-NW	PAD-B-S-CTR	PAD-B-SUMP
Field Sample ID					PAD-24-24-0-S-0-0.5	PAD-24-S-CTR-0-0.5	PAD-A-S-CTR-0-0.5	PAD-A-SE-0-0.5	PAD-A-SUMP-2-3	PAD-AB-S-0-0.5	PAD-B-NW-0-0.5	PAD-B-S-CTR-0-0.5	PAD-B-SUMP-1.5-2
Date Sampled					08/28/2020	08/28/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose					FS	FS	FS	FS	FS	FS	FS	FS	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	2 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1.5 - 2
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,2,4-Trichlorobenzene	8270D	N	MG/KG	110 MG/KG	**0.045 J**	**0.056 J**	<0.026	<0.027	<0.028	<0.028	<0.025	<0.027	<0.028
1,4-Dioxane	8260C	N	MG/KG	24 MG/KG	<0.036	<0.036	<2.2	<0.041	<0.04	<2.2	<0.036	<0.041	<0.041
2,4,5-Trichlorophenol	8270D	N	MG/KG	82000 MG/KG	<0.035	<0.035	<0.033	<0.035	<0.036	<0.036	<0.033	<0.034	<0.036
2,4,6-Trichlorophenol	8270D	N	MG/KG	210 MG/KG	<0.031	<0.031	<0.029	<0.031	<0.032	<0.032	<0.029	<0.031	<0.032
2,4-Dichlorophenol	8270D	N	MG/KG	2500 MG/KG	<0.024	<0.023	<0.022	<0.023	<0.024	<0.024	<0.022	<0.023	<0.024
2,4-Dimethylphenol	8270D	N	MG/KG	16000 MG/KG	<0.035	<0.035	<0.033	<0.035	<0.036	<0.036	<0.033	<0.034	**0.09**
2,4-Dinitrophenol	8270D	N	MG/KG	1600 MG/KG	<0.39	<0.38	<0.37	<0.39	<0.4	<0.4	<0.36	<0.38	<0.4
2,4-Dinitrotoluene	8270D	N	MG/KG	7.4 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
2,6-Dichlorophenol	8270D	N	MG/KG	MDL	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
2,6-Dinitrotoluene	8270D	N	MG/KG	1.5 MG/KG	<0.027	<0.027	<0.026	<0.027	<0.028	<0.028	<0.025	<0.027	<0.028
2-Acetylaminofluorene	8270D	N	MG/KG	0.6(**) MG/KG	<0.12	<0.12	<0.11	<0.12	<0.12	<0.12	<0.11	<0.11	<0.12
2-Chloronaphthalene	8270D	N	MG/KG	60000 MG/KG	<0.0079	<0.0077	<0.0074	<0.0078	<0.0080	<0.0080	<0.0073	<0.0076	<0.0081
2-Chlorophenol	8270D	N	MG/KG	5800 MG/KG	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
2-Methylphenol (O-Cresol)	8270D	N	MG/KG	41000 MG/KG	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	**0.052 J**
3-Methylcholanthrene	8270D	N	MG/KG	0.1(**) MG/KG	<0.031	<0.031	<0.029 UJ	<0.031 UJ	<0.032 UJ	<0.032 UJ	<0.029 UJ	<0.031 UJ	<0.032 UJ
Chlorobenzenamine)	8270D	N	MG/KG	23 MG/KG	<0.2	<0.19	<0.18	<0.19	<0.2	<0.2	<0.18	<0.19	<0.2
4-Bromophenyl Phenyl Ether	8270D	N	MG/KG	MDL	<0.027	<0.027	<0.026	<0.027	<0.028	<0.028	<0.025	<0.027	<0.028
4-Chloro-3-Methylphenol	8270D	N	MG/KG	82000 MG/KG	<0.027	<0.027	<0.026	<0.027	<0.028	<0.028	<0.025	<0.027	<0.028
4-Chloroaniline	8270D	N	MG/KG	11 MG/KG	<0.039	<0.038	<0.037	<0.039	<0.04	<0.04	<0.036	<0.038	<0.04
4-Methylphenol (P-Cresol)	8270D	N	MG/KG	82000 MG/KG	<0.02	**0.022 J**	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	**0.14**
4-Nitroaniline	8270D	N	MG/KG	110 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
4-Nitrophenol	8270D	N	MG/KG	MDL	<0.2	<0.19	<0.18	<0.19	<0.2	<0.2	<0.18	<0.19	<0.2
5-Nitro-Ortho-Toluidine	8270D	N	MG/KG	260 MG/KG	<0.2	<0.19	<0.18	<0.19	<0.2	<0.2	<0.18	<0.19	<0.2
Acetophenone	8270D	N	MG/KG	120000.00 MG/KG	**0.027 J**	**0.026 J**	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
Aniline	8270D	N	MG/KG	400 MG/KG	<0.2	<0.19	<0.18	<0.19	<0.2	<0.2	<0.18	<0.19	<0.2
Anthracene	8270D	N	MG/KG	230000 MG/KG	**0.013 J**	**0.035**	**0.096**	**0.088**	**0.0083 J**	**0.037**	**0.0063 J**	**0.015 J**	**3.3**
Benzo(A)Anthracene	8270D	N	MG/KG	21 MG/KG	**0.029**	**0.073**	**0.19**	**0.28**	**0.014 J**	**0.12**	**0.021**	**0.06**	**6.1**
Benzo[A]Pyrene	8270D	N	MG/KG	2.1 MG/KG	**0.036**	**0.091**	**0.19**	**0.25**	**0.012 J**	**0.12**	**0.022**	**0.061**	**4.6**
Bis(2-Chloro-1-Methylethyl) Ether(1)	8270D	N	MG/KG	MDL	<0.024	<0.023	<0.022	<0.023	<0.024	<0.024	<0.022	<0.023	<0.024
Bis(2-Chloroethoxy)Methane	8270D	N	MG/KG	2500 MG/KG	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
Bis(2-Chloroethyl)Ether	8270D	N	MG/KG	1 MG/KG	<0.027	<0.027	<0.026	<0.027	<0.028	<0.028	<0.025	<0.027	<0.028
Bis(2-Ethylhexyl)Phthalate	8270D	N	MG/KG	160 MG/KG	<0.079	**0.092 J**	<0.074	<0.078	**0.086 J**	<0.08	<0.073	<0.076	<0.081
Butyl Benzyl Phthalate	8270D	N	MG/KG	1200 MG/KG	**0.1 J**	**0.3**	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Chrysene	8270D	N	MG/KG	2100 MG/KG	**0.038**	**0.11**	**0.31**	**0.29**	**0.016 J**	**0.15**	**0.024**	**0.069**	**5.6**
Dibenz(A,H)Anthracene	8270D	N	MG/KG	2.1 MG/KG	<0.0079	**0.025**	**0.04**	**0.054**	<0.0080	**0.028**	<0.0073	<0.0076	**0.77**
Diethyl Phthalate	8270D	N	MG/KG	660000 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Dimethyl Phthalate	8270D	N	MG/KG	660000(*) MG/KG	**0.13 J**	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Di-N-Butyl Phthalate	8270D	N	MG/KG	82000 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Fluoranthene	8270D	N	MG/KG	30000 MG/KG	**0.05**	**0.15**	**0.67**	**0.59**	**0.031**	**0.23**	**0.041**	**0.12**	**15**
Hexachlorobenzene	8270D	N	MG/KG	0.96 MG/KG	<0.0079	<0.0077	<0.0074	<0.0078	<0.0080	<0.0080	<0.0073	<0.0076	<0.0081
Hexachlorobutadiene	8270D	N	MG/KG	5.3 MG/KG	<0.043	<0.042	<0.041	<0.043	<0.044	<0.044	<0.04	<0.042	<0.044
Hexachlorocyclopentadiene	8270D	N	MG/KG	7.5 MG/KG	<0.24	<0.23	<0.22	<0.23	<0.24	<0.24	<0.22	<0.23	<0.24
Hexachloroethane	8270D	N	MG/KG	8 MG/KG	<0.039	<0.038	<0.037	<0.039	<0.04	<0.04	<0.036	<0.038	<0.04
Hexachloropropylene	8270D	N	MG/KG	MDL	<0.12	<0.12	<0.11	<0.12	<0.12	<0.12	<0.11	<0.11	<0.12
Indeno (1,2,3-CD) Pyrene	8270D	N	MG/KG	21 MG/KG	**0.028**	**0.078**	**0.15**	**0.15**	**0.0084 J**	**0.074**	**0.015 J**	**0.042**	**2.5**
Isosafrole	8270D	N	MG/KG	MDL	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Methapyrilene	8270D	N	MG/KG	MDL	<2	<1.9	<1.8	<1.9	<2	<2	<1.8	<1.9	<2
Naphthalene	8270D	N	MG/KG	17 MG/KG	**0.011 J**	**0.037**	**0.027**	**0.045**	**0.012 J**	**0.027**	<0.0073	**0.037**	**1.2**
N-Dioctyl Phthalate	8270D	N	MG/KG	8200 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Nitrobenzene	8270D	N	MG/KG	22 MG/KG	<0.031	**0.05 J**	<0.029	<0.031	<0.032	<0.032	<0.029	<0.031	<0.032
N-Nitrosodiethylamine	8270D	N	MG/KG	0.015(**) MG/KG	<0.024	<0.023	<0.022	<0.023	<0.024	<0.024	<0.022	<0.023	<0.024
N-Nitroso-Di-N-Butylamine	8270D	N	MG/KG	0.46(**) MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-24-24-0-S	PAD-24-S-CTR	PAD-A-S-CTR	PAD-A-SE	PAD-A-SUMP	PAD-AB-S	PAD-B-NW	PAD-B-S-CTR	PAD-B-SUMP
Field Sample ID					PAD-24-24-0-S-0-0.5	PAD-24-S-CTR-0-0.5	PAD-A-S-CTR-0-0.5	PAD-A-SE-0-0.5	PAD-A-SUMP-2-3	PAD-AB-S-0-0.5	PAD-B-NW-0-0.5	PAD-B-S-CTR-0-0.5	PAD-B-SUMP-1.5-2
Date Sampled					08/28/2020	08/28/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose					FS	FS	FS	FS	FS	FS	FS	FS	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	2 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1.5 - 2
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
N-Nitrosodi-N-Propylamine	8270D	N	MG/KG	0.33 MG/KG	<0.027	<0.027	<0.026	<0.027	<0.028	<0.028	<0.025	<0.027	<0.028
N-Nitrosopiperidine	8270D	N	MG/KG	0.24 MG/KG	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
N-Nitrosopyrrolidine	8270D	N	MG/KG	1.1 MG/KG	<0.027	<0.027	<0.026	<0.027	<0.028	<0.028	<0.025	<0.027	<0.028
Pentachlorobenzene	8270D	N	MG/KG	930 MG/KG	<0.024	<0.023	<0.022	<0.023	<0.024	<0.024	<0.022	<0.023	<0.024
Pentachloronitrobenzene	8270D	N	MG/KG	13 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Pentachlorophenol	8270D	N	MG/KG	4 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Phenacetin	8270D	N	MG/KG	1000 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Phenanthrene	8270D	N	MG/KG	230000(*) MG/KG	**0.024**	**0.098**	**0.31**	**0.34**	**0.033**	**0.12**	**0.023**	**0.06**	**16**
Phenol	8270D	N	MG/KG	250000 MG/KG	<0.02	<0.019	<0.018	<0.019	<0.02	<0.02	<0.018	<0.019	<0.02
Pyrene	8270D	N	MG/KG	23000 MG/KG	**0.049**	**0.17**	**0.51**	**0.47**	**0.028**	**0.19**	**0.037**	**0.12**	**11**
Pyridine	8270D	N	MG/KG	1200 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Safrole	8270D	N	MG/KG	10 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
4,4'-DDD	8081B	N	MG/KG	9.6 MG/KG	**0.012 J**	<0.0019	**0.00040 J**	<0.0077	<0.00040	<0.00040	<0.00036	**0.00043 J**	<0.00040
4,4'-DDE	8081B	N	MG/KG	9.3 MG/KG	**0.0097 J**	**0.03**	**0.042 J**	**0.24**	**0.0087**	**0.045 J**	<0.00036	**0.012**	**0.0057**
4,4'-DDT	8081B	N	MG/KG	8.5 MG/KG	**0.038 J**	**0.075**	**0.025 J**	**0.063**	**0.0024**	**0.015 J**	<0.00086	**0.0056**	<0.00095
Alpha Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	**0.0013 J**	**0.0046 J**	**0.0032 J**	<0.0040	<0.00021	<0.0022	<0.00019	<0.00019	**0.01**
Alpha-BHC	8081B	N	MG/KG	0.36 MG/KG	<0.00020	<0.00097	<0.00019	<0.0040	<0.00021	<0.00020	<0.00019	<0.00019	<0.00020
beta-BHC	8081B	N	MG/KG	1.3 MG/KG	<0.00052	<0.0025	<0.00049	<0.01	<0.00053	<0.00053	<0.00048	<0.00050	<0.00053
Carbaryl	8318	N	MG/KG	82000.00 MG/KG	<0.059	<0.058	<0.056	<0.059	<0.061	<0.06	<0.055	<0.057	<0.061
Carbofuran	8318	N	MG/KG	4100.00 MG/KG	<0.059	<0.058	<0.056	<0.059	<0.061	<0.06	<0.055	<0.057	<0.061
Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	<0.0047	<0.023	<0.0044	<0.093	<0.0048	<0.0048	<0.0044	<0.0046	**0.19**
delta-BHC	8081B	N	MG/KG	1.3(*) MG/KG	<0.00053	<0.0026	<0.00050	<0.01	<0.00054	<0.00054	<0.00049	<0.00051	<0.00054
Endosulfan I	8081B	N	MG/KG	7000(*) MG/KG	**0.0039 J**	**0.0043 J**	<0.00024	<0.0051	<0.00027	<0.00026	<0.00024	<0.00025	<0.00038
Endosulfan II	8081B	N	MG/KG	7000(*) MG/KG	<0.0065	**0.017**	**0.0012 J**	<0.026	<0.0013	<0.0013	<0.0012	<0.0013	<0.0013
Sum Endosulfan I + Endosulfan II	8081B	N	MG/KG	7000(*) MG/KG	0.0039 J	**0.0213 J**	**0.0012 J**	<0.0311	<0.00157	<0.00156	<0.00144	<0.00155	<0.00168
Endosulfan Sulfate	8081B	N	MG/KG	4900 MG/KG	**0.0024 J**	<0.0019	<0.00036	<0.0077	<0.00040	<0.00040	<0.00036	<0.00038	**0.00056 J**
Endrin	8081B	N	MG/KG	250 MG/KG	**0.015 J**	<0.0039	<0.00075	<0.016	<0.00082	<0.00082	<0.00074	<0.00077	<0.00082
Gamma Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	**0.0079 J**	**0.014**	**0.00053 J**	<0.0058	<0.00030	**0.0015 J**	<0.00027	<0.00028	**0.027**
Heptachlor	8081B	N	MG/KG	0.63 MG/KG	**0.0016 J**	<0.0018	<0.00034	<0.0072	<0.00037	<0.00037	<0.00034	<0.00035	<0.00037
Heptachlor Epoxide	8081B	N	MG/KG	0.33 MG/KG	**0.0075 J**	**0.0074**	**0.00024 J**	<0.0040	<0.00021	<0.00020	<0.00019	<0.00019	**0.0069**
Lindane	8081B	N	MG/KG	2.5 MG/KG	<0.00025	<0.0012	**0.00037 J**	<0.0049	<0.00025	<0.00025	<0.00023	<0.00024	**0.00040 J**
Methomyl	8318	N	MG/KG	21000 MG/KG	<0.059	<0.058	<0.056	<0.059	<0.061	<0.06	<0.055	<0.057	<0.061
Methoxychlor	8081B	N	MG/KG	4100 MG/KG	<0.0021	<0.01	**0.012 J**	<0.042	<0.0022	**0.0029 J**	<0.0020	<0.0020	<0.0022
Toxaphene	8081B	N	MG/KG	2.1 MG/KG	<0.017	<0.08	<0.015	<0.33	<0.017	<0.017	<0.015	<0.016	<0.017
2,4-Dichlorophenoxyacetic Acid	8151A	N	MG/KG	9600 MG/KG	<0.014 UJ	<0.014 UJ	<0.013 R	<0.014 UJ	<0.015 UJ	<0.014 UJ	<0.013 UJ	<0.014 UJ	<0.014 UJ
Methiocarb	8318	N	MG/KG	MDL	<0.059	<0.058	<0.056	<0.059	<0.061	<0.06	<0.055	<0.057	**0.066 J**
Oxamyl	8318	N	MG/KG	21000 MG/KG	<0.059	<0.058	<0.056	<0.059	<0.061	<0.06	<0.055	<0.057	<0.061
Pronamide	8270D	N	MG/KG	62000 MG/KG	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08	<0.073	<0.076	<0.081
Silvex	8151A	N	MG/KG	6600 MG/KG	<0.00089	<0.00086	<0.00083 R	<0.00088 UJ	<0.00091 UJ	<0.00090 UJ	<0.00081 UJ	<0.00086 UJ	<0.00090 UJ
Arsenic	6020A	N	MG/KG	11(***) MG/KG	**25**	**20 J**	**7.2 J**	**5.5 J**	**5.2 J**	**9.5 J**	**1.5 J**	**5.9 J**	**7.6 J**
Barium	6020A	N	MG/KG	220000.00 MG/KG	**160**	**220**	**180**	**110**	**110**	**190**	**44**	**170**	**220**
Cadmium	6020A	N	MG/KG	980 MG/KG	**1.1**	**1.3**	**1.2**	**1.2**	<0.11	**1.4**	**0.19**	**0.25**	**0.53**
Calcium	6020A	N	MG/KG	2500000(*) MG/KG	**4100**	**4300**	**1800 J**	**1500 J**	**2200 J**	**1500 J**	**800 J**	**1200 J**	**2900 J**
Chromium	6020A	N	MG/KG	214(***) MG/KG	**50**	**73 J**	**63**	**58**	**94**	**81**	**15**	**52**	**55**
Lead	6020A	N	MG/KG	800 MG/KG	**84**	**120**	**150**	**110**	**44**	**86**	**8.3**	**140**	**120**
Mercury	7471A	N	MG/KG	46 MG/KG	**4.0**	**3.4**	**1.2**	**0.70**	**0.14**	**0.81**	**0.057 J**	**1.1**	**2.7**
Nickel	6020A	N	MG/KG	22000 MG/KG	**35**	**42**	**39 J**	**27 J**	**35 J**	**28 J**	**7.5 J**	**24 J**	**30 J**
Selenium	6020A	N	MG/KG	5800 MG/KG	**0.45 J**	**0.61 J**	**0.41 J**	**0.49 J**	**0.30 J**	**0.47 J**	<0.23	**0.51 J**	**0.30 J**
Silver	6020A	N	MG/KG	5800 MG/KG	**0.90**	**1.9**	**0.79**	**0.87**	<0.089	**0.91**	<0.070	**0.34**	**0.20 J**
Amenable Cyanide	9012A	N	MG/KG	150(*) MG/KG	<0.21 UJ	<0.21 UJ	<0.20	<0.21	<0.22	<0.22	<0.20	<0.21	<0.22
Cyanide	9012A	N	MG/KG	150 MG/KG	<0.21 UJ	<0.21 UJ	<0.2	<0.2	<0.22	<0.22	<0.19	<0.2	<0.21

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-B-SW	PAD-B-W-CTR	PAD-G-E-CTR	PAD-G-E-NE	PAD-G-E-SE	PAD-G-S-CTR	PAD-G-S-SE	PAD-G-S-SW	PAD-G-S-SW
Field Sample ID					PAD-B-SW-0-0.5	PAD-B-W-CTR-0-0.5	PAD-G-E-CTR-0-0.5	PAD-G-E-NE-0-0.5	PAD-G-E-SE-0-0.5	PAD-G-S-CTR-0-0.5	PAD-G-S-SE-0-0.5	PAD-G-S-SW-0-0.5-D	PAD-G-S-SW-0-0.5
Date Sampled					08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose					FS	FS	FS	FS	FS	FS	FS	DUP	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	8260C	N	MG/KG	8.8 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
1,1,1-Trichloroethane	8260C	N	MG/KG	36000 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
1,1,2,2-Tetrachloroethane	8260C	N	MG/KG	2.7 MG/KG	<0.00042	<0.00039	<0.00041	<0.00038	<0.00047	<0.00056	<0.00045	<0.00036	<0.00040
1,1,2-Trichloroethane	8260C	N	MG/KG	5 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
1,1,2-Trichlorotrifluoroethane	8260C	N	MG/KG	28000 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
1,1-Dichloroethane	8260C	N	MG/KG	16 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
1,1-Dichloroethene	8260C	N	MG/KG	1000 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
1,2-Dibromo-3-Chloropropane	8260C	N	MG/KG	0.06 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
1,2-Dibromoethane (EDB)	8260C	N	MG/KG	0.16 MG/KG	<0.00042	<0.00039	<0.00041	<0.00038	<0.00047	<0.00056	<0.00045	<0.00036	<0.00040
1,2-Dichlorobenzene	8270D	N	MG/KG	9300 MG/KG	**0.023 J**	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
1,2-Dichloroethane	8260C	N	MG/KG	2 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
1,2-Dichloropropane	8260C	N	MG/KG	11 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
1,3-Dichlorobenzene	8270D	N	MG/KG	MDL	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
1,4-Dichlorobenzene	8270D	N	MG/KG	11 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
Acetone	8260C	N	MG/KG	670000 MG/KG	<0.0063	**0.01 J**	**0.018 J**	<0.0057	**0.21**	**0.16**	<0.0067	**0.046 J**	**0.14 J**
Acrylonitrile	8260C	N	MG/KG	1.1 MG/KG	<0.00084	<0.00077	<0.00081	<0.00076	<0.00095	<0.0011	<0.00090	<0.00072	<0.00081
Benzene	8260C	N	MG/KG	5.1 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Bromoform	8260C	N	MG/KG	86 MG/KG	<0.0052	<0.0048	<0.0051	<0.0047	<0.0059	<0.0071	<0.0056	<0.0045	<0.0050
Carbon Disulfide	8260C	N	MG/KG	3500 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
Carbon Tetrachloride	8260C	N	MG/KG	2.9 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Chlorobenzene	8260C	N	MG/KG	1300 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Chloroform	8260C	N	MG/KG	1.4 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
cis-1,3-Dichloropropene	8260C	N	MG/KG	MDL	<0.00042	<0.00039	<0.00041	<0.00038	<0.00047	<0.00056	<0.00045	<0.00036	<0.00040
Dichlorodifluoromethane	8260C	N	MG/KG	370 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
Diethyl Ether	8260C	N	MG/KG	230000 MG/KG	<0.0010	<0.00096	<0.0010	<0.00094	<0.0012	<0.0014	<0.0011	<0.00091	<0.0010
Ethyl Acetate	8260C	N	MG/KG	2600 MG/KG	<0.0010	<0.00096	<0.0010	<0.00094	<0.0012	<0.0014	<0.0011	<0.00091	<0.0010
Ethyl Chloride	8260C	N	MG/KG	57000 MG/KG	<0.0010	<0.00096	<0.0010	<0.00094	<0.0012	<0.0014	<0.0011	<0.00091	<0.0010
Ethyl Methacrylate	8260C	N	MG/KG	7600 MG/KG	<0.0010	<0.00096	<0.0010	<0.00094	<0.0012	<0.0014	<0.0011	<0.00091	<0.0010 UJ
Ethylbenzene	8260C	N	MG/KG	25 MG/KG	<0.00042	<0.00039	<0.00041	<0.00038	<0.00047	<0.00056	<0.00045	<0.00036	<0.00040
Iodomethane	8260C	N	MG/KG	MDL	<0.00042	<0.00039	<0.00041	<0.00038	<0.00047	<0.00056	<0.00045	<0.00036	<0.00040
Isobutyl Alcohol	8015B	N	MG/KG	350000 MG/KG	<0.21	<0.2	<0.19	<0.18	<0.2	<0.2	<0.19	<0.2	<0.2
Methacrylonitrile	8260C	N	MG/KG	100 MG/KG	<0.0084	<0.0077	<0.0081	<0.0076	<0.0095	<0.011	<0.0090	<0.0072	<0.0081
Methanol	8015B	N	MG/KG	1200000 MG/KG	<0.24	<0.23	<0.22	<0.21	<0.24	<0.23	<0.23	<0.23	<0.24
Methyl Bromide	8260C	N	MG/KG	30 MG/KG	<0.00073	<0.00067	<0.00071	<0.00066	<0.00083	<0.00099	<0.00078	<0.00063	<0.00071
Methyl Chloride	8260C	N	MG/KG	460 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
Methyl Ethyl Ketone	8260C	N	MG/KG	190000 MG/KG	<0.0021	<0.0019	<0.0020	<0.0019	<0.0024	<0.0028	<0.0022	<0.0018	<0.0020
Methyl Isobutyl Ketone	8260C	N	MG/KG	140000 MG/KG	<0.0010	<0.00096	<0.0010	<0.00094	<0.0012	<0.0014	<0.0011	<0.00091	**0.0013 J**
Methyl Methacrylate	8260C	N	MG/KG	19000 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Methylene Bromide	8260C	N	MG/KG	99 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Methylene Chloride	8260C	N	MG/KG	1000 MG/KG	<0.0021	<0.0019	<0.0020	<0.0019	<0.0024	<0.0028	<0.0022	<0.0018	<0.0020
N-Butanol	8015B	N	MG/KG	120000.00 MG/KG	<0.24	<0.23	<0.22	<0.21	<0.24	<0.23	<0.23	<0.23	<0.24
Pentachloroethane	8260C	N	MG/KG	36 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Tetrachloroethene	8260C	N	MG/KG	100 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Toluene	8260C	N	MG/KG	47000 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
trans-1,2-Dichloroethene	8260C	N	MG/KG	23000 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
trans-1,3-Dichloropropene	8260C	N	MG/KG	MDL	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Trichloroethene	8260C	N	MG/KG	6 MG/KG	<0.00052	<0.00048	<0.00051	<0.00047	<0.00059	<0.00071	<0.00056	<0.00045	<0.00050
Trichlorofluoromethane	8260C	N	MG/KG	350000 MG/KG	<0.00073	<0.00067	<0.00071	<0.00066	<0.00083	<0.00099	<0.00078	<0.00063	<0.00071
Vinyl Chloride	8260C	N	MG/KG	1.7 MG/KG	<0.00063	<0.00058	<0.00061	<0.00057	<0.00071	<0.00085	<0.00067	<0.00054	<0.00060
Xylenes	8260C	N	MG/KG	2500 MG/KG	<0.0015	<0.0013	<0.0014	<0.0013	<0.0017	<0.0020	<0.0016	<0.0013	<0.0014
1,2,4,5-Tetrachlorobenzene	8270D	N	MG/KG	350 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
1,2,4-Trichlorobenzene	8260C	N	MG/KG	110 MG/KG	<0.0052	<0.0048	<0.0051	<0.0047	<0.0059	<0.0071	<0.0056	<0.0045	<0.0050

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-B-SW	PAD-B-W-CTR	PAD-G-E-CTR	PAD-G-E-NE	PAD-G-E-SE	PAD-G-S-CTR	PAD-G-S-SE	PAD-G-S-SW	PAD-G-S-SW
Field Sample ID					PAD-B-SW-0-0.5	PAD-B-W-CTR-0-0.5	PAD-G-E-CTR-0-0.5	PAD-G-E-NE-0-0.5	PAD-G-E-SE-0-0.5	PAD-G-S-CTR-0-0.5	PAD-G-S-SE-0-0.5	PAD-G-S-SW-0-0.5-D	PAD-G-S-SW-0-0.5
Date Sampled					08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose					FS	FS	FS	FS	FS	FS	FS	DUP	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,2,4-Trichlorobenzene	8270D	N	MG/KG	110 MG/KG	<0.028	<0.027	<0.26	<0.12	<0.28	<0.27	<0.26	<0.13	<0.027
1,4-Dioxane	8260C	N	MG/KG	24 MG/KG	<0.039	<0.036	<0.038	<0.035	<0.044	<0.052	<0.041	<0.034	<0.037
2,4,5-Trichlorophenol	8270D	N	MG/KG	82000 MG/KG	<0.036	<0.035	<0.33	<0.16	<0.36	<0.35	<0.33	<0.17	<0.035 UJ
2,4,6-Trichlorophenol	8270D	N	MG/KG	210 MG/KG	<0.032	<0.031	<0.29	<0.14	<0.32	<0.31	<0.3	<0.15	<0.031 UJ
2,4-Dichlorophenol	8270D	N	MG/KG	2500 MG/KG	<0.024	<0.023	<0.22	<0.1	<0.24	<0.23	<0.22	<0.12	<0.023
2,4-Dimethylphenol	8270D	N	MG/KG	16000 MG/KG	<0.036	<0.035	<0.33	<0.16	<0.36	<0.35	<0.33	<0.17	<0.035
2,4-Dinitrophenol	8270D	N	MG/KG	1600 MG/KG	<0.4	<0.39	<3.6	<1.7	<4	<3.8	<3.7	<1.9	<0.39 UJ
2,4-Dinitrotoluene	8270D	N	MG/KG	7.4 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
2,6-Dichlorophenol	8270D	N	MG/KG	MDL	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
2,6-Dinitrotoluene	8270D	N	MG/KG	1.5 MG/KG	<0.028	<0.027	<0.26	<0.12	<0.28	<0.27	<0.26	<0.13	<0.027
2-Acetylaminofluorene	8270D	N	MG/KG	0.6(**) MG/KG	<0.12	<0.12	<1.1	<0.52	<1.2	<1.2	<1.1	<0.58	<0.12
2-Chloronaphthalene	8270D	N	MG/KG	60000 MG/KG	<0.0080	<0.0077	<0.073	<0.035	<0.079	<0.077	<0.074	<0.038	<0.0078
2-Chlorophenol	8270D	N	MG/KG	5800 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
2-Methylphenol (O-Cresol)	8270D	N	MG/KG	41000 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
3-Methylcholanthrene	8270D	N	MG/KG	0.1(**) MG/KG	<0.032 UJ	<0.031 UJ	<0.29 UJ	<0.14 UJ	<0.32 UJ	<0.31 UJ	<0.3 UJ	<0.15 UJ	<0.031 UJ
Chlorobenzenamine)	8270D	N	MG/KG	23 MG/KG	<0.2	<0.19	<1.8	<0.87	<2	<1.9	<1.8	<0.96	<0.2
4-Bromophenyl Phenyl Ether	8270D	N	MG/KG	MDL	<0.028	<0.027	<0.26	<0.12	<0.28	<0.27	<0.26	<0.13	<0.027
4-Chloro-3-Methylphenol	8270D	N	MG/KG	82000 MG/KG	<0.028	<0.027	<0.26	<0.12	<0.28	<0.27	<0.26	<0.13	<0.027
4-Chloroaniline	8270D	N	MG/KG	11 MG/KG	<0.04	<0.039	<0.36	<0.17	<0.4	<0.38	<0.37	<0.19	<0.039
4-Methylphenol (P-Cresol)	8270D	N	MG/KG	82000 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
4-Nitroaniline	8270D	N	MG/KG	110 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
4-Nitrophenol	8270D	N	MG/KG	MDL	<0.2	<0.19	<1.8	<0.87	<2	<1.9	<1.8	<0.96	<0.2 R
5-Nitro-Ortho-Toluidine	8270D	N	MG/KG	260 MG/KG	<0.2	<0.19	<1.8	<0.87	<2	<1.9	<1.8	<0.96	<0.2
Acetophenone	8270D	N	MG/KG	120000.00 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	**0.19 J**	<0.18	<0.096	<0.02
Aniline	8270D	N	MG/KG	400 MG/KG	<0.2	<0.19	<1.8	<0.87	<2	<1.9	<1.8	<0.96	<0.2 UJ
Anthracene	8270D	N	MG/KG	230000 MG/KG	**0.064**	**0.022**	<0.036	<0.017	<0.04	**0.077 J**	<0.037	**0.027 J**	**0.0070 J**
Benzo(A)Anthracene	8270D	N	MG/KG	21 MG/KG	**0.21**	**0.1**	**0.11 J**	**0.038 J**	**0.14 J**	**0.19**	**0.11 J**	**0.064 J**	**0.028 J**
Benzo[A]Pyrene	8270D	N	MG/KG	2.1 MG/KG	**0.2**	**0.12**	**0.16 J**	**0.048 J**	**0.24**	**0.26**	**0.19**	**0.082 J**	**0.028 J**
Bis(2-Chloro-1-Methylethyl) Ether(1)	8270D	N	MG/KG	MDL	<0.024	<0.023	<0.22	<0.1	<0.24	<0.23	<0.22	<0.12	<0.023
Bis(2-Chloroethoxy)Methane	8270D	N	MG/KG	2500 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
Bis(2-Chloroethyl)Ether	8270D	N	MG/KG	1 MG/KG	<0.028	<0.027	<0.26	<0.12	<0.28	<0.27	<0.26	<0.13	<0.027
Bis(2-Ethylhexyl)Phthalate	8270D	N	MG/KG	160 MG/KG	**0.16 J**	**0.14 J**	<0.73	<0.35	<0.79	**0.87 J**	<0.74	<0.38	<0.078
Butyl Benzyl Phthalate	8270D	N	MG/KG	1200 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Chrysene	8270D	N	MG/KG	2100 MG/KG	**0.23**	**0.13**	**0.21**	**0.05 J**	**0.3**	**0.35**	**0.23**	**0.081 J**	**0.031 J**
Dibenz(A,H)Anthracene	8270D	N	MG/KG	2.1 MG/KG	**0.046**	**0.027**	<0.073	<0.035	<0.079	<0.077	<0.074	<0.038	**0.0093 J**
Diethyl Phthalate	8270D	N	MG/KG	660000 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Dimethyl Phthalate	8270D	N	MG/KG	660000(*) MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078 UJ
Di-N-Butyl Phthalate	8270D	N	MG/KG	82000 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Fluoranthene	8270D	N	MG/KG	30000 MG/KG	**0.39**	**0.2**	**0.33**	**0.085 J**	**0.36**	**0.51**	**0.29**	**0.11 J**	**0.044 J**
Hexachlorobenzene	8270D	N	MG/KG	0.96 MG/KG	<0.0080	<0.0077	<0.073	<0.035	<0.079	<0.077	<0.074	<0.038	<0.0078
Hexachlorobutadiene	8270D	N	MG/KG	5.3 MG/KG	<0.044	<0.042	<0.4	<0.19	<0.44	<0.42	<0.41	<0.21	<0.043
Hexachlorocyclopentadiene	8270D	N	MG/KG	7.5 MG/KG	<0.24	<0.23	<2.2	<1	<2.4	<2.3	<2.2	<1.2	<0.23 R
Hexachloroethane	8270D	N	MG/KG	8 MG/KG	<0.04	<0.039	<0.36	<0.17	<0.4	<0.38	<0.37	<0.19	<0.039 UJ
Hexachloropropylene	8270D	N	MG/KG	MDL	<0.12	<0.12	<1.1	<0.52	<1.2	<1.2	<1.1	<0.58	<0.12
Indeno (1,2,3-CD) Pyrene	8270D	N	MG/KG	21 MG/KG	**0.15**	**0.096**	**0.16 J**	**0.055 J**	**0.24**	**0.27**	**0.21**	**0.089 J**	**0.025 J**
Isosafrole	8270D	N	MG/KG	MDL	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Methapyrilene	8270D	N	MG/KG	MDL	<2	<1.9	<18	<8.7	<20	<19	<18	<9.6	<2
Naphthalene	8270D	N	MG/KG	17 MG/KG	**0.042**	**0.035**	<0.073	<0.035	<0.079	**0.18 J**	<0.074	<0.038	<0.0078
N-Dioctyl Phthalate	8270D	N	MG/KG	8200 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Nitrobenzene	8270D	N	MG/KG	22 MG/KG	<0.032	<0.031	<0.29	<0.14	<0.32	<0.31	<0.3	<0.15	<0.031
N-Nitrosodiethylamine	8270D	N	MG/KG	0.015(**) MG/KG	<0.024	<0.023	<0.22	<0.1	<0.24	<0.23	<0.22	<0.12	<0.023
N-Nitroso-Di-N-Butylamine	8270D	N	MG/KG	0.46(**) MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-B-SW	PAD-B-W-CTR	PAD-G-E-CTR	PAD-G-E-NE	PAD-G-E-SE	PAD-G-S-CTR	PAD-G-S-SE	PAD-G-S-SW	PAD-G-S-SW
Field Sample ID					PAD-B-SW-0-0.5	PAD-B-W-CTR-0-0.5	PAD-G-E-CTR-0-0.5	PAD-G-E-NE-0-0.5	PAD-G-E-SE-0-0.5	PAD-G-S-CTR-0-0.5	PAD-G-S-SE-0-0.5	PAD-G-S-SW-0-0.5-D	PAD-G-S-SW-0-0.5
Date Sampled					08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose					FS	FS	FS	FS	FS	FS	FS	DUP	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
N-Nitrosodi-N-Propylamine	8270D	N	MG/KG	0.33 MG/KG	<0.028	<0.027	<0.26	<0.12	<0.28	<0.27	<0.26	<0.13	<0.027
N-Nitrosopiperidine	8270D	N	MG/KG	0.24 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
N-Nitrosopyrrolidine	8270D	N	MG/KG	1.1 MG/KG	<0.028	<0.027	<0.26	<0.12	<0.28	<0.27	<0.26	<0.13	<0.027
Pentachlorobenzene	8270D	N	MG/KG	930 MG/KG	<0.024	<0.023	<0.22	<0.1	<0.24	<0.23	<0.22	<0.12	<0.023
Pentachloronitrobenzene	8270D	N	MG/KG	13 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Pentachlorophenol	8270D	N	MG/KG	4 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078 UJ
Phenacetin	8270D	N	MG/KG	1000 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Phenanthrene	8270D	N	MG/KG	230000(*) MG/KG	**0.24**	**0.079**	**0.22**	**0.035 J**	**0.17 J**	**0.32**	**0.16 J**	**0.059 J**	**0.026**
Phenol	8270D	N	MG/KG	250000 MG/KG	<0.02	<0.019	<0.18	<0.087	<0.2	<0.19	<0.18	<0.096	<0.02
Pyrene	8270D	N	MG/KG	23000 MG/KG	**0.34**	**0.16**	**0.27**	**0.07 J**	**0.33**	**0.45**	**0.27**	**0.097 J**	**0.041 J**
Pyridine	8270D	N	MG/KG	1200 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Safrole	8270D	N	MG/KG	10 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
4,4'-DDD	8081B	N	MG/KG	9.6 MG/KG	**0.0023**	**0.0021**	<0.0018	<0.00035	<0.00039	<0.0019	<0.0018	<0.00038	<0.00039
4,4'-DDE	8081B	N	MG/KG	9.3 MG/KG	**0.02**	**0.0089**	<0.0018	<0.00035	**0.00077 J**	<0.0019	<0.0018	**0.00071 J**	<0.00039
4,4'-DDT	8081B	N	MG/KG	8.5 MG/KG	**0.0078**	**0.0011 J**	<0.0043	<0.00084	**0.0010 J**	<0.0045	<0.0044	<0.00092	<0.00093
Alpha Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	**0.00054 J**	**0.0013**	**0.0018 J**	**0.00079 J**	**0.0012**	<0.00097	<0.00094	**0.0096 J**	**0.0034 J**
Alpha-BHC	8081B	N	MG/KG	0.36 MG/KG	<0.00020	<0.00020	<0.00093	<0.00018	<0.00020	<0.00097	<0.00094	<0.00020	<0.00020
beta-BHC	8081B	N	MG/KG	1.3 MG/KG	<0.00053	<0.00051	<0.0024	<0.00047	<0.00052	<0.0025	<0.0024	<0.00051	<0.00052
Carbaryl	8318	N	MG/KG	82000.00 MG/KG	<0.06	<0.058	<0.055	<0.053	<0.059	<0.058	<0.056	<0.058	<0.059
Carbofuran	8318	N	MG/KG	4100.00 MG/KG	<0.06	<0.058	<0.055	<0.053	<0.059	<0.058	<0.056	<0.058	<0.059
Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	<0.0048	<0.0046	<0.022	**0.0088 J**	<0.0047	<0.023	<0.022	**0.062**	**0.025**
delta-BHC	8081B	N	MG/KG	1.3(*) MG/KG	<0.00054	<0.00052	<0.0024	<0.00048	<0.00053	<0.0026	<0.0025	<0.00052	<0.00053 UJ
Endosulfan I	8081B	N	MG/KG	7000(*) MG/KG	<0.00027	**0.00048 J**	<0.0012	<0.00023	<0.00026	<0.0013	<0.0012	**0.00059 J**	<0.00026 UJ
Endosulfan II	8081B	N	MG/KG	7000(*) MG/KG	<0.0013	<0.0013	<0.0060	<0.0012	<0.0013	<0.0063	<0.0061	<0.0013	<0.0013 UJ
Sum Endosulfan I + Endosulfan II	8081B	N	MG/KG	7000(*) MG/KG	<0.00157	0.00048 J	<0.0072	<0.00143	<0.00156	<0.0076	<0.0073	0.00059 J	<0.00156
Endosulfan Sulfate	8081B	N	MG/KG	4900 MG/KG	<0.00040	<0.00038	<0.0018	<0.00035	<0.00039	<0.0019	<0.0018	<0.00038	<0.00039
Endrin	8081B	N	MG/KG	250 MG/KG	<0.00082	<0.00079	<0.0037	<0.00072	<0.00081	<0.0039	<0.0038	<0.00079	<0.00080 UJ
Gamma Chlordane	8081B	N	MG/KG	7.7(*) MG/KG	**0.0011**	<0.0014	**0.0015 J**	**0.0013**	**0.0013**	<0.0014	<0.0014	**0.01 J**	**0.0038 J**
Heptachlor	8081B	N	MG/KG	0.63 MG/KG	<0.00037	<0.00036	<0.0017	<0.00033	**0.00049 J**	<0.0018	<0.0017	<0.00036	<0.00036
Heptachlor Epoxide	8081B	N	MG/KG	0.33 MG/KG	<0.00020	<0.00020	<0.00093	**0.00025 J**	<0.00020	<0.00097	<0.00094	**0.0017**	**0.00096 J**
Lindane	8081B	N	MG/KG	2.5 MG/KG	<0.00025	<0.00024	<0.0011	<0.00022	**0.00039 J**	<0.0012	<0.0012	<0.00024	<0.00025 UJ
Methomyl	8318	N	MG/KG	21000 MG/KG	<0.06	<0.058	<0.055	<0.053	<0.059	<0.058	<0.056	<0.058	<0.059
Methoxychlor	8081B	N	MG/KG	4100 MG/KG	<0.0022	<0.0021	<0.0098	<0.0019	<0.0021	<0.01	<0.01	<0.0021	<0.0021
Toxaphene	8081B	N	MG/KG	2.1 MG/KG	<0.017	<0.016	<0.076	<0.015	<0.017	<0.08	<0.078	<0.016	<0.016
2,4-Dichlorophenoxyacetic Acid	8151A	N	MG/KG	9600 MG/KG	<0.014 UJ	<0.014 UJ	<0.013 UJ	<0.013 UJ	<0.014 UJ	<0.014 UJ	<0.013 UJ	<0.014 UJ	<0.014 UJ
Methiocarb	8318	N	MG/KG	MDL	<0.06	<0.058	<0.055	<0.053	<0.059	<0.058	<0.056	<0.058	<0.059
Oxamyl	8318	N	MG/KG	21000 MG/KG	<0.06	<0.058	<0.055	<0.053	<0.059	<0.058	<0.056	<0.058	<0.059
Pronamide	8270D	N	MG/KG	62000 MG/KG	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
Silvex	8151A	N	MG/KG	6600 MG/KG	<0.00090 UJ	<0.00086 UJ	<0.00082 UJ	<0.00079 UJ	<0.00088 UJ	<0.00086 UJ	<0.00084 UJ	<0.00086 UJ	<0.00089 UJ
Arsenic	6020A	N	MG/KG	11(***) MG/KG	**5.5 J**	**4.6 J**	**3.0 J**	**1.5 J**	**3.3 J**	**4.7 J**	**4.8 J**	**6.6 J**	**4.8 J**
Barium	6020A	N	MG/KG	220000.00 MG/KG	**130**	**97**	**96**	**79**	**65**	**180**	**120**	**92**	**67**
Cadmium	6020A	N	MG/KG	980 MG/KG	**1.1**	**0.19 J**	**0.43**	**0.43**	**1.4**	**0.76**	**0.97**	**0.63**	**0.66**
Calcium	6020A	N	MG/KG	2500000(*) MG/KG	**2000 J**	**1700 J**	**8100 J**	**6600 J**	**14000 J**	**20000 J**	**19000 J**	**9400 J**	**11000 J**
Chromium	6020A	N	MG/KG	214(***) MG/KG	**43**	**20**	**45**	**41**	**41**	**79**	**70**	**39**	**52**
Lead	6020A	N	MG/KG	800 MG/KG	**72**	**37**	**20**	**9.5**	**22**	**33**	**31**	**26**	**16**
Mercury	7471A	N	MG/KG	46 MG/KG	**0.34**	<0.028	**0.033 J**	<0.025	<0.029	**0.035 J**	**0.034 J**	**0.075**	**0.076**
Nickel	6020A	N	MG/KG	22000 MG/KG	**22 J**	**20 J**	**63 J**	**52 J**	**54 J**	**77 J**	**84 J**	**18 J**	**20 J**
Selenium	6020A	N	MG/KG	5800 MG/KG	**0.40 J**	**0.28 J**	<0.25	<0.25	<0.30	<0.30	**0.29 J**	**0.24 J**	**0.28 J**
Silver	6020A	N	MG/KG	5800 MG/KG	**0.38**	<0.080	**1.2**	**0.41**	**1.9**	**13**	**9.4**	**0.24**	**0.49**
Amenable Cyanide	9012A	N	MG/KG	150(*) MG/KG	<0.22	<0.21	<0.20	<0.19	**0.53 J**	<0.21	**0.61**	<0.21	**0.44 J**
Cyanide	9012A	N	MG/KG	150 MG/KG	<0.21	<0.21	<0.2	<0.18	**0.53 J**	<0.22 R	**0.61**	<0.21	**0.44 J**

Table 4-5
Soil Sample Analytical Results
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Notes:
Yellow shading indicates result exceeds the criteria
Gray shading indicates non-detect exceeds the criteria
Bolded value = Detected value
< = Non-detect value
MG/KG = Milligrams per kilogram
J = Report result is an estimate
UJ = Not detected. Reporting limit may not be accurate or precise
R = Sample result rejected
(1) Bis(2-Chloro-1-Methylethyl) Ether and bis (2-Chloroisopropyl)ether co-elute and cannot be reported separetely via the 8270 GC/MS analysis
*Per DNREC approval in letter dated January 14, 2021, the below identified Surrogate Constituent Industrial RSLs have been applied as the CPS for the original constituent. Cyanide RSL was approved as a surrogate for amenable cyanide in the DNREC comment letter dated 2-9-2021.

Original Constituent	CAS#	Surrogate Constituent	CAS#	Surrogate Industrial RSL (mg/kg) [(a)]
Dimethyl phthalate	131-11-3	Diethyl phthalate	84-66-2	660,000
Phenanthrene	85-01-8	Anthracene	120-12-7	230,000
Alpha Chlordane	5103-71-9	Chlordane (technical)	12789-03-6	7.7
Chlordane (analytical)	57-74-9	Chlordane (technical)	12789-03-6	7.7
Amenable Cyanide	NA	Cyanide	57-12-5	150
delta-BHC	319-86-8	beta-BHC	319-85-7	1.3
Endosulfan I	959-98-8	Endosulfan[(b)]	115-29-7	7,000
Endosulfan II	33213-65-9	Endosulfan[(b)]	115-29-7	7,000
Gamma Chlordane	5103-74-2	Chlordane (technical)	12789-03-6	7.7

(a) November 2020 Industrial Soil Regional Screening Levels (RSLs) that are protective of a target cancer risk of 1E-06 and target hazard quotient of 1.
(b) Surrogate constituent Endosulfan RSL to be compared against the sum of Endosulfan I + Endosulfan II analytical results per DNREC approval in letter dated January 14, 2021.

**Per DNREC Approval in letter dated January 14, 2021: If analytical results are all non-detect, but some or all method detection limits are above CPS, since all results are non-detect, there is no evidence to indicate the constituent is present; therefore, the constituent is not a concern.

*** Per DNREC Approval in letter dated January 14, 2021: The Delaware Hazardous Substance Cleanup Act criteria for Chromium (214 mg/kg) and Arsenic (11 mg/kg) is used in place of the RLS CPS for Chromium and Arsenic.
^ Per DNREC Approval in letter dated January 14, 2021, a Recommended Daily Allowance (RDA) based value will be used as the Calcium CPS

Table 4-6
Soil Exceedance Analytical Results - Exceedance Constituents Only
Incinerator Waste Storage Pad Closure
DuPont Experimental Station
Wilmington Delaware

Location ID					PAD-23-24-S	PAD-23-24-SUMPS	PAD-23-24-SUMPS	PAD-23-S-CTR	PAD-23-SW	PAD-24-0-S-CTR	PAD-24-0-SE	PAD-24-24-0-S	PAD-24-S-CTR	PAD-A-S-CTR	PAD-A-SE	PAD-A-SUMP	PAD-AB-S	PAD-B-NW	PAD-B-S-CTR	PAD-B-SUMP	PAD-B-SW	PAD-B-W-CTR	PAD-G-E-CTR	PAD-G-E-NE	PAD-G-E-SE	PAD-G-S-CTR	PAD-G-S-SE	PAD-G-S-SW	PAD-G-S-SW
Field Sample ID					PAD-23-24-S-0-0.5	PAD-23-24-SUMPS-0-0.5-D	PAD-23-24-SUMPS-0-0.5	PAD-23-S-CTR-0-0.5	PAD-23-SW-0-0.5	PAD-24-0-S-CTR-0-0.5	PAD-24-0-SE-0-0.5	PAD-24-24-0-S-0-0.5	PAD-24-S-CTR-0-0.5	PAD-A-S-CTR-0-0.5	PAD-A-SE-0-0.5	PAD-A-SUMP-2-3	PAD-AB-S-0-0.5	PAD-B-NW-0-0.5	PAD-B-S-CTR-0-0.5	PAD-B-SUMP-1.5-2	PAD-B-SW-0-0.5	PAD-B-W-CTR-0-0.5	PAD-G-E-CTR-0-0.5	PAD-G-E-NE-0-0.5	PAD-G-E-SE-0-0.5	PAD-G-S-CTR-0-0.5	PAD-G-S-SE-0-0.5	PAD-G-S-SW-0-0.5-D	PAD-G-S-SW-0-0.5
Date Sampled					08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose					FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS
Start Depth - End Depth					0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	2 - 3	0 - 0.5	0 - 0.5	0 - 0.5	1.5 - 2	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Benzo[A]Pyrene	8270D	N	MG/KG	2.1 MG/KG	**0.051**	**0.034**	**0.051**	<0.0040	**0.2**	**0.064**	**0.25**	**0.036**	**0.091**	**0.19**	**0.25**	**0.012 J**	**0.12**	**0.022**	**0.061**	**4.6**	**0.2**	**0.12**	**0.16 J**	**0.048 J**	**0.24**	**0.26**	**0.19**	**0.082 J**	**0.028 J**
Methiocarb	8318	N	MG/KG	MDL	<0.059	<0.056	<0.056	<0.061	<0.061	<0.059	<0.067	<0.059	<0.058	<0.056	<0.059	<0.061	<0.06	<0.055	<0.057	**0.066 J**	<0.06	<0.058	<0.055	<0.053	<0.059	<0.058	<0.056	<0.058	<0.059
Arsenic	6020A	N	MG/KG	11[(**)] MG/KG	**13**	**4.7**	**4.8 J**	**41 J**	**8.2 J**	**17 J**	**28**	**25**	**20 J**	**7.2 J**	**5.5 J**	**5.2 J**	**9.5 J**	**1.5 J**	**5.9 J**	**7.6 J**	**5.5 J**	**4.6 J**	**3.0 J**	**1.5 J**	**3.3 J**	**4.7 J**	**4.8 J**	**6.6 J**	**4.8 J**
Amenable Cyanide	9012A	N	MG/KG	150[(*)] MG/KG	<0.21 UJ	<0.20 UJ	<0.20 UJ	<0.22 UJ	**0.32 J**	<0.21 UJ	<0.24 UJ	<0.21 UJ	<0.21 UJ	<0.20	<0.21	<0.22	<0.22	<0.20	<0.21	<0.22	<0.22	<0.21	<0.20	<0.19	**0.53 J**	<0.21	**0.61**	<0.21	**0.44 J**

Notes:
Yellow shading indicates result exceeds the criteria
Bolded value = Detected value
< = Non-detect value
MG/KG = Milligrams per kilogram
J = Report result is an estimate
UJ = Not detected. Reporting limit may not be accurate or precise
* Use of the Cyanide RSL for soil as a surrogate CPS for amenable cyanide was approved in the DNREC comment letter dated February 9, 2021; none of the amenable cyanide detections exceeded the DNREC approved surrogate value.
** Per DNREC Approval in letter dated January 14, 2021: The Delaware Hazardous Substance Cleanup Act criteria for Arsenic (11 mg/kg) is used in place of the RLS CPS for Chromium and Arsenic.

Table 4-7
Summary of the Cancer Risk and Non-Cancer Hazard Results for the Outdoor Pad Worker
DuPont Experimental Station
Wilmington, Delaware

Exposure Scenario/ Exposure Media	Constituent of Potential Concern	Non-Cancer Hazard (Unitless) (b)	Cancer Risk (Unitless) (b)
Outdoor Pad Worker Exposed to Soil at Pad B	Benzo[a]pyrene	0.002	2.E-06
	Methiocarb (a)	-	-
	CUMULATIVE TOTAL:	**0.002**	**2.E-06**
Outdoor Pad Worker Exposed to Soil at Pads 23, 24, and 24-0	Arsenic	0.02	3.E-06
	CUMULATIVE TOTAL:	**0.02**	**3.E-06**
Outdoor Pad Worker Exposed to Rinsate Water (c)	Bis(2-ethylhexyl)phthalate	0.00003	3.E-09
	Hexachlorocyclohexane, Beta- (Beta-BHC)	-	3.E-08
	Naphthalene	0.0001	1.E-08
	Trichlorophenol, 2,4,6-	0.006	2.E-08
	CUMULATIVE TOTAL:	**0.006**	**7.E-08**

a) No toxicity values for methiocarb therefore no risk results were calculated.
b) The DNREC-RS cumulative thresholds are 1×10^{-5} (1E-05) for cancer risk and 1 for non-cancer hazards.
c) The EPA indoor worker scenario in RAIS was selected which assumes drinking water (tap water) exposure; the indoor worker exposure parameters were replaced with outdoor worker exposure parameters to account for outdoor activities such as incidental ingestion and dermal contact with rinsate water during pad cleaning and sump drain purging.

Figures

LEGEND

Property Boundary

USA Topo Maps Source: USGS 1:24K Topographic Map; Copyright:© 2013 National Geographic Society, i-cubed

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0 1,000 2,000
Feet
1 inch = 2,000 feet

MAP FORMATTED FOR "A" (8.5" X 11") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

SITE LOCATION MAP

Facility Incinerator Waste Storage Pads
Partial Closure Certification Report
DuPont Experimental Station
Wilmington, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: C. DUFFY	DATE: 1/21/2021
DRAWN BY: C. DUFFY	FIGURE NUMBER: 1-1
DATA QUALITY CHECK BY: P. CHEN	

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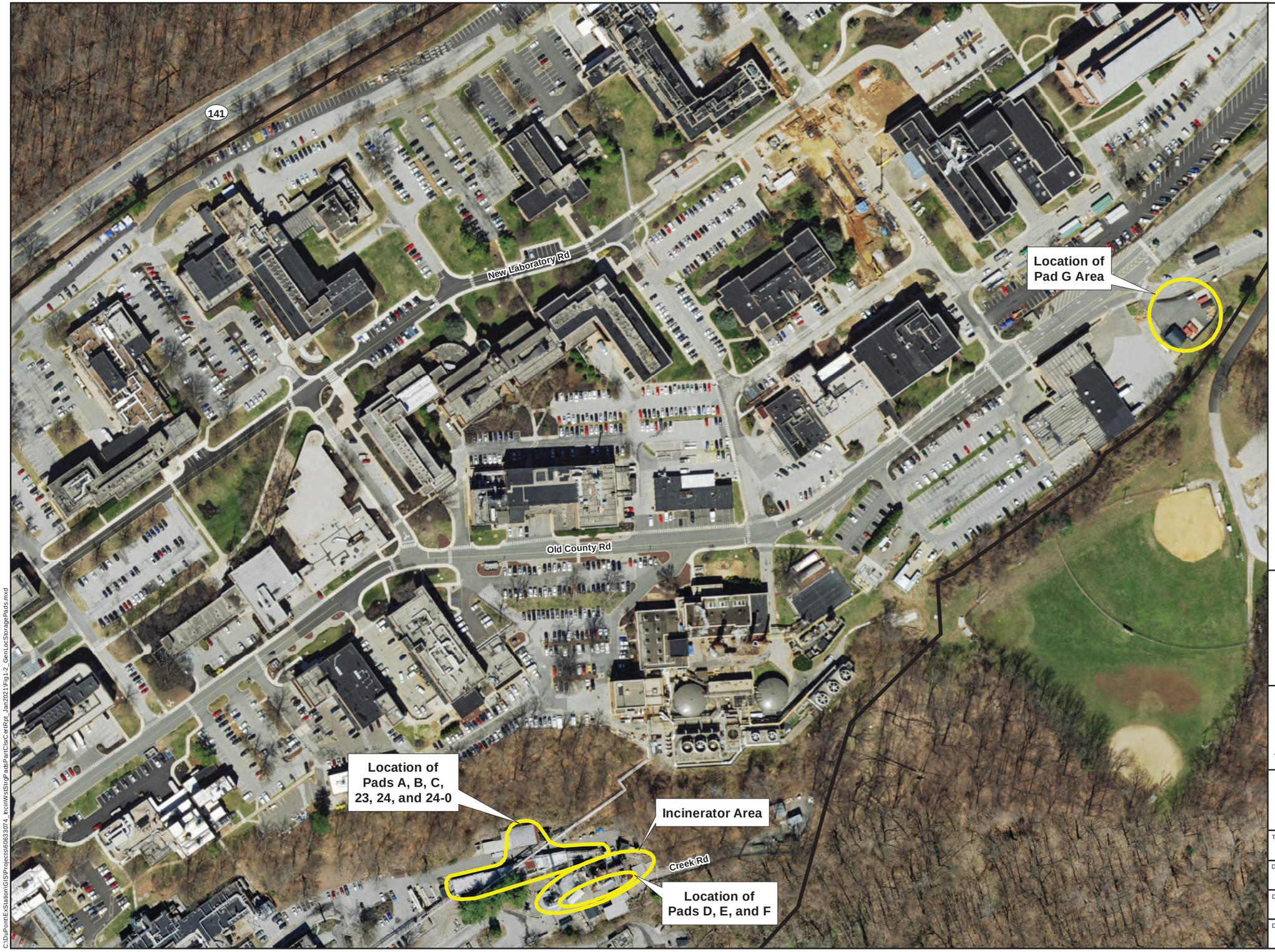

LEGEND

PROPERTY BOUNDARY

GENERAL LOCATION OF PAD AND INCINERATOR AREA

Notes:
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

0 175 350
Feet
1 inch = 175 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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GENERAL LOCATION OF STORAGE PADS AND INCINERATOR AREA

Facility Incinerator Waste Storage Pads
Partial Closure Certification Report
DuPont Experimental Station
Wilmington, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P. CHEN	DATE: 1/26/2021
DRAWN BY: C. DUFFY	FIGURE NUMBER: 1-2
DATA QUALITY CHECK BY: P. CHEN	

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LEGEND

INCINERATOR AREA

BASEMAP FEATURE

Notes:
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

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Feet
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IDENTIFICATION OF INCINERATOR AREA

Facility Incinerator Waste Storage Pads
Partial Closure Certification Report
DuPont Experimental Station
Wilmington, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P. CHEN	DATE: 1/21/2021
DRAWN BY: C. DUFFY	FIGURE NUMBER: 1-3
DATA QUALITY CHECK BY: P. CHEN	

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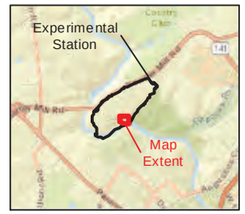
LEGEND

INCINERATOR AREA STORAGE PAD

Notes:
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017



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1 inch = 40 feet

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LOCATION OF INCINERATOR AREA STORAGE PADS A, B, C, D, E, F, 23, 24, AND 24-0

Facility Incinerator Waste Storage Pads
Partial Closure Certification Report
DuPont Experimental Station
Wilmington, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P. CHEN	DATE: 1/22/2021
DRAWN BY: C. DUFFY	FIGURE NUMBER: 2-1
DATA QUALITY CHECK BY: P. CHEN	

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Legend

- RINSATE SAMPLE LOCATION
- WASTE STORAGE PAD (OUTLINE APPROXIMATE)

Notes:
Notes:

^ = Due to lack of access, a soil sample to base of sump will not be collected.
^ = Due to lack of access, a soil sample to base of sump will not be collected.

Map Projection: Delaware State Plane Feet NAD 83
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017
Aerial Source: Surdex Corp 2017

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1 inch = 25 feet

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PADS A, B, AND C RINSATE SAMPLE LOCATIONS FOR PAD CLOSURE

Facility Incinerator Waste Storage Pads
Partial Closure Certification Report
DuPont Experimental Station
Wilmington, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P. CHEN	DATE: 1/22/2021
DRAWN BY: C. DUFFY	FIGURE NUMBER: 4-1
DATA QUALITY CHECK BY: P. CHEN	

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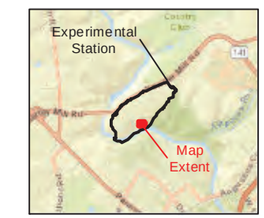
Legend

- SUMP (LOCATION APPROXIMATE)
- RINSATE SAMPLE LOCATION
- WASTE STORAGE PAD (OUTLINE APPROXIMATE)

Notes:

Notes:
Waste Storage Pad 24-0 includes the Primary Pumphouse.
^ = Due to lack of access, a soil sample to base of sump will not be collected.
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017



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Feet
1 inch = 25 feet

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PADS A, B, 23, 24, 24-0 SOIL SAMPLE LOCATIONS FOR PAD CLOSURE

Facility Incinerator Waste Storage Pads
Partial Closure Certification Report
DuPont Experimental Station
Wilmington, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P. CHEN	DATE: 1/22/2021
DRAWN BY: C. DUFFY	FIGURE NUMBER: 4-2
DATA QUALITY CHECK BY: P. CHEN	

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LEGEND

- SOIL SAMPLE LOCATION
- WASTE STORAGE PAD (OUTLINE APPROXIMATE)

Notes:
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

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Feet
1 inch = 25 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

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PAD G
SOIL SAMPLE LOCATIONS FOR PAD CLOSURE

Facility Incinerator Waste Storage Pads
Partial Closure Certification Report
DuPont Experimental Station
Wilmington, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P. CHEN	DATE: 1/22/2021
DRAWN BY: C. DUFFY	FIGURE NUMBER: 4-3
DATA QUALITY CHECK BY: P. CHEN	

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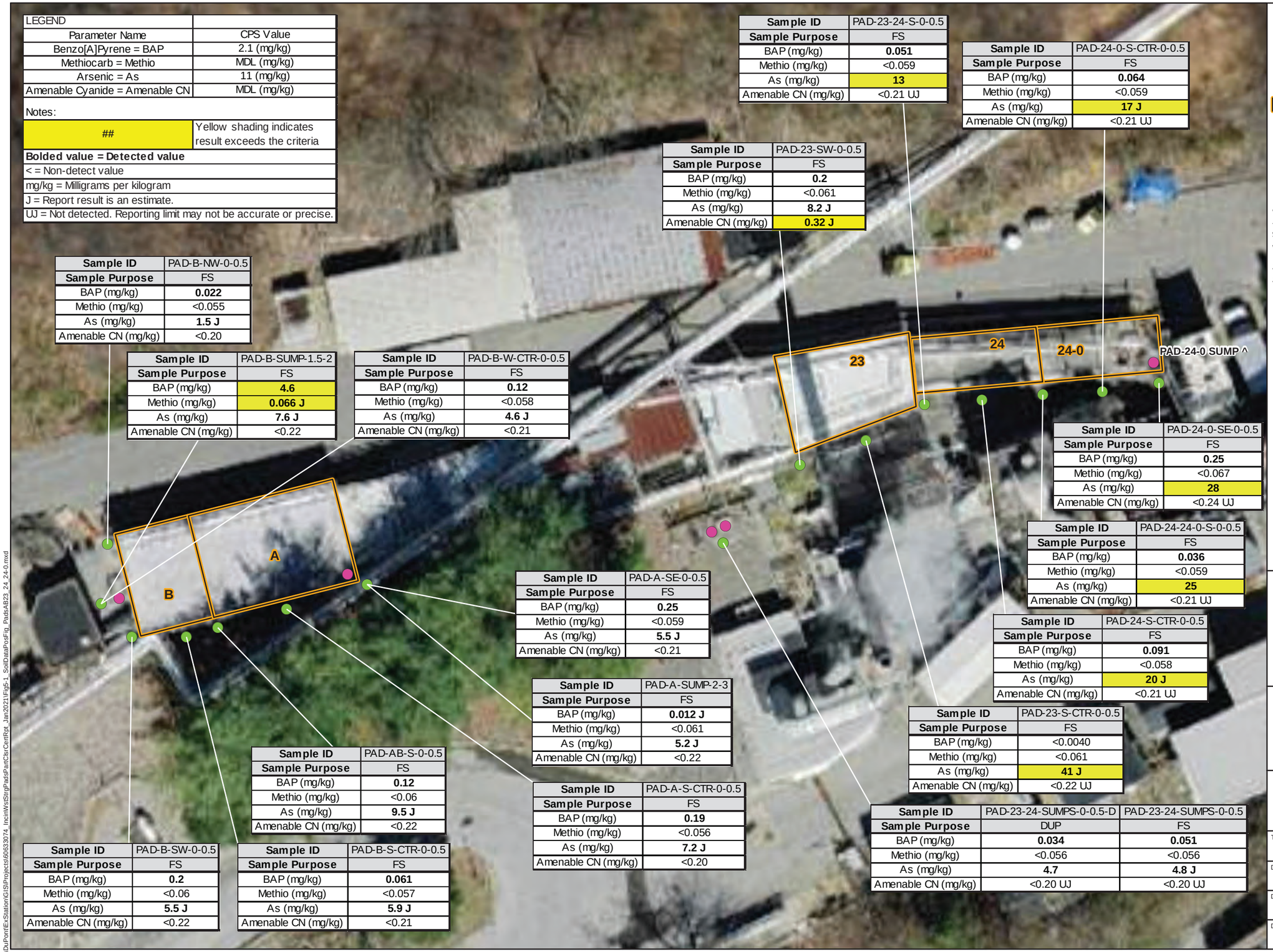

LEGEND	
Parameter Name	CPS Value
Benzo[A]Pyrene = BAP	2.1 (mg/kg)
Methiocarb = Methio	MDL (mg/kg)
Arsenic = As	11 (mg/kg)
Amenable Cyanide = Amenable CN	MDL (mg/kg)
Notes:	
##	Yellow shading indicates result exceeds the criteria
Bolded value = Detected value	
< = Non-detect value	
mg/kg = Milligrams per kilogram	
J = Report result is an estimate.	
UJ = Not detected. Reporting limit may not be accurate or precise.	

Sample ID	PAD-23-24-S-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.051**
Methio (mg/kg)	<0.059
As (mg/kg)	**13**
Amenable CN (mg/kg)	<0.21 UJ

Sample ID	PAD-24-0-S-CTR-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.064**
Methio (mg/kg)	<0.059
As (mg/kg)	**17 J**
Amenable CN (mg/kg)	<0.21 UJ

Sample ID	PAD-23-SW-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.2**
Methio (mg/kg)	<0.061
As (mg/kg)	**8.2 J**
Amenable CN (mg/kg)	**0.32 J**

Sample ID	PAD-B-NW-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.022**
Methio (mg/kg)	<0.055
As (mg/kg)	**1.5 J**
Amenable CN (mg/kg)	<0.20

Sample ID	PAD-B-SUMP-1.5-2
Sample Purpose	FS
BAP (mg/kg)	**4.6**
Methio (mg/kg)	**0.066 J**
As (mg/kg)	**7.6 J**
Amenable CN (mg/kg)	<0.22

Sample ID	PAD-B-W-CTR-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.12**
Methio (mg/kg)	<0.058
As (mg/kg)	**4.6 J**
Amenable CN (mg/kg)	<0.21

Sample ID	PAD-24-0-SE-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.25**
Methio (mg/kg)	<0.067
As (mg/kg)	**28**
Amenable CN (mg/kg)	<0.24 UJ

Sample ID	PAD-24-24-0-S-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.036**
Methio (mg/kg)	<0.059
As (mg/kg)	**25**
Amenable CN (mg/kg)	<0.21 UJ

Sample ID	PAD-A-SE-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.25**
Methio (mg/kg)	<0.059
As (mg/kg)	**5.5 J**
Amenable CN (mg/kg)	<0.21

Sample ID	PAD-24-S-CTR-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.091**
Methio (mg/kg)	<0.058
As (mg/kg)	**20 J**
Amenable CN (mg/kg)	<0.21 UJ

Sample ID	PAD-A-SUMP-2-3
Sample Purpose	FS
BAP (mg/kg)	**0.012 J**
Methio (mg/kg)	<0.061
As (mg/kg)	**5.2 J**
Amenable CN (mg/kg)	<0.22

Sample ID	PAD-23-S-CTR-0-0.5
Sample Purpose	FS
BAP (mg/kg)	<0.0040
Methio (mg/kg)	<0.061
As (mg/kg)	**41 J**
Amenable CN (mg/kg)	<0.22 UJ

Sample ID	PAD-AB-S-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.12**
Methio (mg/kg)	<0.06
As (mg/kg)	**9.5 J**
Amenable CN (mg/kg)	<0.22

Sample ID	PAD-A-S-CTR-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.19**
Methio (mg/kg)	<0.056
As (mg/kg)	**7.2 J**
Amenable CN (mg/kg)	<0.20

Sample ID	PAD-23-24-SUMPS-0-0.5-D	PAD-23-24-SUMPS-0-0.5
Sample Purpose	DUP	FS
BAP (mg/kg)	**0.034**	**0.051**
Methio (mg/kg)	<0.056	<0.056
As (mg/kg)	**4.7**	**4.8 J**
Amenable CN (mg/kg)	<0.20 UJ	<0.20 UJ

Sample ID	PAD-B-SW-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.2**
Methio (mg/kg)	<0.06
As (mg/kg)	**5.5 J**
Amenable CN (mg/kg)	<0.22

Sample ID	PAD-B-S-CTR-0-0.5
Sample Purpose	FS
BAP (mg/kg)	**0.061**
Methio (mg/kg)	<0.057
As (mg/kg)	**5.9 J**
Amenable CN (mg/kg)	<0.21

Legend

- SUMP (LOCATION APPROXIMATE)
- RINSATE SAMPLE LOCATION
- WASTE STORAGE PAD (OUTLINE APPROXIMATE)

Notes:

Waste Storage Pad 24-0 includes the Primary Pumphouse.
^ = Due to lack of access, a soil sample to base of sump will not be collected.
Notes:
^ = Due to lack of access, a soil sample to base of sump will not be collected.
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

0 25 50

Feet

1 inch = 25 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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SOIL DATA POSTING FIGURE - PADS A, B, 23, 24, 24-0

Facility Incinerator Waste Storage Pads
Partial Closure Certification Report
DuPont Experimental Station
Wilmington, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P. CHEN	DATE: 1/26/2021
DRAWN BY: C. DUFFY	FIGURE NUMBER: 5-1
DATA QUALITY CHECK BY: P. CHEN	

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Appendices

Appendix A

DuPont Request to use Alternate Criteria and Associated DNREC Approval; DNREC Comment Letter dated February 9, 2021

DuPont Specialty Products USA, LLC
Experimental Station
200 Powder Mill Rd
Wilmington, DE 19803
302.774.1000

January 12, 2021

Ms. Melissa Ferree
Engineer III
Solid and Hazardous Waste Management Section
Delaware Department of Natural Resources and Environmental Control (DNREC)
89 Kings Highway
Dover, Delaware 19901

Subject: Request Use of Alternate Closure Performance Standard (CPS) Values for Certain Constituents, Incinerator Area Storage Pads, DuPont Experimental Station, Wilmington, Delaware

Dear Melissa:

Please find attached the alternative Closure Performance Standard (CPS), which includes comments received by DuPont on January 7, 2021 from DNREC in regard to the December 11, 2020 submission.

Thank you for participating in the November 4, 2020 DuPont-DNREC meeting regarding the status of the incinerator area storage pad activities. During this meeting, the storage pad rinsate and soil laboratory results were discussed. Based on the results, DuPont recommended the use of alternate CPS values for certain constituents. DNREC noted that any requests to use an alternate criteria must be submitted in writing. This notification letter is being submitted to meet this requirement.

Rinsate and Soil CPS Values

Per the Closure Plan located in the DuPont document “Permit for Hazardous Waste Storage” for DuPont Specialty Products USA, LLC, DuPont Experimental Station (effective 7-10-2020), the following CPS values were selected:

- CPS for rinsate:
  - The Maximum Contaminant Level (MCL) was used for rinsate.
  - If an MCL value was not available for a constituent, the U.S. Environmental Protection Agency (EPA) Risk-based Screening Level (RSL)-tap water was used.
  - If neither MCL nor RSL-tap water was available for a constituent, the laboratory Method Detection Limit (MDL) was used.
- CPS for soils:
  - The EPA Industrial Soil RSL was used.
  - If an RSL value was not available for a constituent, the laboratory MDL was used.

For the purposes of this letter, CPS associated with MCL, RSL-tap water, and Industrial Soil RSL values will be referred to as RSL-CPS; CPS associated with laboratory MDL values will be referred to as MDL-CPS.

In general, based on a review of the data, it was determined that alternate CPS are applicable for certain constituents for any of the following reasons:

- The alternate CPS is more representative;
- An alternate risk based CPS value has been identified that better represents potential risk concerns; and/or
- Identified RSLs are not attainable by standard agency-approved laboratory methodology.

The following sections present a constituent-by-constituent discussion of each alternate CPS recommendation. Where appropriate, constituents with a similar request have been grouped together.

Requested Use of Alternate Criteria for Rinsate CPS

Based on a review of the rinsate analytical results, DuPont requests an alternate CPS for 28 constituents. The identified 28 constituents as well as proposed alternate CPS are summarized in Table 1 (attached) and discussed in detail below.

2 Constituents: Identified CPS = MDL; Replace with Surrogate Constituent Risk Values

The laboratory MDL is the lower detection limit for a constituent of interest. The MDL has been defined as: "The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero". Using the MDL as a closure performance standard (i.e., MDL-CPS) is very conservative because 1) the MDL is the non-quantifiable lower detection limit, and 2) the MDL is not a risk-based value.

Two constituents, endosulfan1 and amenable cyanide, had at least one detection (estimated value) above the assigned MDL-CPS (see attached Table 1); EPA RSL/MCL values are not available for endosulfan1 and amenable cyanide. For these two constituents, DuPont requests the use of surrogate constituent risk values.

Surrogate constituents are chemically and toxicologically similar to the constituent of interest. Due to the similarities, the surrogate constituent's risk value can be applied when a risk value is not available for a constituent of interest. A document reference supporting use of surrogates (identified in the document as Proxy Chemicals) can be found here: https://www.deq.virginia.gov/Portals/0/DEQ/Land/RemediationPrograms/VURAM/VURAMUG3.1.pdf?ver=2020-06-11-102551-837

The two surrogates and their associated RSL-tap water or MCL values are identified below and in Table 1 (attached). DuPont requests that, because laboratory MDL are not risk-based values and surrogates are chemically and toxicologically similar, the identified surrogate RSL values be used in place of the MDL-CPS.

Original Constituent	CAS#	Surrogate Constituent	CAS#	MCL/RSL (µg/L) [a, b]
Endosulfan I	959-98-8	Endosulfan [c]	115-29-7	100 (RSL)
Amendable Cyanide	NA	Cyanide	57-12-5	200 (MCL)

NA = Not Available
µg/L = micrograms per liter

(a) November 2020 Tap Water Regional Screening Levels (RSLs) that are protective of a target cancer risk of 1E-06 and target hazard quotient of 1.
(b) Maximum Contaminant Levels (MCLs) are from National Primary Drinking Water Regulations. EPA 816-F-09-004. https://www.epa.gov/dwstandardsregulations/2018-drinking-water-standards-and-advisory-tables
(c) Surrogate constituent Endosulfan to be compared against the sum of Endosulfan I + Endosulfan II analytical results per email from Melissa A. Ferree (DNREC) to Mary L. Glowacki (DuPont) dated January 7, 2021.

25 Constituents: Identified CPS = RSL; All results non-detect; MDL slightly above RSL

The analytical results associated with the following 25 constituents were all non-detect for all rinsate samples.

1,1,2,2-Tetrachloroethane	4-Chloroaniline	N-Nitrosodiethylamine
1,2-Dibromo-3-Chloropropane	Acrylonitrile	N-Nitroso-Di-N-Butylamine
1,2-Dibromoethane (EDB)	Benzo(A)Anthracene	N-Nitrosodi-N-Propylamine
1,4-Dioxane	Bis(2-Chloroethyl)Ether	N-Nitrosopiperidine

2,4-Dinitrotoluene	Dibenz(A,H)Anthracene	N-Nitrosopyrrolidine
2,6-Dinitrotoluene	Hexachlorobutadiene	Pentachloronitrobenzene
2-Acetylaminofluorene	Hexachloroethane	Safrole
3-Methylcholanthrene	Methacrylonitrile	
4,4'-Methylenebis-(2-Chlorobenzenamine)	Nitrobenzene	

However, the analytical methods for the 25 constituents did not have an MDL that could attain the low RSL-CPS value (see attached Table 1). The laboratory methods associated with the 25 constituents were identified in the approved Closure Plan. The methods applied were standard EPA -accepted methods. Attaining a lower MDL would require using a modified, non-standard, and/or constituent-specific analytical method that may not meet agency approval. Three national laboratories were contacted (Eurofins Lancaster Laboratories, TestAmerica Laboratory, and Alpha Labs) regarding potential laboratory analytical methods that could attain an MDL value as low as the identified RSL value. The laboratories indicated that for at least 17 of the 25 constituents, they did not have an analytical method that could attain an MDL value as low as the identified RSL.

The rinsate results associated with the 25 constituents were all non-detect. The non-detect MDL values attained were equal to the equipment blank values indicating that the laboratory MDLs were not impacted by interference. Based on the absence of detections, there is no evidence to indicate that these constituents are present. DuPont requests that, for the 25 identified constituents, when the RSL-CPS value cannot be reached using the closure plan-identified and agency-accepted laboratory methodology, the MDL be used as the CPS.

Calcium: Identified CPS= MDL; Request MDL-CPS be replaced with Recommended Daily Allowance based value

Calcium does not have an EPA RSL/MCL value; hence, use of the MDL-CPS was identified. As noted previously, the MDL is not a risk-based value and using the MDL as a CPS is very conservative. Calcium is also both naturally occurring and a component of cement used in the construction of storage pads.

Calcium was detected in all storage pad rinsate samples (Table 1; attached). The calcium detection is likely associated with calcium released from the cement pad during pad cleaning. In addition, calcium was also detected within the equipment blank (collected from an unused plastic bottle that had previously contained deionized water), indicating that calcium appears to be ubiquitous within the environment.

Calcium is an essential nutrient. The Food and Nutrition Board at the Institute of Medicine of the National Academies (formerly National Academy of Sciences) identified a recommended daily allowance for calcium of 500 milligrams per day (mg/day)[1]. An associated RDA value of 250,000 micrograms per liter (µg/L) was derived from the 500 mg/day RDA-value; 500 mg/day divided by a drinking water ingestion rate of 2 liters/day and converted into µg/L (IOM, 1999[2]).

$$250{,}000\,\frac{\mu g}{L} = \frac{\text{RDA of } 500\,\frac{\text{mg}}{\text{day}} \times Conversion\ 1000\ \frac{\mu g}{mg}}{\text{Drinking Water Ingestion Rate of } 2\,\frac{\text{L}}{\text{day}}}$$

DuPont requests that the RDA-based value of 250,000 µg/L be used as the calcium CPS in place of the calcium MDL.

[1] Ross et al. DRI Dietary Reference Intakes Calcium Vitamin D. Committee to Review Dietary Reference Intakes for Vitamin D and Calcium. Food and Nutrition Board. Institute of Medicine of the National Academies. The National Academies Press.
[2] IOM. 1999. Institute of Medicine (IOM). Food and Nutrition Board, 1999. Dietary Reference Intakes for Calcium, Phosphorus, Magnesium, Vitamin D, and Fluoride. National Academy Press.

Requested Use of Alternate Criteria for Soil CPS

Based on a review of the soil analytical results DuPont requests an alternate CPS for 15 constituents. The identified 15 constituents as well as proposed alternate CPS are summarized in Table 2 (attached) and discussed in detail below.

8 Constituents: Identified CPS = MDL; Replace with Surrogate Constituent Risk Values

The following eight constituents do not have an EPA RSL; hence, use of the MDL-CPS was assigned.

Dimethyl phthalate
Phenanthrene
Alpha Chlordane
Chlordane (analytical)
delta-BHC
Endosulfan I
Endosulfan II
Gamma Chlordane

The above constituents had at least one detection above the MDL-CPS (see attached Table 2).

DuPont requests the use of surrogate constituent risk values in place of the conservative MDL-CPS. Surrogate constituents are chemically and toxicologically similar to the constituent of interest. Due to the similarities, the surrogate constituent's risk value can be applied when a risk value is not available for a constituent of interest. The eight surrogates and their associated Industrial Soil RSL values are identified below and in Table 2 (attached).

Original Constituent	CAS#	Surrogate Constituent	CAS#	Surrogate Industrial RSL (mg/kg) [(a)]
Dimethyl phthalate	131-11-3	Diethyl phthalate	84-66-2	660,000
Phenanthrene	85-01-8	Anthracene	120-12-7	230,000
Alpha Chlordane	5103-71-9	Chlordane (technical)	12789-03-6	7.7
Chlordane (analytical)	57-74-9	Chlordane (technical)	12789-03-6	7.7
delta-BHC	319-86-8	beta-BHC	319-85-7	1.3
Endosulfan I	959-98-8	Endosulfan[(b)]	115-29-7	7,000
Endosulfan II	33213-65-9	Endosulfan[(b)]	115-29-7	7,000
Gamma Chlordane	5103-74-2	Chlordane (technical)	12789-03-6	7.7

mg/kg = micrograms per kilogram

(a) November 2020 Industrial Soil Regional Screening Levels (RSLs) that are protective of a target cancer risk of 1E-06 and target hazard quotient of 1.

(b) Surrogate constituent Endosulfan to be compared against the sum of Endosulfan I + Endosulfan II analytical results per email from Melissa A. Ferree (DNREC) to Mary L. Glowacki (DuPont) dated January 7, 2021

DuPont requests that, because laboratory MDL are not risk-based values and surrogates are chemically and toxicologically similar, the eight identified surrogate RSL values be used as the CPS in place of the MDL-CPS.

3 Constituents: Identified CPS = RSL; All results non-detect; some MDL values were elevated

For the following three constituents, the EPA industrial RSL had been identified as the constituents CPS.

- 2-Acetylaminofluorene
- 3-Methylcholanthrene
- N-Nitroso-Di-N-Butylamine

The results for these constituents were non-detect in all soil samples (Table 2; attached). However, at least one non-detect was slightly above the RSL-CPS.

The laboratory method applied was identified in the approved Closure Plan. The laboratory method used was able to attain an MDL at or below the RSL. However, due to variations in the sample matrix or interference from other constituents, the non-detect MDL for at least one sample-result was slightly higher than the RSL-CPS.

Because the soil results were all non-detect for the three identified constituents, there is no evidence to indicate that these constituents are present. Therefore, DuPont requests the conclusion that the non-detects for the three constituents are not a concern.

N-Nitrosodiethylamine: Identified CPS = RSL; All results non-detect; MDL slightly above the RSL

The RSL-CPS for N-Nitrosodiethylamine = 0.015 milligrams per kilogram (mg/kg); the associated laboratory MDL = 0.2 mg/kg. The laboratory method applied was identified in the approved Closure Plan and is an agency-accepted method for N-Nitrosodiethylamine analysis. Discussions with several national environmental laboratories concluded that the EPA-approved laboratory methods currently in routine use are unable to achieve an MDL down to the identified RSL value.

All soil results were non-detect for N-Nitrosodiethylamine (Table 2; attached). DuPont requests that, since the RSL-CPS value cannot be reached using closure plan-identified and agency-accepted laboratory methodology, the MDL for N-Nitrosodiethylamine should be used as the CPS.

Chromium: Requests that the identified MDL-CPS be replaced with Delaware Hazardous Substance Cleanup Act (HSCA) value

Chromium does not have an EPA RSL soil value; hence, the MDL-CPS was identified. As noted previously, the MDL is not a risk-based value and using the MDL as a CPS is very conservative. However, the Delaware HSCA does have a risk-based value for total chromium. In addition, the HSCA chromium value has been identified as a background threshold value and is a value that was calculated based on Delaware background studies. DuPont concludes that the Delaware HSCA value is more representative of Delaware soils and therefore requests that the Delaware HSCA value for total chromium be used in place of the laboratory MDL.

Calcium: Request MDL-CPS be replaced with Recommended Daily Allowance (RDA) based value

Calcium does not have an EPA RSL soil value; hence, use of the MDL-CPS was identified. As noted previously, the MDL is not a risk-based value and using the MDL as a CPS is very conservative. Calcium is also both naturally occurring and a component of cement used in construction.

Calcium was detected in all storage pad soil samples (Table 2; attached). The calcium detected is likely either naturally occurring or associated with construction fill material.

As noted previously, the MDL is not a risk-based value and using the MDL as a CPS is very conservative; especially for a compound that is an essential nutrient. The Food and Nutrition Board at the Institute of Medicine of the National Academies (formerly National Academy of Sciences) identified a recommended daily allowance for calcium of 500 mg/day. Converting the RDA value from mg/day to mg/kg results in an RDA based value of 2,500,000 mg/kg. The RDA based value was calculated as follows:

$$2{,}500{,}000\,\frac{mg}{kg} = \frac{\text{RDA of } 500\,\frac{\text{mg}}{\text{day}}}{\text{Soil Ingestion Rate of } 200\,\frac{mg}{day} \times Conversion\ 10^{-6}\,\frac{kg}{mg}}$$

DuPont requests that the above Food and Nutrition Board RDA based calcium value of 2,500,000 mg/kg be used in place of the MDL-CPS.

Arsenic: Identified CPS = RSL; Delaware HSCA Value Recommended

The EPA RSL industrial soil value for arsenic is based on standard assumptions regarding exposure and risk assessment. The State of Delaware prepared arsenic specific background studies for Delaware and found that native Delaware soils were naturally high in arsenic. Arsenic background study concentrations ranged from 3.3 to 18 parts per million (ppm); the Delaware background arsenic concentrations exceed the EPA industrial soil RSL of 3 ppm.

Using the data collected from the background study, the State of Delaware identified an arsenic background threshold value of 11 ppm for the Delaware HSCA program.

Based on the studies performed by the State of Delaware and the higher natural background arsenic concentrations present, DuPont requests that the identified Delaware HSCA arsenic background threshold value of 11 ppm be applied to storage pad soil sample results.

Summary

In summary, regarding the Incinerator Storage Pad Closure soil and rinsate sample analytical results, DuPont requests the following:

- Soil and Rinsate:
  - Where the CPS = MDL and a surrogate constituent risk-based value is available, the surrogate risk value will be used.
  - Where the CPS = RSL and all results are non-detect but some non-detects are above RSL, the constituent non-detects above RSL are not a concern.
  - Where the CPS = RSL and all results are non-detect but the MDL is slightly above RSL, the MDL will be used as CPS.
  - Chromium and arsenic MDL-CPS be replaced with the Delaware HSCA background threshold values.
  - Calcium MDL-CPS will be replaced with the identified RDA based value.

A response regarding the above requests is appreciated. You may contact me via email at Mary.Glowacki-1@dupont.com.

Sincerely,

Mary Glowacki
Environmental Compliance Manager
DuPont Experimental Station

Table 1
Incinerator Area Storage Pad Rinsate Results, Closure Plan identified CPS, Request to Use Alternate Criteria

Location ID						EB	PAD A	PAD B	PAD B	PAD C	TB	Request to Use Alternate Criteria			
Field Sample ID						EQUIPMENT_BLANK-091020	PAD-A-091020	PAD-B-091020-D	PAD-B-091020	PAD-C-091020	TRIP_BLANK-091020				
Date Sampled						09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020	09/10/2020				
Sample Purpose						EB	FS	DUP	FS	FS	TB				
Start Depth - End Depth															
Parameter Name	Analytical Method	Filtered	Report Units	Source CPS Value	CPS_RINSATE	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Surrogate Constituent	CAS#	Surrogate Tap Water/MCL (ug/L)	Support for Change
Endosulfan I	8081B	N	UG/L	MDL	MDL	<0.0045	<0.0043	<0.0043	<0.0044	**0.052 J**		Endosulfan	115-29-7	100	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk value be used as the CPS in-place of the MDL-CPS. Surrogate constituent Endosulfan to be compared against the sum of Endosulfan I + Endosulfan II analytical results per email from Melissa A. Ferree (DNREC) to Mary L. Glowacki (DuPont) dated January 7, 2021
Amenable Cyanide	9012A	N	UG/L	MDL	MDL	<5.0 UJ	**6.6 J**	**6.7 J**	**5.7 J**	**11 J**		Cyanide	57-12-5	200	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk value be used as the CPS in-place of the MDL-CPS.
1,1,2,2-Tetrachloroethane	8260C	N	UG/L	RSL	0.076 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
1,2-Dibromo-3-Chloropropane	8260C	N	UG/L	RSL	0.2 UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
1,2-Dibromoethane (EDB)	8260C	N	UG/L	RSL	0.05 UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Acrylonitrile	8260C	N	UG/L	RSL	0.052 UG/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Methacrylonitrile	8260C	N	UG/L	RSL	1.9 UG/L	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
1,4-Dioxane	8260C	N	UG/L	RSL	0.46 UG/L	<29	<29	<29	<29	<29	<29	na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
2,4-Dinitrotoluene	8270D	N	UG/L	RSL	0.24 UG/L	<1.0	<1.0	<1.0	<1.0	<1.0		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
2,6-Dinitrotoluene	8270D	N	UG/L	RSL	0.049 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
2-Acetylaminofluorene	8270D	N	UG/L	RSL	0.016 UG/L	<10	<10	<10	<10	<10		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
3-Methylcholanthrene	8270D	N	UG/L	RSL	0.0011 UG/L	<4.0	<4.0	<4.0	<4.0	<4.0		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
4,4'-Methylenebis-(2-Chlorobenzenamine)	8270D	N	UG/L	RSL	0.16 UG/L	<72	<72	<72	<72	<72		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
4-Chloroaniline	8270D	N	UG/L	RSL	0.37 UG/L	<4.0	<4.0	<4.0	<4.0	<4.0		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Benzo(A)Anthracene	8270D	N	UG/L	RSL	0.03 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Bis(2-Chloroethyl)Ether	8270D	N	UG/L	RSL	0.014 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Dibenz(A,H)Anthracene	8270D	N	UG/L	RSL	0.025 UG/L	<0.10	<0.10	<0.10	<0.10	<0.10		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Hexachlorobutadiene	8270D	N	UG/L	RSL	0.14 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Hexachloroethane	8270D	N	UG/L	RSL	0.33 UG/L	<1.0	<1.0	<1.0	<1.0	<1.0		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Nitrobenzene	8270D	N	UG/L	RSL	0.14 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
N-Nitrosodiethylamine	8270D	N	UG/L	RSL	0.00017 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
N-Nitroso-Di-N-Butylamine	8270D	N	UG/L	RSL	0.0027 UG/L	<12	<12	<12	<12	<12		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
N-Nitrosodi-N-Propylamine	8270D	N	UG/L	RSL	0.011 UG/L	<0.71	<0.71	<0.71	<0.71	<0.71		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
N-Nitrosopiperidine	8270D	N	UG/L	RSL	0.0082 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
N-Nitrosopyrrolidine	8270D	N	UG/L	RSL	0.037 UG/L	<0.51	<0.50	<0.51	<0.51	<0.51		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Pentachloronitrobenzene	8270D	N	UG/L	RSL	0.12 UG/L	<2.0	<2.0	<2.0	<2.0	<2.0		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Safrole	8270D	N	UG/L	RSL	0.096 UG/L	<2.0	<2.0	<2.0	<2.0	<2.0		na	na	na	All results were non-detect and multiple laboratories could not attain many of the RSL criteria. DuPont recommends that when the RSL-CPS value cannot be reached using standard, agency-accepted, laboratory methodology, that the sample MDL be used as the CPS.
Calcium	6020A	N	UG/L	MDL	MDL	**160 J**	**34000**	**35000 J**	**34000 J**	**35000**		Calcium	7740-70-2	RDA Based Value = 250,000	Calcium does not have an EPA MCL or Tapwater value; the MDL was selected as the CPS. However, calcium occurs naturally and is an essential nutriant. Based on the recommended daily alllowance (RDA), DuPont requests that an RDA based value be used as the Calcium CPS in place of the laboratory MDL.

Notes:

##	Yellow shading indicates result exceeds the criteria
##	Gray shading indicates non-detect exceeds the criteria

Groups similar alternate criteria recommendations

Bolded value = Detected value
< = Non-detect value
UG/L = Micrograms per liter
J = Report result is an estimate
UJ = Not detected. Reporting limit may not be accurate or precise

Table 2
Incinerator Area Storage Pad Soil Results, Closure Plan identified CPS, Request to Use Alternate Criteria

Location ID						PAD-23-24-S	PAD-23-24-SUMPS	PAD-23-24-SUMPS	PAD-23-S-CTR	PAD-23-SW	PAD-24-0-S-CTR	PAD-24-0-SE	PAD-24-24-0-S	PAD-24-S-CTR	PAD-A-S-CTR	PAD-A-SE	PAD-A-SUMP	PAD-AB-S
Field Sample ID						PAD-23-24-S-0-0.5	PAD-23-24-SUMPS-0-0.5-D	PAD-23-24-SUMPS-0-0.5	PAD-23-S-CTR-0-0.5	PAD-23-SW-0-0.5	PAD-24-0-S-CTR-0-0.5	PAD-24-0-SE-0-0.5	PAD-24-24-0-S-0-0.5	PAD-24-S-CTR-0-0.5	PAD-A-S-CTR-0-0.5	PAD-A-SE-0-0.5	PAD-A-SUMP-2-3	PAD-AB-S-0-0.5
Date Sampled						08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/28/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose						FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Start Depth - End Depth						0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	2 - 3	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	Source of CPS value	Closure Plan CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Dimethyl Phthalate	8270D	N	MG/KG	MDL	MDL	<0.078	<0.074	<0.074	<0.081	<0.4	**0.42**	<0.88	**0.13 J**	<0.077	<0.074	<0.078	<0.08	<0.08
Phenanthrene	8270D	N	MG/KG	MDL	MDL	**0.069**	**0.025**	**0.043**	**0.022**	**0.14**	**0.061**	**0.16 J**	**0.024**	**0.098**	**0.31**	**0.34**	**0.033**	**0.12**
Alpha Chlordane	8081B	N	MG/KG	MDL	MDL	**0.0046 J**	**0.00020 J**	**0.00025 J**	**0.00046 J**	**0.00040 J**	<0.035	<0.037	**0.0013 J**	**0.0046 J**	**0.0032 J**	<0.0040	<0.00021	<0.0022
Chlordane (analytical)	8081B	N	MG/KG	MDL	MDL	<0.0047	<0.0044	<0.0045	<0.0049	<0.0049	<0.024	<0.026	<0.0047	<0.023	<0.0044	<0.093	<0.0048	<0.0048
delta-BHC	8081B	N	MG/KG	MDL	MDL	<0.00052	<0.00050	<0.00050	<0.00055	**0.0018**	<0.0026	<0.0030	<0.00053	<0.0026	<0.00050	<0.01	<0.00054	<0.00054
Endosulfan I	8081B	N	MG/KG	MDL	MDL	**0.0031 J**	<0.00024	<0.00024	<0.00027	**0.00037 J**	**0.0041 J**	**0.0044 J**	**0.0039 J**	**0.0043 J**	<0.00024	<0.0051	<0.00027	<0.00026
Endosulfan II	8081B	N	MG/KG	MDL	MDL	**0.015 J**	<0.0012	<0.0012	<0.0013	<0.0013	**0.012 J**	<0.025	<0.0065	**0.017**	**0.0012 J**	<0.026	<0.0013	<0.0013
Gamma Chlordane	8081B	N	MG/KG	MDL	MDL	**0.014 J**	<0.00028	**0.00034 J**	<0.00030	**0.00052 J**	<0.0015	<0.0016	**0.0079 J**	**0.014**	**0.00053 J**	<0.0058	<0.00030	**0.0015 J**
2-Acetylaminofluorene	8270D	N	MG/KG	RSL	0.6 MG/KG	<0.12	<0.11	<0.11	<0.12	<0.61	<0.12	<1.3	<0.12	<0.12	<0.11	<0.12	<0.12	<0.12
3-Methylcholanthrene	8270D	N	MG/KG	RSL	0.1 MG/KG	<0.031 UJ	<0.03 UJ	<0.03	<0.032 UJ	<0.16 UJ	<0.031	<0.35	<0.031	<0.031	<0.029 UJ	<0.031 UJ	<0.032 UJ	<0.032 UJ
N-Nitroso-Di-N-Butylamine	8270D	N	MG/KG	RSL	0.46 MG/KG	<0.078	<0.074	<0.074	<0.081	<0.4	<0.079	<0.88	<0.079	<0.077	<0.074	<0.078	<0.08	<0.08
N-Nitrosodiethylamine	8270D	N	MG/KG	RSL	0.015 MG/KG	<0.023	<0.022	<0.022	<0.024	<0.12	<0.024	<0.26	<0.024	<0.023	<0.022	<0.023	<0.024	<0.024
Chromium	6020A	N	MG/KG	MDL	MDL	**89**	**26**	**23 J**	**50 J**	**52 J**	**63 J**	**76**	**50**	**73 J**	**63**	**58**	**94**	**81**
Calcium	6020A	N	MG/KG	MDL	MDL	**3800**	**1300**	**940**	**1100**	**6100**	**5500**	**5900**	**4100**	**4300**	**1800 J**	**1500 J**	**2200 J**	**1500 J**
Arsenic	6020A	N	MG/KG	RSL	3 MG/KG	**13**	**4.7**	**4.8 J**	**41 J**	**8.2 J**	**17 J**	**28**	**25**	**20 J**	**7.2 J**	**5.5 J**	**5.2 J**	**9.5 J**

Notes:

##	Yellow shading indicates result exceeds the criteria
##	Gray shading indicates non-detect exceeds the criteria

Bolded value = Detected value
< = Non-detect value
MG/KG = Milligrams per kilogram
J = Report result is an estimate
UJ = Not detected. Reporting limit may not be accurate or precise
R = Sample result rejected

Table 2
Incinerator Area Storage Pad Soil Results, Closure Plan identified CPS, Request to Use Alternate Criteria

Location ID						PAD-B-NW	PAD-B-S-CTR	PAD-B-SUMP	PAD-B-SW	PAD-B-W-CTR	PAD-G-E-CTR	PAD-G-E-NE	PAD-G-E-SE	PAD-G-S-CTR	PAD-G-S-SE	PAD-G-S-SW	PAD-G-S-SW
Field Sample ID						PAD-B-NW-0-0.5	PAD-B-S-CTR-0-0.5	PAD-B-SUMP-1.5-2	PAD-B-SW-0-0.5	PAD-B-W-CTR-0-0.5	PAD-G-E-CTR-0-0.5	PAD-G-E-NE-0-0.5	PAD-G-E-SE-0-0.5	PAD-G-S-CTR-0-0.5	PAD-G-S-SE-0-0.5	PAD-G-S-SW-0-0.5-D	PAD-G-S-SW-0-0.5
Date Sampled						08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020	08/27/2020
Sample Purpose						FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS
Start Depth - End Depth						0 - 0.5	0 - 0.5	1.5 - 2	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Parameter Name	Analytical Method	Filtered	Report Units	Source of CPS value	Closure Plan CPS_SOIL	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
Dimethyl Phthalate	8270D	N	MG/KG	MDL	MDL	<0.073	<0.076	<0.081	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078 UJ
Phenanthrene	8270D	N	MG/KG	MDL	MDL	**0.023**	**0.06**	**16**	**0.24**	**0.079**	**0.22**	**0.035 J**	**0.17 J**	**0.32**	**0.16 J**	**0.059 J**	**0.026**
Alpha Chlordane	8081B	N	MG/KG	MDL	MDL	<0.00019	<0.00019	**0.01**	**0.00054 J**	**0.0013**	**0.0018 J**	**0.00079 J**	**0.0012**	<0.00097	<0.00094	**0.0096 J**	**0.0034 J**
Chlordane (analytical)	8081B	N	MG/KG	MDL	MDL	<0.0044	<0.0046	**0.19**	<0.0048	<0.0046	<0.022	**0.0088 J**	<0.0047	<0.023	<0.022	**0.062**	**0.025**
delta-BHC	8081B	N	MG/KG	MDL	MDL	<0.00049	<0.00051	<0.00054	<0.00054	<0.00052	<0.0024	<0.00048	<0.00053	<0.0026	<0.0025	<0.00052	<0.00053 UJ
Endosulfan I	8081B	N	MG/KG	MDL	MDL	<0.00024	<0.00025	<0.00038	<0.00027	**0.00048 J**	<0.0012	<0.00023	<0.00026	<0.0013	<0.0012	**0.00059 J**	<0.00026 UJ
Endosulfan II	8081B	N	MG/KG	MDL	MDL	<0.0012	<0.0013	<0.0013	<0.0013	<0.0013	<0.0060	<0.0012	<0.0013	<0.0063	<0.0061	<0.0013	<0.0013 UJ
Gamma Chlordane	8081B	N	MG/KG	MDL	MDL	<0.00027	<0.00028	**0.027**	**0.0011**	<0.0014	**0.0015 J**	**0.0013**	**0.0013**	<0.0014	<0.0014	**0.01 J**	**0.0038 J**
2-Acetylaminofluorene	8270D	N	MG/KG	RSL	0.6 MG/KG	<0.11	<0.11	<0.12	<0.12	<0.12	<1.1	<0.52	<1.2	<1.2	<1.1	<0.58	<0.12
3-Methylcholanthrene	8270D	N	MG/KG	RSL	0.1 MG/KG	<0.029 UJ	<0.031 UJ	<0.032 UJ	<0.032 UJ	<0.031 UJ	<0.29 UJ	<0.14 UJ	<0.32 UJ	<0.31 UJ	<0.3 UJ	<0.15 UJ	<0.031 UJ
N-Nitroso-Di-N-Butylamine	8270D	N	MG/KG	RSL	0.46 MG/KG	<0.073	<0.076	<0.081	<0.08	<0.077	<0.73	<0.35	<0.79	<0.77	<0.74	<0.38	<0.078
N-Nitrosodiethylamine	8270D	N	MG/KG	RSL	0.015 MG/KG	<0.022	<0.023	<0.024	<0.024	<0.023	<0.22	<0.1	<0.24	<0.23	<0.22	<0.12	<0.023
Chromium	6020A	N	MG/KG	MDL	MDL	**15**	**52**	**55**	**43**	**20**	**45**	**41**	**41**	**79**	**70**	**39**	**52**
Calcium	6020A	N	MG/KG	MDL	MDL	**800 J**	**1200 J**	**2900 J**	**2000 J**	**1700 J**	**8100 J**	**6600 J**	**14000 J**	**20000 J**	**19000 J**	**9400 J**	**11000 J**
Arsenic	6020A	N	MG/KG	RSL	3 MG/KG	**1.5 J**	**5.9 J**	**7.6 J**	**5.5 J**	**4.6 J**	**3.0 J**	**1.5 J**	**3.3 J**	**4.7 J**	**4.8 J**	**6.6 J**	**4.8 J**

Notes:

##	Yellow shading indicates result exceeds the criteria
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Bolded value = Detected value
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Table 2
Incinerator Area Storage Pad Soil Results, Closure Plan identified CPS, Request to Use Alternate Criteria

Location ID / Field Sample ID / Date Sampled / Sample Purpose / Start Depth - End Depth						Request to Use Alternate Criteria			
Parameter Name	Analytical Method	Filtered	Report Units	Source of CPS value	Closure Plan CPS_SOIL	Surrogate Constituent	CAS#	Surrogate Indust RSL (mg/kg)	Support for Change
Dimethyl Phthalate	8270D	N	MG/KG	MDL	MDL	Diethyl phthalate	84-66-2	660000	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk values be used as the CPS in-place of the MDL-CPS.
Phenanthrene	8270D	N	MG/KG	MDL	MDL	Anthracene	120-12-7	230000	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk values be used as the CPS in-place of the MDL-CPS.
Alpha Chlordane	8081B	N	MG/KG	MDL	MDL	Chlordane (technical)	12789-03-6	7.7	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk values be used as the CPS in-place of the MDL-CPS.
Chlordane (analytical)	8081B	N	MG/KG	MDL	MDL	Chlordane (technical)	12789-03-6	7.7	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk values be used as the CPS in-place of the MDL-CPS.
delta-BHC	8081B	N	MG/KG	MDL	MDL	beta-BHC	319-85-7	1.3	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk values be used as the CPS in-place of the MDL-CPS.
Endosulfan I	8081B	N	MG/KG	MDL	MDL	Endosulfan	115-29-7	7000	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk values be used as the CPS in-place of the MDL-CPS. Surrogate constituent Endosulfan to be compared against the sum of Endosulfan I + Endosulfan II analytical results per email from Melissa A. Ferree (DNREC) to Mary L. Glowacki (DuPont) dated January 7, 2021.
Endosulfan II	8081B	N	MG/KG	MDL	MDL	Endosulfan	115-29-7	7000	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk values be used as the CPS in-place of the MDL-CPS. Surrogate constituent Endosulfan to be compared against the sum of Endosulfan I + Endosulfan II analytical results per email from Melissa A. Ferree (DNREC) to Mary L. Glowacki (DuPont) dated January 7, 2021.
Gamma Chlordane	8081B	N	MG/KG	MDL	MDL	Chlordane (technical)	12789-03-6	7.7	Laboratory MDL is not a risk based value. Surrogates are chemically and toxicologically similar. DuPont requests that the identified surrogate RSL risk values be used as the CPS in-place of the MDL-CPS.
2-Acetylaminofluorene	8270D	N	MG/KG	RSL	0.6 MG/KG	na	na	na	The CPS = RSL. All results were non-detect. However due to sample interference, for some samples the MDL was slightly higher than the RSL. DuPont requests that, where all sample results are non-detect and there is no indication that the constituent is present, it can be concluded that the constituent non-detects are not a concern.
3-Methylcholanthrene	8270D	N	MG/KG	RSL	0.1 MG/KG	na	na	na	The CPS = RSL. All results were non-detect. However due to sample interference, for some samples the MDL was slightly higher than the RSL. DuPont requests that, where all sample results are non-detect and there is no indication that the constituent is present, it can be concluded that the constituent non-detects are not a concern.
N-Nitroso-Di-N-Butylamine	8270D	N	MG/KG	RSL	0.46 MG/KG	na	na	na	The CPS = RSL. All results were non-detect. However due to sample interference, for some samples the MDL was slightly higher than the RSL. DuPont requests that, where all sample results are non-detect and there is no indication that the constituent is present, it can be concluded that the constituent non-detects are not a concern.
N-Nitrosodiethylamine	8270D	N	MG/KG	RSL	0.015 MG/KG	na	na	na	The CPS = RSL. All results were non-detect. However MDL was slightly higher than the RSL. DuPont requests that, since the RSL-CPS value cannot be reached using closure plan-identified and agency-accepted laboratory methodology, the MDL for N-Nitrosodiethylamine should be used as the CPS.
Chromium	6020A	N	MG/KG	MDL	MDL	Chromium, Total	7440-47-3	DEL HSCA = 214	Total Chromium does not have an EPA RSL soil value; the MDL was selected as the CPS. However, the Delaware HSCA does have a background threshold value for total chromium. DuPont requests that Delaware's HSCA value for total chromium be used in-place of the laboratory MDL.
Calcium	6020A	N	MG/KG	MDL	MDL	Calcium	7740-70-2	RDA Based Value = 2,500,000	Calcium does not have an EPA RSL soil value; the MDL was selected as the CPS. However, calcium occurs naturally and is an essential nutriant. Based on the recommended daily alllowance (RDA), DuPont requests that an RDA based value be used as the Calcium CPS in place of the laboratory MDL.
Arsenic	6020A	N	MG/KG	RSL	3 MG/KG	Arsenic	7440-38-2	DEL HSCA = 11	EPA RSL values for arsenic = 3 mg/kg. However, based on the studies performed by the State of Delaware, and the higher natural background arsenic concentrations present, DuPont requests that the Delaware HSCA background threshold value of 11 ppm be used in place of the EPA RSL.

Notes:

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##	Gray shading indicates non-detect exceeds the criteria

Groups similar alternate criteria recommendations.

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J = Report result is an estimate
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R = Sample result rejected

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DIVISION OF WASTE AND HAZARDOUS SUBSTANCES
89 KINGS HIGHWAY
DOVER, DE 19901

COMPLIANCE & PERMITTING

PHONE: (302) 739-9403
FAX: (302) 739-5060

FILE COPY

January 14, 2021

Ms. Mary Glowacki
Environmental Compliance Manager
DuPont Experimental Station
P.O. Box 80249
Wilmington, DE 19880-0249

Subject: Approval of Alternative Closure Performance Standards
Reference: DED003930807; File Code: 15

Dear Ms. Glowacki:

The Delaware Department of Natural Resources and Environmental Control (DNREC), Compliance and Permitting Section (CAPS) is in receipt of your January 12, 2021 letter requesting approval to utilize alternative closure performance standards. These alternative standards are necessary to address instances where there is not a risk-based screening level set by the United States Environmental Protection Agency (USEPA) for a certain constituent or instances where the laboratory method detection limit is higher than the risk-based screening level identified for certain constituents.

The CAPS consulted with staff in DNREC's Remediation Section and concurs that the alternative closure performance standards proposed by DuPont are appropriate. As such, the CAPS approves the use of the alternative closure performance standards proposed in DuPont's January 12, 2021 letter.

Should you have any questions, please do not hesitate to contact Melissa A. Ferree of the CAPS at (302) 739-9403.

Sincerely,

Jason W. Sande
Program Administrator
Compliance and Permitting Section

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MAF2101.doc

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DIVISION OF WASTE AND HAZARDOUS SUBSTANCES
89 KINGS HIGHWAY
DOVER, DE 19901

COMPLIANCE & PERMITTING

PHONE: (302) 739-9403
FAX: (302) 739-5060

February 9, 2021

Ms. Mary Glowacki
Environmental Compliance Manager
DuPont Experimental Station
P.O. Box 80249
Wilmington, DE 19880-0249

Subject: Comments on Storage Pad Closure Report
Reference: DED003930807; File Code: 15

Dear Ms. Glowacki:

The Delaware Department of Natural Resources and Environmental Control (DNREC), Division of Waste and Hazardous Substances (DWHS), Compliance and Permitting Section (CAPS) is in receipt of DuPont's February 3, 2021 closure report related to the closure of on-site hazardous waste storage pads. The CAPS consulted with the Division's Remediation Section to develop the following comments:

1. DuPont requested to utilize cyanide as a surrogate for amenable cyanide related to soil samples. The CAPS approves this request.

2. DuPont identified four constituents that exceeded the approved closure performance standards and provided justification as to why the results were not a concern. The hazardous waste closure process relies on a risk-based clean closure standard. As such, the CAPS will require DuPont to determine the human health risk associated with the four constituents by using the Risk Assessment Information System (RAIS) Risk Calculator, which can be found here: https://rais.ornl.gov/.

3. DuPont identified that soil sampling results show arsenic concentrations above the closure performance standard and attributed the elevated arsenic concentrations to the use of historic fill material during construction. DuPont concludes that there is no concern related to the elevated arsenic concentrations, as the elevated concentrations were previously identified during a 1990 RCRA Facility Investigation (RFI). However, the closure report does not describe actions required at that time to address the elevated concentrations. In addition to including arsenic in the risk calculation identified in Comment #2, the CAPS believes the closure report should be modified to indicate that arsenic concentrations from recent sampling events are not higher than those identified in the 1990 RFI. Additionally, the closure report should describe that while elevated arsenic levels were identified historically, EPA concluded the area met risk-based clean closure standards based on industrial site use and that a deed restriction is in place in the area. The deed restriction will ultimately be transitioned to an environmental covenant.

4. DuPont identified four constituents that exceeded the approved closure performance standards for rinsate generated from the cleaning of Pad C and provided justification as to why the constituents were not a concern. Given the Department relies on a risk-based clean closure standard, the CAPS will require DuPont to determine the human health risk associated with the four constituents by using the RAIS Risk Calculator identified above. The CAPS understands that there is not a scenario in the RAIS Risk Calculator that describes the activities at the storage pad, as the rinsate is not being ingested or used for showering. However, the CAPS suggests using the Indoor Worker Tapwater scenario initially as a very conservative model to identify potential risk. The exposure criteria assumptions in this model may be modified to more accurately describe the exposure duration, etc. based on site activities.

Should you have any questions, please do not hesitate to contact Melissa A. Ferree of the CAPS at (302) 739-9403.

Sincerely,

Jason W. Sunde
Program Administrator
Compliance and Permitting Section

JWS:MAF:cr
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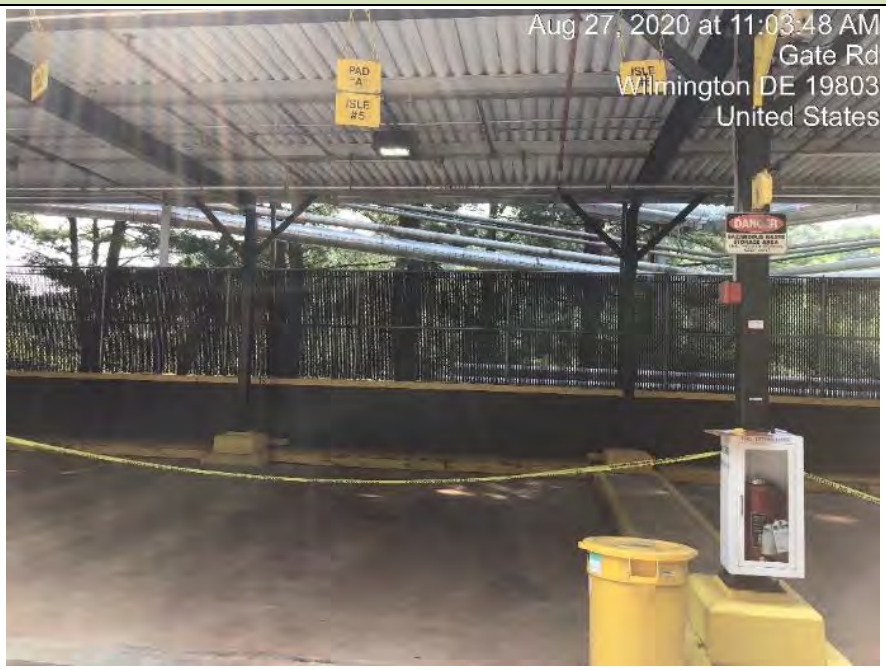
Appendix B

PE Inspection Photographic Log

AECOM

4051 Ogletown Rd, Suite 300
Newark, DE 19713
(302) 781-5900

STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad A Date: 08/27/20 Direction: South Description: Western half of Pad A. Stains of unknown origin were observed. Therefore a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad A Date: 08/27/20 Direction: South Description: Eastern half of Pad A. Stains of unknown origin were observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

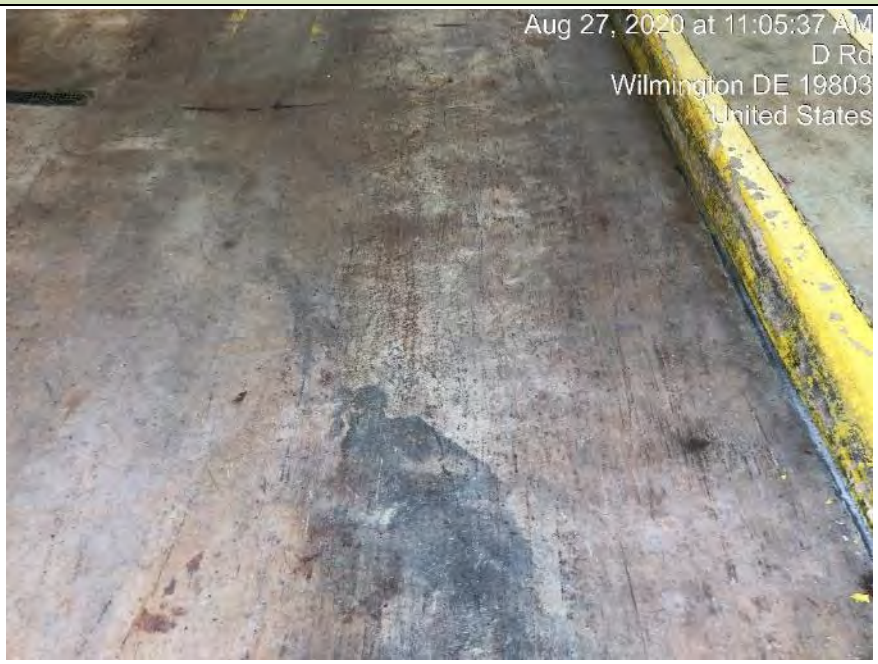
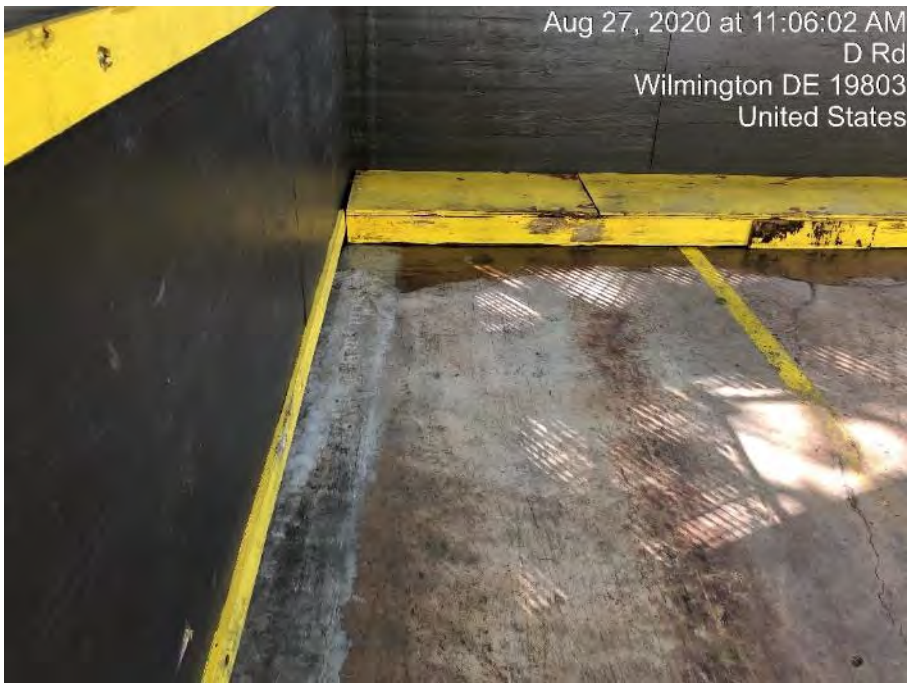
AECOM

4051 Ogletown Rd, Suite 300
Newark, DE 19713
(302) 781-5900

STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad A Date: 08/27/20 Direction: South Description: Brown staining of unknown origin were observed in the northwestern corner of Pad A. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad A Date: 08/27/20 Direction: South Description: Stains of unknown origin were observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

AECOM

4051 Ogletown Rd, Suite 300
Newark, DE 19713
(302) 781-5900

STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad A Date: 08/27/20 Direction: South Description: Stains of unknown origin were observed in the northwestern corner of Pad A. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad A Date: 08/27/20 Direction: South Description: Pooled water from housekeeping rinse of pads was observed in the southeastern corner of Pad A, not staining. Unidentified brown staining was observed in the area. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad A Date: 08/27/20 Direction: South Description: Close up view of black staining of unknown origin was observed in the southeast corner of Pad A. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad A Date: 08/27/20 Direction: South Description: Close up view of circular black staining of unknown origin was observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad B Date: 08/27/20 Direction: Southwest Description: Staining of unknown origin was observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad B Date: 08/27/20 Direction: South Description: Close up view of staining of unknown origin was observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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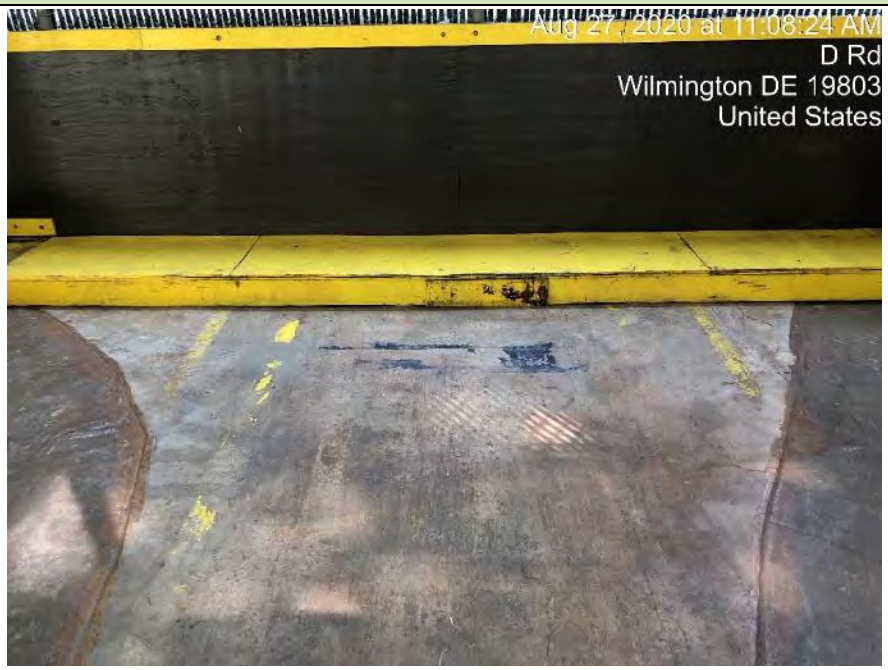
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad B Date: 08/27/20 Direction: South Description: Staining of unknown origin was observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad B Date: 08/27/20 Direction: NA Description: Close up view of staining of unknown origin was observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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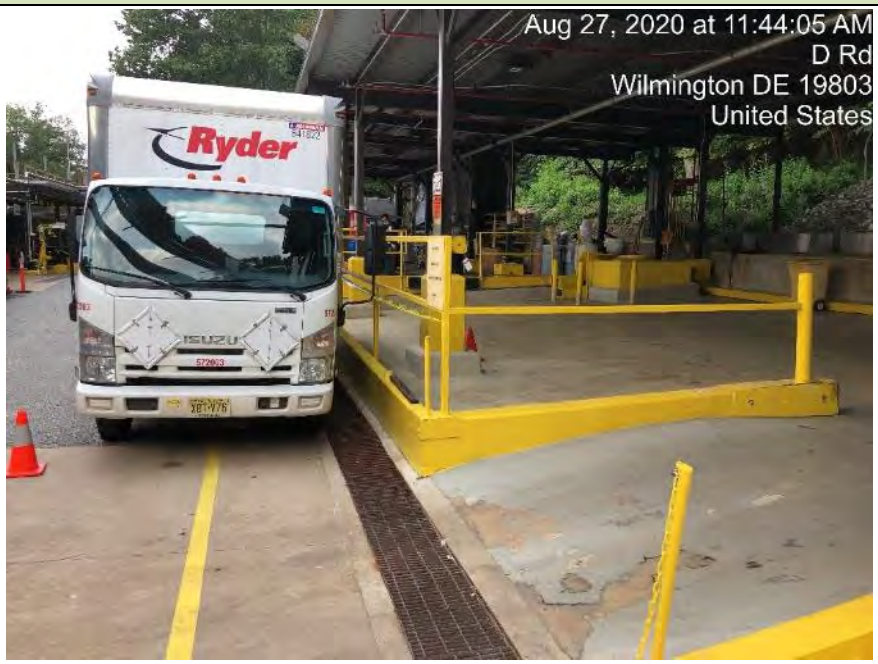
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad C Date: 08/27/20 Direction: West Description: Entrance to Pad C. Staining of unknown origin was observed (see additional photographs). Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad C Date: 08/27/20 Direction: North Description: Ramp leading to into Pad C. Staining and spots of unknown origin were observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad C Date: 08/27/20 Direction: North Description: Tire marks believed from forklift and other staining of unknown origin were observed in northeastern corner of Pad C. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad C Date: 08/27/20 Direction: Southwest Description: Spill kits (located in wheeled containers) and forklift in Pad C. Staining and spots of unknown origin were observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad C Date: 08/27/20 Direction: NA Description: Forklift tire marks and unidentified black spotting were observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad C Date: 08/27/20 Direction: NA Description: Circular brown stains associated with drum ring rust and staining of unknown origin were observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad C Date: 08/27/20 Direction: Southeast Description: Staining of unknown origin was observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad C Date: 08/27/20 Direction: North Description: Black staining believed to be from forklift tires. Parallel brown stains believed to be associated with rust from forklift forks. Staining of unknown origin was observed. Therefore, a clean debris surface was **not** present as defined by 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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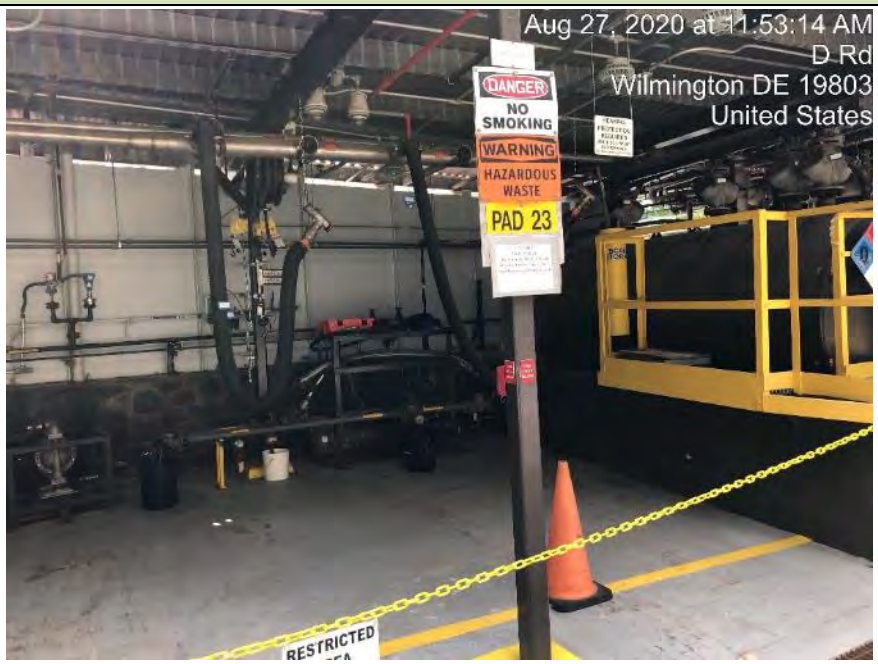
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad 23 Date: 08/27/20 Direction: Southeast Description: Western half of Pad 23. The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad 23 Date: 08/27/20 Direction: Southeast Description: Eastern half of Pad 23. The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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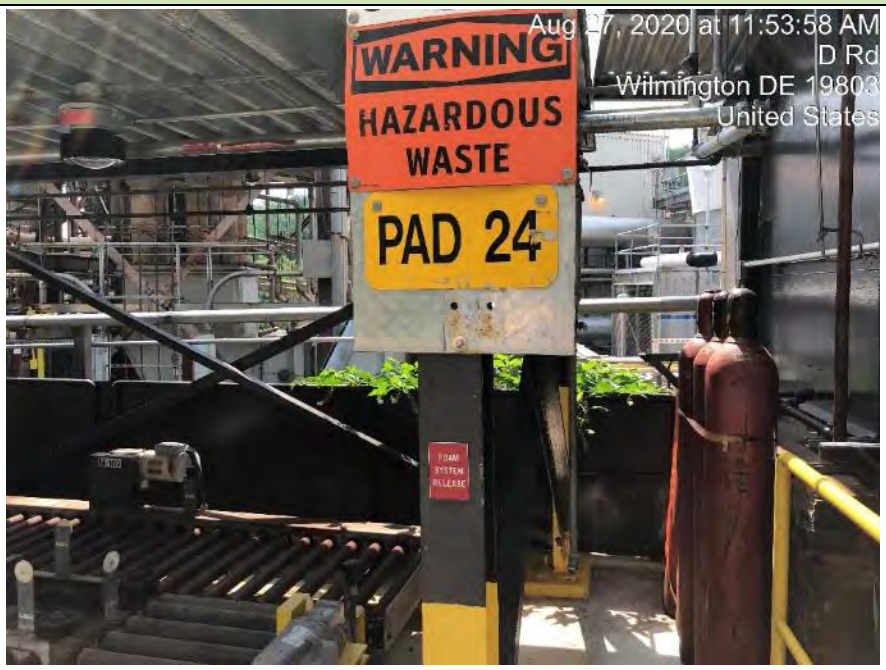
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad 24 Date: 08/27/20 Direction: South Description: Western portion of Pad 24. The roller surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad 24 Date: 08/27/20 Direction: East Description: The roller surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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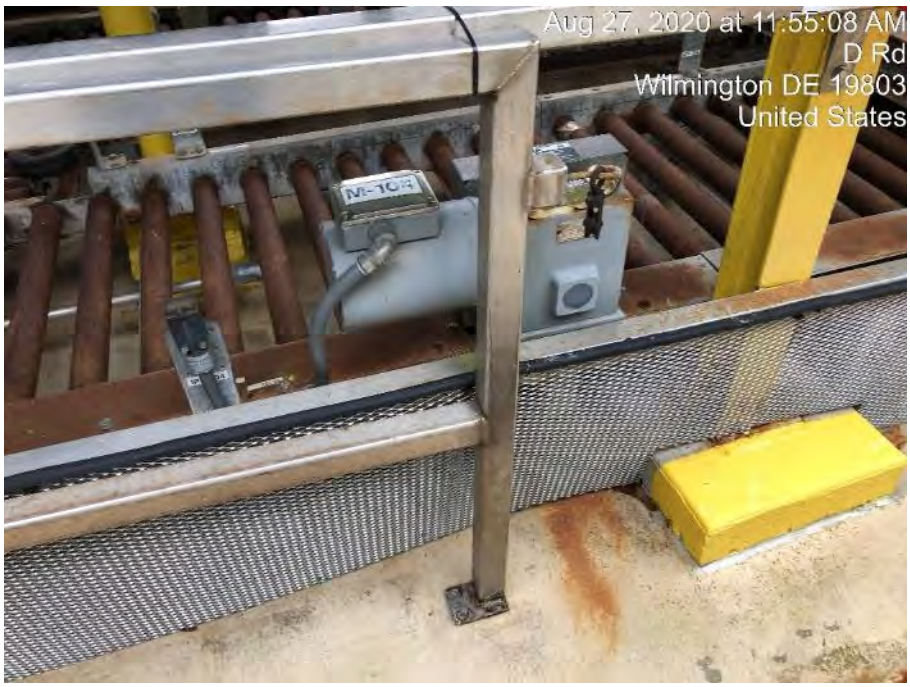
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad 24 Date: 08/27/20 Direction: South Description: Brown staining is believed to be rust associated with drum conveyor rollers. The pad and roller surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad 24 Date: 08/27/20 Direction: South Description: Additional brown staining is believed to be rust associated with drum conveyor rollers. The pad and roller surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20 and 1/25/21**
SITE PHOTOGRAPH	
Title: Pad 24 Date: 1/25/21 Direction: South Description: View post drum conveyor removal. The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad 24-0 Date:8/27/20 Direction: South Description: Black substance at base of drum conveyor was determined to be grease associated with rollers. The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad 24-0 Date: 08/27/20 Direction: West Description: Water from housekeeping in foreground and background. Staining at outlet of drum conveyor is believed to be oil associated with conveyor rollers. The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad 24-0 Date: 08/27/20 Direction: South Description: Orange/brown material beneath rollers is believed to be rust associated with conveyor rollers. The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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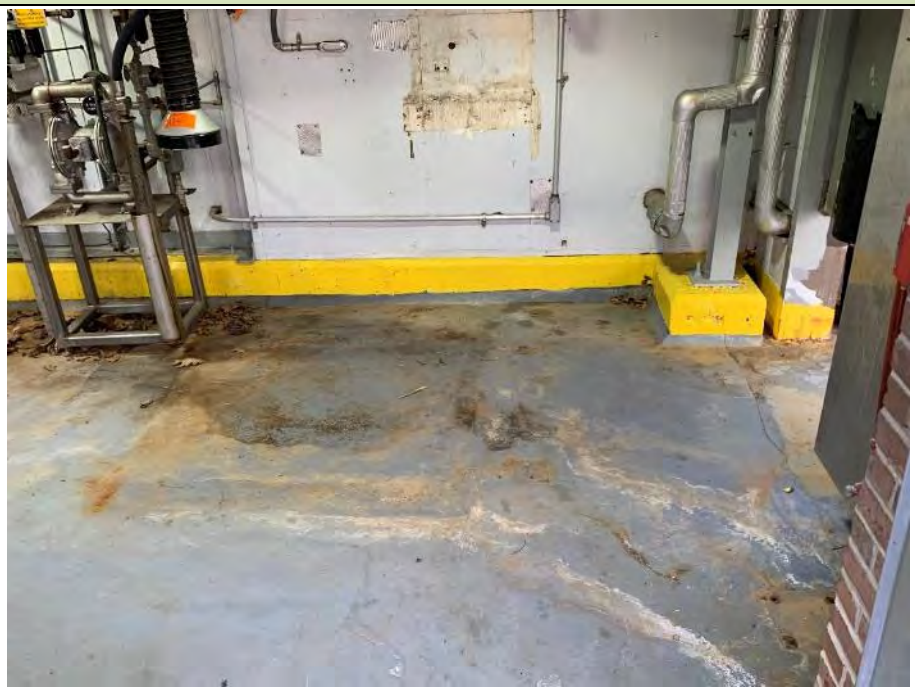
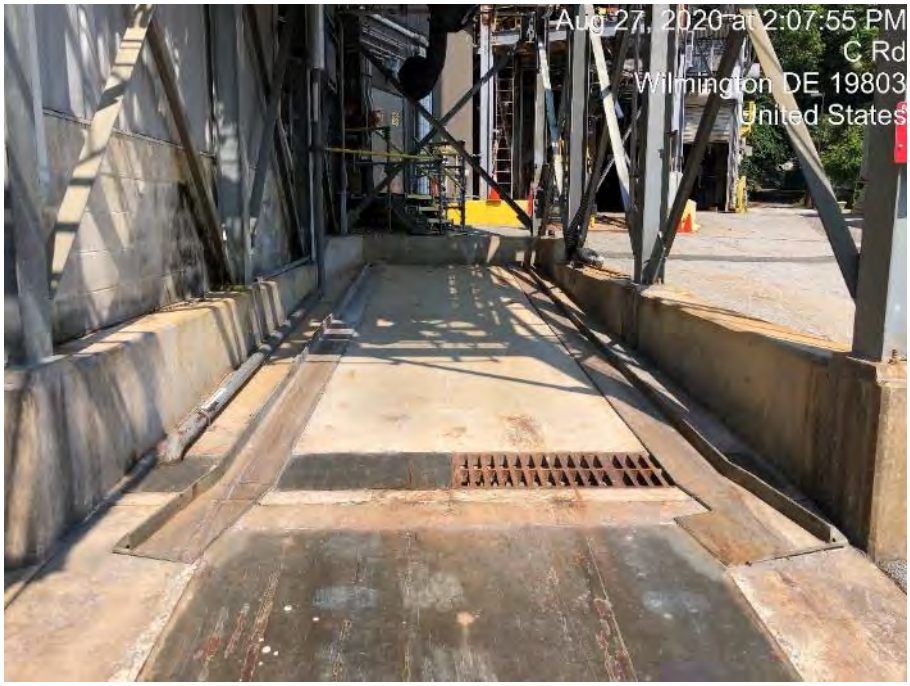
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20 and 1/25/21**
SITE PHOTOGRAPH	
Title: Pad 24-0 Date: 1/25/21 Direction: South Description: View post drum conveyor removal. The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad D Date: 08/27/20 Direction: East Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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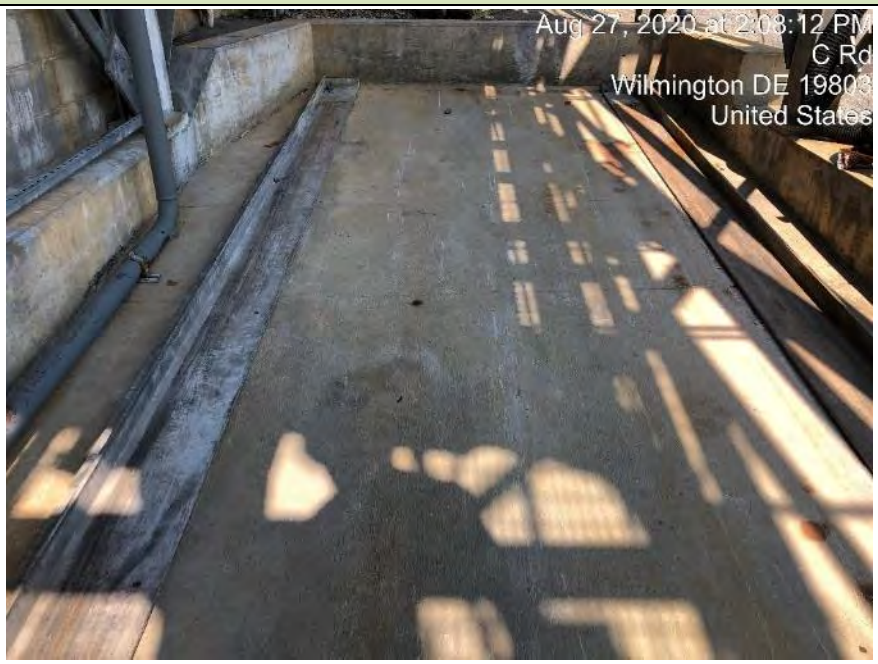
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad D Date: 08/27/20 Direction: East Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad E Date: 08/27/20 Direction: North Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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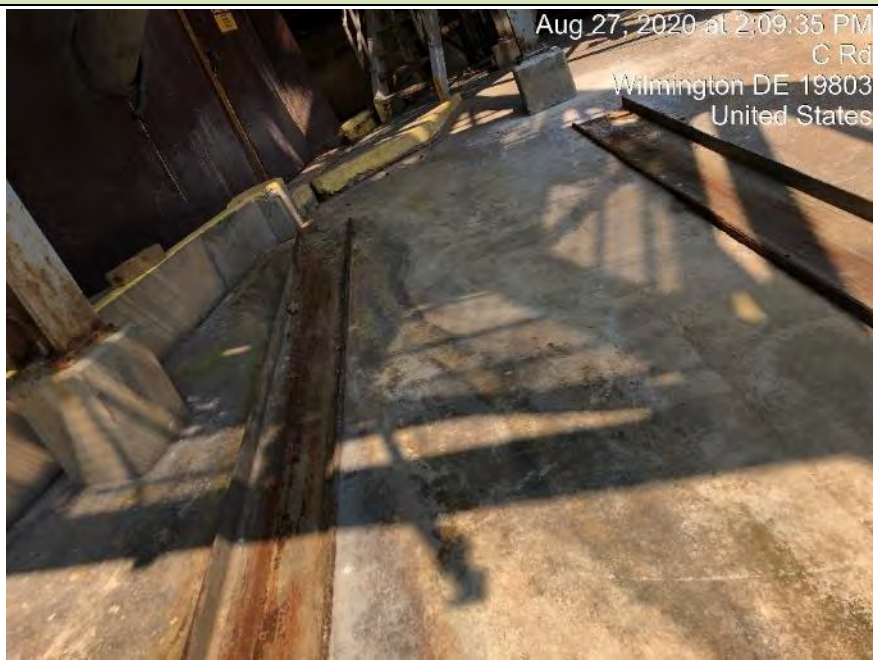
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad E Date: 08/27/20 Direction: East Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad E Date: 08/27/20 Direction: West Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad F Date: 08/27/20 Direction: East Description: The surface showed evidence of weathering and wear from normal operations and concrete from repairs; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad F Date: 08/27/20 Direction: South Description: Water from housekeeping was observed. The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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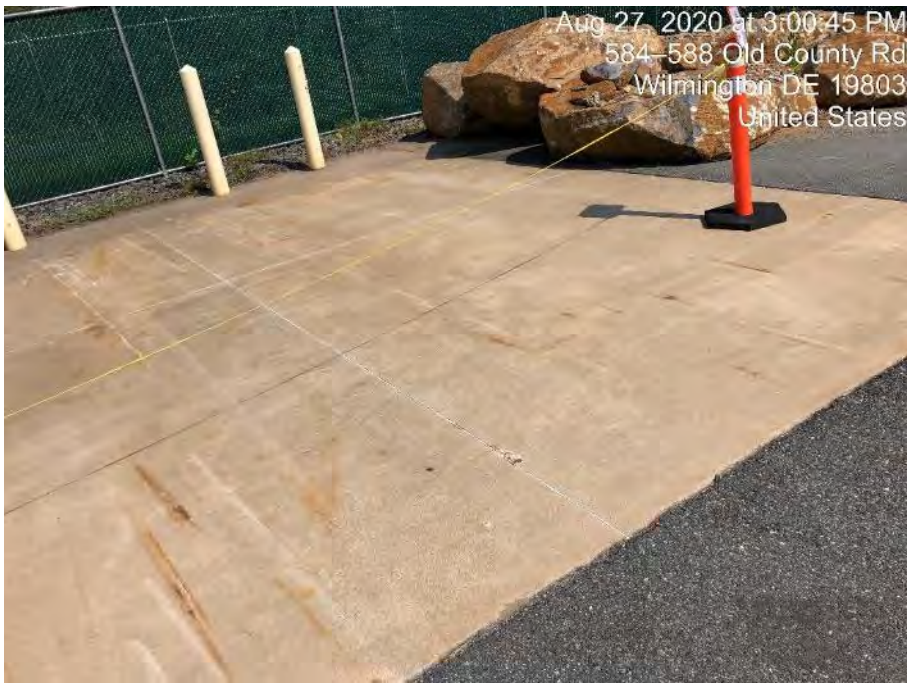
STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad G, adjacent to guard station Date: 08/27/20 Direction: Northeast Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad G, adjacent to guard station Date: 08/27/20 Direction: South Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

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STORAGE PAD INSPECTION FOR CLOSURE	
PROJECT: DuPont Experimental Station – Waste Storage Pad Inspection	**DATE: 08/27/20**
SITE PHOTOGRAPH	
Title: Pad G, adjacent to salt containment building Date: 08/27/20 Direction: Northeast Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	
Title: Pad G, adjacent to salt containment building Date: 08/27/20 Direction: South Description: The surface showed evidence of weathering and wear from normal operations; however, when viewed without magnification, it was determined to be free of all visible contaminated soil and hazardous waste. Therefore, a clean debris surface was present in accordance with 7 DE Admin Code 1302 Section 268.45, Table 1, Footnote 3.	

Appendix C

Rinsate Sampling Addendum

Waste Storage Pad Rinsate Sampling for Pads A, B, C - Addendum to the Soil Sampling Work Plan for Closure of Waste Storage Pads A, B, G, 23, 24, 24-0, and the Facility Incinerator

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Prepared for:
DuPont Specialty Products USA, LLC

Submitted by:
AECOM
Sabre Building
Suite 300
4051 Ogletown Road
Newark, DE 19713

Project Number: 60633074
Date: September 2020

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Table 1 Target Analytes and Closure Performance Standards

Table 2 Rinsate Sample Identification and Locations: Waste Storage Pads

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Figure 1 Site Location Map

Figure 2 General Location of Storage Pads

Figure 3 Pads A, B, and C – Proposed Rinsate Sample Locations for Pad Closure

1.0 Introduction

The DuPont Experimental Station, located in Wilmington, Delaware (see Figure 1), has elected to close the facility's hazardous waste incinerator, including associated components, and waste storage pads. As part of closure related activities, characterization soil samples were collected from areas adjacent to Pads A, B, G, 23, 24, and 24-0 to characterize pad area soils for closure determination.

As part of pad inspection, it was determined that a clean debris surface was not present at the start of closure for Pads A, B, and C. In accordance with Section II-6 B.4 of State Permit HW04j22, modified 7/10/2020, these pads will be rinsed. The rinse water will be sampled and analyzed for the target analytes listed in Table 1

This document presents the rinsate collection work plan detailing the method of rinsate sample collection, the proposed rinsate sample locations, and associated laboratory analytical parameters.

This work plan presents the following information in the identified sections:

- Section 2 describes the pertinent background information associated with this project.
- Section 3 presents the project purpose and objectives.
- Section 4 describes the field activities to be performed and the laboratory analytical parameters associated with samples to be collected.
- Section 5 summarizes the quality assurance/quality control samples associated with this project
- Section 6 summarizes the anticipated health and safety procedures.
- Section 7 summarizes the anticipated waste management procedures.
- Section 8 presents the project schedule.

2.0 Background

The 150-acre [0.61 square kilometers (km^2)] campus-style Experimental Station, located in Wilmington, Delaware, serves as the primary research and development facility for DuPont. In 1980 the Experimental Station submitted to the United States Environmental Protection Agency (EPA) a Resource Conservation and Recovery Act (RCRA) Hazardous Waste Part A Permit Application; the subsequent RCRA Hazardous Waste Part B Permit application was submitted in 1983.

In 1985 the State of Delaware, Department of Natural Resources and Environmental Control (DNREC) issued a RCRA hazardous waste storage permit to DuPont for the Experimental Station. The one year waste storage pads associated with this permit include Pads A, B, C, 23, 24, 24-0, D, E, F, and G.

This RCRA permitted Hazardous Waste Treatment facility operated from 1985 into 2020. In April 2020, DuPont notified DNREC of its intent to cease operations.

A visual inspection of the pads was conducted on 8/27/2020 by a Delaware licensed professional engineer. Storage Pads A, B, and C did not have a clean debris surface at the time of inspection. In accordance with section II-6 section B.4 of the permit modification, Pads A, B, and C will be rinsed. Rinsate will be collected and submitted for laboratory analysis for the analytes listed in Table 1.

3.0 Purpose and Objective

The purpose and objective of the rinsate sampling activities are as follows:

- Purpose: For Pads A, B, and C collect and submit rinsate samples for laboratory analysis for the target analytes listed in Table 1.
- Objective: Determine if rinsate meets the closure performance standards identified in Table 1.

Based on the above purpose and objective, rinsate samples will be collected following the procedures presented in Section 4.0.

4.0 Field Activities: Rinsate Sampling

Rinsate samples will be collected from waste storage pads A, B, and C. Samples will be collected to determine if rinsate collected from each waste storage pad will meet the closure performance standards for rinsate provided in Table 1.

Rinsate samples will be collected using laboratory supplied rectangular plastic jars. The rinsate will be transferred from the collection jar into laboratory sample containers. Each sample location will have a dedicated sample collection jar.

Details regarding soil sample location and associated sample analytical parameters are discussed in Sections 4.1 and 4.2.

4.1 Waste Storage Pad Rinsate Sampling

AECOM will collect rinsate samples from waste storage pads A, B, and C. Floor drains and sumps will be plugged and or dammed prior to rinsing each pad. A garden hose will be used to rinse each pad. Samples will be collected for each pad as follows:

- Pad A – Two floor drains will be plugged. Rinsate from above each floor drain will be poured into a large stainless steel pot or bowl to generate a composite sample; if a large enough stainless steel pot of bowl is not available a new 5 gallon plastic bucket will be used. Rinsate from the composite sample will be collected from the container and transferred to laboratory supplied sample containers for analysis.
- Pad B – A single floor drain will be plugged. A rinsate sample will be collected from above the floor drain and poured directly into laboratory supplied containers.
- Pad C – Pad C is equipped with a sump and sump pump rather than a floor drain. The sump will be dammed prior to rinsing. Samples will be collected adjacent to the dammed sump and poured directly into laboratory supplied containers.

Storage pad rinsate sample locations and sample~~s~~ identification names are noted in Figure 3. Rinsate samples locations and sample identification are listed in Table 2.

4.1.1 Waste Storage Pad Rinsate Sample Evaluation

Closure of the storage pads must meet the requirements of the closure performance standards found in Delaware Regulations Governing Hazardous Waste (DRGHW) 264.111. The Closure Performance Standard (CPS) for the storage pad rinsate samples will be the maximum contamination level (MCL) outlined in Federal Drinking Water standard. In the absence of an MCL the EPA Regional Screening Levels (RSL; TR=1E-06, HQ=1) for tap water will be used. In the absence of both, the method detection limit (MDL) will be used.

Storage pad rinsate samples will be analyzed for the target analyte list found in Table 1; results will be compared against the CPS also identified in Table 1. If the CPS is met, no further action will be performed. If the CPS is not met, further discussion with the agency will occur.

4.2 Equipment Decontamination

Dedicated sample collection jars will be used for each sample location. Prior to use for sample compositing the container-for-compositing will be decontaminated by using a potable water/biodegradable-alconox solution wash, followed by a potable water rinse (i.e., bucket wash/rinse).

Upon completion of sample collection, drains will be unplugged and rinsate water will flow into a common sump. Water may be disposed of on site via the process sewer or containerize for offsite disposal following laboratory analysis.

5.0 Quality Assurance/Quality Control (QA/QC) Samples

As part of the storage pad rinsate sampling event, the field team expects to collect 3 rinsate samples from the locations identified in Figures 3.

In addition to the above field rinsate samples, the following quality assurance/quality controls samples will be collected for each sampling event:

- Field duplicate samples and project-specific matrix spike/matrix spike duplicate (MS/MSD) samples will be collected; since fewer than 20 field samples will be collected, only one set of duplicate and MS/MSD samples will be needed for this project.
- Equipment blanks will be collected at the rate of 1 per sampling day per sample matrix.
- Trip blank samples will be submitted with each cooler containing samples for volatile organic analysis.

6.0 Project-Specific Health and Safety

A project-specific health and safety plan (HASP) addendum will be created for this rinsate sampling field effort. The HASP addendum, along with the associated HASP, will include the following:

- Summary of activities and tasks to be performed
- Personal protective equipment (PPE) associated with each task
- Discussion of potential hazards including, but not limited to, chemical, biological, heat/cold stress.
- Identification and route to nearest hospital/emergency-medical service
- Pertinent contacts

It is anticipated that all sampling activities will be performed in Modified Level D PPE. Modified Level D PPE includes the following:

- Polycoated Tyvek® suit
- Rubber, safety-toed boots or leather safety-toed boots (as determined by the Site Safety Officer)
- Hardhat
- Nitrile gloves (may be worn with leather outer gloves)
- Latex inner gloves
- Leather or work appropriate gloves used for all other general tasks
- Hearing protection as required
- Safety glasses with side shields

Additional safety related information is as follows:

- The HASP document, HASP addendum, and this Soil Sampling Work Plan will be available for field team to review prior to initiation of field activities.
- A review of the HASP will be performed with the field team prior to initiation of fieldwork.
- A short health and safety toolbox meeting will be performed with the field team each day.

7.0 Project-Specific Waste Management

Wastes associated with this rinsate sampling project will be handled as follows:

- The alconox/potable-water decontamination wash-solution will be assessed and disposed of properly by the facility.
- Used PPE and used sample collection jars will be contained in plastic yard-waste bags and disposed of as industrial waste by the site.
- Upon completion of rinsate sample collection, drains will be unplugged and rinsate water will flow into a common sump. Once the laboratory analytical results of the rinsate water has been obtained the rinsate water in the common sump will be assessed and property disposed of by the facility.

8.0 Schedule

The rinsate sampling fieldwork is expected to take approximately 1 day to complete. Laboratory analysis will require four weeks to complete after the last sample set has been received by the laboratory. The analytical results obtained will be compared against the CPS. If the CPS is met, no further action will be performed for the soils. If the CPS is not met, further discussion with the agency will occur. The analytical results obtained will be included in the waste storage pad closure document.

Tables

Table 1
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Volatiles|SW-846 8260B		
Acetone	67-64-1	14000.00
Acrylonitrile	107-13-1	0.052
Benzene	71-43-2	5
Bromoform	75-25-2	80
Bromomethane	74-83-9	7.5
Butanone, 2-	78-93-3	5600
Carbon Disulfide	75-15-0	810
Carbon Tetrachloride	56-23-5	5
Chlorobenzene	108-90-7	100
Chloroethane	75-00-3	21000
Chloroform	67-66-3	80
Chloromethane	74-87-3	190
Cyclohexanone	108-94-1	1400
Dibromo-3-chloropropane, 1,2-	96-12-8	0.2
Dibromoethane, 1,2-	106-93-4	0.05
Dibromomethane	74-95-3	8.3
Dichlorodifluoromethane	75-71-8	200
Dichloroethane, 1,1-	75-34-3	2.8
Dichloroethane, 1,2-	107-06-2	5
Dichloroethene, 1,1-	75-35-4	7
Dichloroethene, trans-1,2-	156-60-5	100
Dichloropropane, 1,2-	78-87-5	5
Dichloropropene, cis-1,3-	10061-01-5	MDL
Dichloropropene, trans-1,3-	10061-02-6	MDL
Dioxane, 1,4-	123-91-1	0.46
Ethyl Acetate	141-78-6	140
Ethyl Ether	60-29-7	3900
Ethyl Methacrylate	97-63-2	630
Ethylbenzene	100-41-4	700
Freon 113	76-13-1	10000
Methacrylonitrile	126-98-7	1.9
Methyl Iodide	74-88-4	MDL
Methyl Methacrylate	80-62-6	1400
Methyl-2-pentanone, 4-	108-10-1	6300
Methylene Chloride	75-09-2	5
Pentachloroethane	76-01-7	0.65
Tetrachloroethane, 1,1,1,2-	630-20-6	0.57
Tetrachloroethane, 1,1,1,2-	79-34-5	0.076
Tetrachloroethene	127-18-4	5
Toluene	108-88-3	1000
Trichloroethane, 1,1,1-	71-55-6	200

Table 1
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Trichloroethane, 1,1,2-	79-00-5	5
Trichloroethene	79-01-6	5
Trichlorofluoromethane	75-69-4	5200
Vinyl Chloride	75-01-4	2
Xylene (Total)	1330-20-7	10000
Semi-Volatiles SW-846 B 8270C		
Acetophenone	98-86-2	1,900.00
Acetylaminofluorene, 2-	53-96-3	0.016
Aniline	62-53-3	13
Anthracene	120-12-7	1800
Benzo(a)anthracene	56-55-3	0.03
Benzo(a)pyrene	50-32-8	0.2
bis(2-Chloroethoxy)methane	111-91-1	59
bis(2-Chloroethyl)ether	111-44-4	0.014
bis(2-Chloroisopropyl)ether	39638-32-9	MDL
bis(2-Ethylhexyl)phthalate	117-81-7	6
Bromophenyl-phenylether, 4-	101-55-3	MDL
Butylbenzylphthalate	85-68-7	16
Chloro-3-methylphenol, 4-	59-50-7	1400
Chloroaniline, 4-	106-47-8	0.37
Chloronaphthalene, 2-	91-58-7	750
Chlorophenol, 2-	95-57-8	91
Chrysene	218-01-9	25
Dibenz(a,h)anthracene	53-70-3	0.025
Dichlorobenzene, 1,2-	95-50-1	600
Dichlorobenzene, 1,3-	541-73-1	MDL
Dichlorobenzene, 1,4-	106-46-7	75
Dichlorophenol, 2,4-	120-83-2	46
Dichlorophenol, 2,6-	87-65-0	MDL
Diethylphthalate	84-66-2	15000
Dimethylphenol, 2,4-	105-67-9	360
Dimethylphthalate	131-11-3	MDL
Di-n-butylphthalate	84-74-2	900
Dinitrophenol, 2,4-	51-28-5	39
Dinitrotoluene, 2,4-	121-14-2	0.24
Dinitrotoluene, 2,6	606-20-2	0.049
Di-n-octylphthalate	117-84-0	200
Fluoranthene	206-44-0	800
Hexachlorobenzene	118-74-1	1
Hexachlorobutadiene	87-68-3	0.14
Hexachlorocyclopentadiene	77-47-4	50
Hexachloroethane	67-72-1	0.33

Table 1
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Hexachloropropene	1888-71-7	MDL
Indeno(1,2,3-cd)pyrene	193-39-5	0.25
Isosafrole	120-58-1	MDL
Methapyrilene	91-80-5	MDL
Methylcholanthrene, 3-	56-49-5	0.0011
Methylenebis(2-chloroanil, 4,4'-	101-14-4	0.16
Methylphenol, 2-	95-48-7	930
Methylphenol, 4-	106-44-5	1900
Naphthalene	91-20-3	0.17
Nitroaniline, 4-	100-01-6	3.8
Nitrobenzene	98-95-3	0.14
Nitro-o-toluidine, 5-	99-55-8	8.2
Nitrophenol, 4-	100-02-7	MDL
N-Nitrosodiethylamine	55-18-5	0.00017
N-Nitrosodi-n-butylamine	924-16-3	0.0027
N-Nitroso-di-n-propylamine	621-64-7	0.011
N-Nitrosopiperidine	100-75-4	0.0082
N-Nitrosopyrrolidine	930-55-2	0.037
Pentachlorobenzene	608-93-5	3.2
Pentachloronitrobenzene	82-68-8	0.12
Pentachlorophenol	87-86-5	1
Phenacetin	62-44-2	34
Phenanthrene	85-01-8	MDL
Phenol	108-95-2	5800
Pronamide	23950-58-5	1200
Pyrene	129-00-0	120
Pyridine	110-86-1	20
Safrole	94-59-7	0.096
Tetrachlorobenzene, 1,2,4,5-	95-94-3	1.7
Trichlorobenzene, 1,2,4-	120-82-1	70
Trichlorophenol, 2,4,5-	95-95-4	1200
Trichlorophenol, 2,4,6-	88-06-2	4.1
Miscellaneous|SW-846 8015B		
n-Butyl Alcohol	71-36-3	2,000.00
Isobutanol	78-83-1	5900
Methanol	67-56-1	20000
Carbamates|SW-846 8318		
Carbaryl	63-25-2	1,800.00
Carbofuran	1563-66-2	40.00
Methiocarb	2032-65-7	MDL
Methomyl	16752-77-5	500
Oxamyl	23135-22-0	200

Table 1
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Herbicides|SW-846 8151A		
2,4-D	94-75-7	70
2,4,5-TP	93-72-1	50
Pesticides/PCBs|SW-846 8081A		
Alpha BHC	319-84-6	0.0072
Alpha Chlordane	5103-71-9	MDL
Beta BHC	319-85-7	0.025
Chlordane	57-74-9	MDL
Delta BHC	319-86-8	MDL
Endosulfan I	959-98-8	MDL
Endosulfan II	33213-65-9	MDL
Endosulfan Sulfate	1031-07-8	110
Endrin	72-20-8	2
Gamma BHC - Lindane	58-89-9	0.2
Gamma Chlordane	5103-74-2	MDL
Heptachlor	76-44-8	0.4
Heptachlor	76-44-8	0.4
Heptachlor Epoxide	1024-57-3	0.2
Heptachlor Epoxide	1024-57-3	0.2
Methoxychlor	72-43-5	40
Methoxychlor	72-43-5	40
o,p-DDD	53-19-0	MDL
o,p-DDE	3424-82-6	MDL
o,p-DDT	789-02-6	MDL
p,p-DDD	72-54-8	0.032
p,p-DDE	72-55-9	0.046
p,p-DDT	50-29-3	0.23
Toxaphene	8001-35-2	3
Metals | SW-846 6010B		
Arsenic	7440-38-2	10
Barium	7440-39-3	2,000.00
Cadmium	7440-43-9	5
Calcium	7440-70-2	MDL
Chromium	7440-47-3	100
Lead	7439-92-1	15
Nickel	7440-02-0	390
Selenium	7782-49-2	50
Silver	7440-22-4	94
Metals|SW-846 7470A		
Mercury	7439-97-6	2

Table 1
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Rinsate (ug/L)[2]
Wet Chemistry|SW-846 9012A		
Amenable Cyanide	n.a.	MDL
Total Cyanide	57-12-5	200
Wet Chemistry|SM 2540 G-1997/2011		
Moisture	n.a.	MDL

1 - CPS = In absense of an MCL, the EPA Regional Screening Level (TR=1E-06, HQ=1) for tap water. In absense of both, the method detection limit will be used.

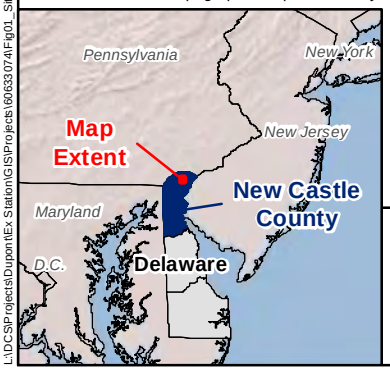
Table 2
Rinsate Sample Identification and Locations: Waste Storage Pads
DuPont Experimental Station
Wilmington, Delaware

Location ID	Waste Storage Pad Field Sample ID	Waste Storage Pad Location Details	Sample Representation	General List of Parameters (see Table 2 for detailed constituent list)
Pad A	PAD-A-R-COMP	Pad A - composite sample from above each floor drain	Pad A rinsate	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad B	PAD-B-R-GRAB	Pad B - Grab sample above the floor drain	Pad B rinsate	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad C	PAD-C-R-GRAB	Pad C - Grab sample collected adjacent to dammed sump	Pad C rinsate	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides

COMP = Composite Sample
VOA = Volatile Organic Analysis
SVOA = Semi-Volatile Organic Analysis
Pest. = Pesticides
Herb. = Herbicides

Figures

Source: DRG 1:24K Topographic maps created by USGS.



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4051 Ogletown Road
Newark, DE 19713

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0 1,000 2,000
Feet
1 inch = 2,000 feet

MAP FORMATTED FOR "A" (8.5" X 11") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

SITE LOCATION MAP

INCINERATOR CLOSURE PROJECT
DUPONT EXPERIMENTAL STATION
WILMINGTON, DE

TASK NUMBER:	PROJECT NUMBER:
PHS202	60633074
DESIGNED BY:	DATE:
M.LAYTON	9/2/2020
DRAWN BY:	FIGURE NUMBER:
M.LAYTON	1
DATA QUALITY CHECK BY:	
P.CHEN	

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LEGEND

PROPERTY BOUNDARY

GENERAL LOCATION OF PAD

Notes:
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

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0 175 350

Feet

1 inch = 175 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

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4051 Ogletown Road
Newark, DE 19713

GENERAL LOCATION OF STORAGE PADS

INCINERATOR CLOSURE PROJECT
DUPONT EXPERIMENTAL STATION
WILMINGTON, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P.CHEN	DATE: 9/2/2020
DRAWN BY: M.LAYTON	FIGURE NUMBER: 2
DATA QUALITY CHECK BY: P.CHEN	

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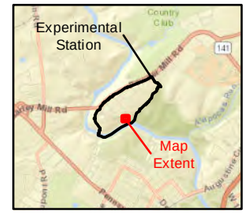
LEGEND

- PROPOSED RINSATE SAMPLE LOCATION
- WASTE STORAGE PAD (OUTLINE APPROXIMATE)

Notes:

^ = Due to lack of access, a soil sample to base of sump will not be collected.

Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017



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Feet
1 inch = 25 feet

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PADS A, B, AND C PROPOSED RINSATE SAMPLE LOCATIONS FOR PAD CLOSURE

INCINERATOR CLOSURE PROJECT
DUPONT EXPERIMENTAL STATION
WILMINGTON, DE

TASK NUMBER: PHS202	PROJECT NUMBER: 60633074
DESIGNED BY: P.CHEN	DATE: 9/2/2020
DRAWN BY: M.LAYTON	FIGURE NUMBER: 3
DATA QUALITY CHECK BY: P.CHEN	

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Appendix D

Rinsate Laboratory Analytical Results

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-13613-1
Client Project/Site: Experimental Station - Waste Pad Closure 2020
Revision: 1

For:
DuPont Specialty Products USA LLC
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom

Authorized for release by:
12/11/2020 11:52:56 AM

Dorothy Coplan, Project Manager
(717)556-4611
Dorothy.Coplan@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Dorothy Coplan
Project Manager
12/11/2020 11:52:56 AM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-13613-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-13613-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 11/4/2020. The report (revision 1) is being revised due to: Remove non-amenable cyanide and move PCB aroclor data to seperate report per client request.

Receipt
The samples were received on 9/10/2020 5:18 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 12.7º C, 13.3º C and 13.6º C.

Receipt Exceptions

Metals batch QC bottle received for Pad B.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA
Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid to pH <2 on analytical batch 410-46555 : PAD A (410-13613-1), PAD B (410-13613-2), PAD C (410-13613-3), FIELD DUPLICATE (410-13613-4), EQUIPMENT BLANK (410-13613-5) and Trip Blank (410-13613-6). The requested target analyte list includes Acrylonitrile.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-46555 recovered above the upper control limit for Tetrachloroethene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 410-43630: Aniline. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270D: The laboratory control sample and/or the laboratory control sample duplicate for preparation batch 410-43630 recovered outside control limits for the following analyte(s): Methapyrilene. Methapyrilene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 8270D: The continuing calibration verification (CCV) associated with batch 410-44507 recovered above the upper control limit for N-Nitrosodi-n-butylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 410-44329 recovered outside control limits for the following analytes: Methapyrilene. The stated control limits are advisory only until sufficient data points can be obtained to calculate statistical limits

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 531.1: The laboratory control sample (LCS) for preparation batch 410-44699 and analytical batch 410-46196 recovered outside control limits for the following analytes: Methomyl. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Job ID: 410-13613-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following sample was diluted due to the nature of the sample matrix: PAD C (410-13613-3). Elevated reporting limits (RLs) are provided.

Method 8081B: The method blank for preparation batch 410-43860 and analytical batch 410-44215 contained p,p'-DDT above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 8151A: The laboratory control sample (LCS) for preparation batch 410-43788 and analytical batch 410-43820 recovered below control limits for the following analytes: 2,4-D, 2,4,5-TP. The recoveries were within limits in the MS/MSD. The samples were not re-extracted due to hold being exceeded. There were no detections in the samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6020A: The laboratory control sample (LCS) for preparation batch 410-43355 and analytical batch 410-45736 recovered outside control limits for the following analytes: Calcium. These analytes were biased high in the LCS.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 9012A: The following samples were analyzed outside of analytical holding time due to laboratory error PAD A (410-13613-1), PAD B (410-13613-2), PAD B (410-13613-2[DU]), PAD B (410-13613-2[MS]), PAD C (410-13613-3), FIELD DUPLICATE (410-13613-4) and EQUIPMENT BLANK (410-13613-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-1
Project/Site: Experimental Station - Waste Pad Closure 2020

Client Sample ID: PAD A — Lab Sample ID: 410-13613-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.5	J	20	0.70	ug/L	1		8260C	Total/NA
Chloroform	19		1.0	0.20	ug/L	1		8260C	Total/NA
beta-BHC (1C)	0.0041	J p	0.020	0.0034	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane) (1C)	0.0027	J p	0.020	0.0020	ug/L	1		8081B	Total/NA
p,p'-DDT (1C)	0.0069	J p B	0.030	0.0052	ug/L	1		8081B	Total/NA
Barium	35		2.0	0.75	ug/L	1		6020A	Total/NA
Chromium	1.2	J	2.0	0.33	ug/L	1		6020A	Total/NA
Lead	0.97		0.50	0.071	ug/L	1		6020A	Total/NA
Calcium	34000		100	74	ug/L	1		6020A	Total/NA
Nickel	2.2		1.0	0.60	ug/L	1		6020A	Total/NA
Cyanide, Amenable	0.0066	J	0.010	0.0050	mg/L	1		9012A	Total/NA
Cyanide, Total	0.0066	J	0.010	0.0050	mg/L	1		9012A	Total/NA

Client Sample ID: PAD B — Lab Sample ID: 410-13613-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.7	J	20	0.70	ug/L	1		8260C	Total/NA
Chloroform	15		1.0	0.20	ug/L	1		8260C	Total/NA
Barium	48		2.0	0.75	ug/L	1		6020A	Total/NA
Chromium	1.0	J	2.0	0.33	ug/L	1		6020A	Total/NA
Lead	6.8		0.50	0.071	ug/L	1		6020A	Total/NA
Calcium	34000	*	100	74	ug/L	1		6020A	Total/NA
Nickel	5.7		1.0	0.60	ug/L	1		6020A	Total/NA
Cyanide, Amenable	0.0057	J	0.010	0.0050	mg/L	1		9012A	Total/NA
Cyanide, Total	0.0057	J	0.010	0.0050	mg/L	1		9012A	Total/NA

Client Sample ID: PAD C — Lab Sample ID: 410-13613-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.3	J	20	0.70	ug/L	1		8260C	Total/NA
Chloroform	25		1.0	0.20	ug/L	1		8260C	Total/NA
Bis(2-ethylhexyl) phthalate	7.5	J	11	5.1	ug/L	1		8270D	Total/NA
2,4-Dichlorophenol	1.4	J	2.0	0.51	ug/L	1		8270D	Total/NA
Naphthalene	0.25	J	0.51	0.10	ug/L	1		8270D	Total/NA
2,4,6-Trichlorophenol	7.1		2.0	0.51	ug/L	1		8270D	Total/NA
beta-BHC (2C)	0.058	J p B	0.10	0.017	ug/L	5		8081B	Total/NA
Endosulfan I (1C)	0.052	J p	0.10	0.022	ug/L	5		8081B	Total/NA
gamma-BHC (Lindane) (1C)	0.011	J p	0.10	0.010	ug/L	5		8081B	Total/NA
p,p'-DDT (2C)	0.17		0.15	0.026	ug/L	5		8081B	Total/NA
Barium	49		2.0	0.75	ug/L	1		6020A	Total/NA
Chromium	1.1	J	2.0	0.33	ug/L	1		6020A	Total/NA
Lead	0.77		0.50	0.071	ug/L	1		6020A	Total/NA
Calcium	35000		100	74	ug/L	1		6020A	Total/NA
Nickel	2.0		1.0	0.60	ug/L	1		6020A	Total/NA
Cyanide, Amenable	0.011		0.010	0.0050	mg/L	1		9012A	Total/NA
Cyanide, Total	0.011		0.010	0.0050	mg/L	1		9012A	Total/NA

Client Sample ID: FIELD DUPLICATE — Lab Sample ID: 410-13613-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.1	J	20	0.70	ug/L	1		8260C	Total/NA
Chloroform	15		1.0	0.20	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-1
Project/Site: Experimental Station - Waste Pad Closure 2020

Client Sample ID: FIELD DUPLICATE (Continued) — Lab Sample ID: 410-13613-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	52		2.0	0.75	ug/L	1		6020A	Total/NA
Chromium	3.8		2.0	0.33	ug/L	1		6020A	Total/NA
Lead	7.5		0.50	0.071	ug/L	1		6020A	Total/NA
Calcium	35000	*	100	74	ug/L	1		6020A	Total/NA
Nickel	5.5		1.0	0.60	ug/L	1		6020A	Total/NA
Cyanide, Amenable	0.0067	J	0.010	0.0050	mg/L	1		9012A	Total/NA
Cyanide, Total	0.0067	J	0.010	0.0050	mg/L	1		9012A	Total/NA

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 410-13613-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	160	*	100	74	ug/L	1		6020A	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-13613-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station - Waste Pad Closure 2020

Job ID: 410-13613-1

Client Sample ID: PAD A

Date Collected: 09/10/20 08:45
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.5**	**J**	20	0.70	ug/L			09/22/20 21:35	1
Acrylonitrile	ND		20	0.30	ug/L			09/22/20 21:35	1
Benzene	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Bromoform	ND		4.0	1.0	ug/L			09/22/20 21:35	1
Bromomethane	ND		1.0	0.30	ug/L			09/22/20 21:35	1
2-Butanone	ND		10	0.30	ug/L			09/22/20 21:35	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/22/20 21:35	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Chloroethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Chloroform	**19**		1.0	0.20	ug/L			09/22/20 21:35	1
Chloromethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 21:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/22/20 21:35	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Dibromomethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/20 21:35	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/22/20 21:35	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
1,4-Dioxane	ND		250	29	ug/L			09/22/20 21:35	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/22/20 21:35	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/20 21:35	1
Ethyl ether	ND		5.0	0.20	ug/L			09/22/20 21:35	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 21:35	1
Freon 113	ND		10	0.20	ug/L			09/22/20 21:35	1
Methacrylonitrile	ND		50	6.0	ug/L			09/22/20 21:35	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/22/20 21:35	1
Methyl iodide	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 21:35	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/22/20 21:35	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/22/20 21:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Toluene	ND		1.0	0.20	ug/L			09/22/20 21:35	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/22/20 21:35	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 21:35	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/22/20 21:35	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/22/20 21:35	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Trichloroethene	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/22/20 21:35	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/20 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/22/20 21:35*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/22/20 21:35*	*1*

Client Sample ID: PAD A

Date Collected: 09/10/20 08:45
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-1

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/22/20 21:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/22/20 21:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
2-Acetylaminofluorene	ND		21	10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Aniline	ND	*	10	3.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Anthracene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Bis(2-chloroethoxy)methane	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Bis(2-chloroethyl)ether	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Bis(2-ethylhexyl) phthalate	ND		11	5.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
4-Bromophenyl-phenylether	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Butylbenzylphthalate	ND		5.0	2.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
4-Chloroaniline	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/14/20 17:45	09/17/20 02:05	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/14/20 17:45	09/17/20 02:05	1
2-Chlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Chrysene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,4-Dichlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,6-Dichlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Diethyl phthalate	ND		5.0	2.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Dimethyl phthalate	ND		5.0	2.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Di-n-butyl phthalate	ND		5.0	2.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,4-Dinitrotoluene	ND		5.0	1.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,6-Dinitrotoluene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Di-n-octyl phthalate	ND		11	5.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Fluoranthene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Hexachlorobenzene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Hexachlorocyclopentadiene	ND		11	5.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Hexachloroethane	ND		5.0	1.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Hexachloropropene	ND		5.0	2.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Isosafrole	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Methapyrilene	ND	*	50	15	ug/L		09/14/20 17:45	09/17/20 02:05	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
2-Methylphenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
4-Methylphenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Naphthalene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
4-Nitroaniline	ND		3.0	0.91	ug/L		09/14/20 17:45	09/17/20 02:05	1

Client Sample ID: PAD A
Date Collected: 09/10/20 08:45
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
4-Nitrophenol	ND		30	10	ug/L		09/14/20 17:45	09/17/20 02:05	1
N-Nitrosodiethylamine	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/14/20 17:45	09/17/20 02:05	1
N-Nitrosodi-n-propylamine	ND		3.0	0.71	ug/L		09/14/20 17:45	09/17/20 02:05	1
N-Nitrosopiperidine	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
N-Nitrosopyrrolidine	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Pentachlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Pentachloronitrobenzene	ND		5.0	2.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Pentachlorophenol	ND		5.0	1.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Phenacetin	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Phenanthrene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Phenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
Pronamide	ND		5.0	1.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Pyrene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/17/20 02:05	1
Pyridine	ND		5.0	2.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
Safrole, Total	ND		5.0	2.0	ug/L		09/14/20 17:45	09/17/20 02:05	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	72	ug/L		09/14/20 17:45	09/17/20 02:05	1
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,4,6-Trichlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.50	ug/L		09/14/20 17:45	09/17/20 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*44 - 102*	*09/14/20 17:45*	*09/17/20 02:05*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 84*	*09/14/20 17:45*	*09/17/20 02:05*	*1*
Nitrobenzene-d5 (Surr)	*76*		*38 - 113*	*09/14/20 17:45*	*09/17/20 02:05*	*1*
Phenol-d5 (Surr)	*30*		*10 - 67*	*09/14/20 17:45*	*09/17/20 02:05*	*1*
p-Terphenyl-d14 (Surr)	*77*		*34 - 128*	*09/14/20 17:45*	*09/17/20 02:05*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*18 - 141*	*09/14/20 17:45*	*09/17/20 02:05*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/21/20 13:10	09/21/20 18:11	1
Isobutanol (1C)	ND		1000	150	ug/L		09/21/20 13:10	09/21/20 18:11	1
Methanol (2C)	ND		1000	220	ug/L		09/21/20 13:10	09/21/20 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*109*		*58 - 149*	*09/21/20 13:10*	*09/21/20 18:11*	*1*
Acetone (2C)	*101*		*58 - 149*	*09/21/20 13:10*	*09/21/20 18:11*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (2C)	ND		0.020	0.0030	ug/L		09/15/20 09:00	09/15/20 23:10	1
alpha-Chlordane (1C)	ND		0.020	0.0030	ug/L		09/15/20 09:00	09/15/20 23:10	1
beta-BHC (1C)	**0.0041**	**J p**	0.020	0.0034	ug/L		09/15/20 09:00	09/15/20 23:10	1
delta-BHC (1C)	ND		0.020	0.0034	ug/L		09/15/20 09:00	09/15/20 23:10	1
Endosulfan I (1C)	ND		0.020	0.0043	ug/L		09/15/20 09:00	09/15/20 23:10	1

Client Sample ID: PAD A
Date Collected: 09/10/20 08:45
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-1
Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II (1C)	ND		0.040	0.015	ug/L		09/15/20 09:00	09/15/20 23:10	1
Endosulfan sulfate (1C)	ND		0.030	0.0058	ug/L		09/15/20 09:00	09/15/20 23:10	1
Endrin (1C)	ND		0.030	0.0081	ug/L		09/15/20 09:00	09/15/20 23:10	1
gamma-BHC (Lindane) (1C)	**0.0027**	**J p**	0.020	0.0020	ug/L		09/15/20 09:00	09/15/20 23:10	1
gamma-Chlordane (1C)	ND		0.040	0.0070	ug/L		09/15/20 09:00	09/15/20 23:10	1
Heptachlor (2C)	ND		0.020	0.0020	ug/L		09/15/20 09:00	09/15/20 23:10	1
Heptachlor epoxide (1C)	ND		0.020	0.0023	ug/L		09/15/20 09:00	09/15/20 23:10	1
Methoxychlor (1C)	ND		0.11	0.030	ug/L		09/15/20 09:00	09/15/20 23:10	1
Toxaphene (1C)	ND		1.0	0.30	ug/L		09/15/20 09:00	09/15/20 23:10	1
p,p'-DDD (1C)	ND		0.030	0.0050	ug/L		09/15/20 09:00	09/15/20 23:10	1
p,p'-DDE (1C)	ND		0.030	0.0050	ug/L		09/15/20 09:00	09/15/20 23:10	1
p,p'-DDT (1C)	**0.0069**	**J p B**	0.030	0.0052	ug/L		09/15/20 09:00	09/15/20 23:10	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.16	ug/L		09/15/20 09:00	09/15/20 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*65*		*32 - 149*	*09/15/20 09:00*	*09/15/20 23:10*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*69*		*32 - 149*	*09/15/20 09:00*	*09/15/20 23:10*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*56*		*29 - 129*	*09/15/20 09:00*	*09/15/20 23:10*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*67*		*29 - 129*	*09/15/20 09:00*	*09/15/20 23:10*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND	*	0.048	0.0095	ug/L		09/15/20 00:30	09/17/20 19:09	1
2,4-D (1C)	ND	*	0.57	0.24	ug/L		09/15/20 00:30	09/17/20 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*106*		*34 - 142*	*09/15/20 00:30*	*09/17/20 19:09*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*53*	*p*	*34 - 142*	*09/15/20 00:30*	*09/17/20 19:09*	*1*

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 09:37	1
Carbofuran	ND		2.0	0.80	ug/L		09/16/20 21:42	09/22/20 09:37	1
Methiocarb	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 09:37	1
Methomyl	ND	*	2.0	1.0	ug/L		09/16/20 21:42	09/22/20 09:37	1
Oxamyl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*99*		*80 - 120*	*09/16/20 21:42*	*09/22/20 09:37*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/14/20 03:15	09/19/20 10:31	1
Barium	**35**		2.0	0.75	ug/L		09/14/20 03:15	09/19/20 10:31	1
Cadmium	ND		0.50	0.15	ug/L		09/14/20 03:15	09/19/20 10:31	1
Chromium	**1.2**	**J**	2.0	0.33	ug/L		09/14/20 03:15	09/19/20 10:31	1
Lead	**0.97**		0.50	0.071	ug/L		09/14/20 03:15	09/19/20 10:31	1
Selenium	ND		1.0	0.28	ug/L		09/14/20 03:15	09/19/20 10:31	1
Silver	ND		0.50	0.17	ug/L		09/14/20 03:15	09/19/20 10:31	1

Client Sample ID: PAD A
Lab Sample ID: 410-13613-1
Date Collected: 09/10/20 08:45
Matrix: Water
Date Received: 09/10/20 17:18

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	34000		100	74	ug/L		09/14/20 03:15	09/19/20 10:31	1
Nickel	2.2		1.0	0.60	ug/L		09/14/20 03:15	09/19/20 10:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/14/20 09:24	09/15/20 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0066	J	0.010	0.0050	mg/L			10/06/20 11:30	1
Cyanide, Total	0.0066	J	0.010	0.0050	mg/L		09/17/20 15:03	09/19/20 11:49	1

Client Sample ID: PAD B
Lab Sample ID: 410-13613-2
Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.7	J	20	0.70	ug/L			09/22/20 21:58	1
Acrylonitrile	ND		20	0.30	ug/L			09/22/20 21:58	1
Benzene	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Bromoform	ND		4.0	1.0	ug/L			09/22/20 21:58	1
Bromomethane	ND		1.0	0.30	ug/L			09/22/20 21:58	1
2-Butanone	ND		10	0.30	ug/L			09/22/20 21:58	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/22/20 21:58	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Chloroethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Chloroform	15		1.0	0.20	ug/L			09/22/20 21:58	1
Chloromethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 21:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/22/20 21:58	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Dibromomethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/20 21:58	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/22/20 21:58	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
1,4-Dioxane	ND		250	29	ug/L			09/22/20 21:58	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/22/20 21:58	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/20 21:58	1
Ethyl ether	ND		5.0	0.20	ug/L			09/22/20 21:58	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 21:58	1
Freon 113	ND		10	0.20	ug/L			09/22/20 21:58	1
Methacrylonitrile	ND		50	6.0	ug/L			09/22/20 21:58	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/22/20 21:58	1
Methyl iodide	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 21:58	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/22/20 21:58	1

Client Sample ID: PAD B
Date Collected: 09/10/20 08:15
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachloroethane	ND		5.0	0.20	ug/L			09/22/20 21:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Toluene	ND		1.0	0.20	ug/L			09/22/20 21:58	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/22/20 21:58	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 21:58	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/22/20 21:58	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/22/20 21:58	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Trichloroethene	ND	F1	1.0	0.20	ug/L			09/22/20 21:58	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/22/20 21:58	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/20 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/22/20 21:58*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/22/20 21:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/22/20 21:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/22/20 21:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
2-Acetylaminofluorene	ND		21	10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Aniline	ND	F1	10	3.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Anthracene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Bis(2-chloroethoxy)methane	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Bis(2-chloroethyl)ether	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Bis(2-ethylhexyl) phthalate	ND		11	5.1	ug/L		09/16/20 09:30	09/17/20 13:40	1
4-Bromophenyl-phenylether	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Butylbenzylphthalate	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
4-Chloroaniline	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/16/20 09:30	09/17/20 13:40	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/16/20 09:30	09/17/20 13:40	1
2-Chlorophenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Chrysene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
1,2-Dichlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
1,3-Dichlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
1,4-Dichlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
2,4-Dichlorophenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
2,6-Dichlorophenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Diethyl phthalate	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Dimethyl phthalate	ND	F1	5.1	2.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Di-n-butyl phthalate	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/16/20 09:30	09/17/20 13:40	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station - Waste Pad Closure 2020

Job ID: 410-13613-1

Client Sample ID: PAD B
Date Collected: 09/10/20 08:15
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.1	1.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
2,6-Dinitrotoluene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Di-n-octyl phthalate	ND		11	5.1	ug/L		09/16/20 09:30	09/17/20 13:40	1
Fluoranthene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Hexachlorobenzene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Hexachlorobutadiene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Hexachlorocyclopentadiene	ND		11	5.1	ug/L		09/16/20 09:30	09/17/20 13:40	1
Hexachloroethane	ND		5.1	1.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Hexachloropropene	ND	*1	5.1	2.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Isosafrole	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Methapyrilene	ND	*	51	15	ug/L		09/16/20 09:30	09/17/20 13:40	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
2-Methylphenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
4-Methylphenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Naphthalene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
4-Nitroaniline	ND	F1	3.0	0.91	ug/L		09/16/20 09:30	09/17/20 13:40	1
Nitrobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
4-Nitrophenol	ND		30	10	ug/L		09/16/20 09:30	09/17/20 13:40	1
N-Nitrosodiethylamine	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/16/20 09:30	09/17/20 13:40	1
N-Nitrosodi-n-propylamine	ND		3.0	0.71	ug/L		09/16/20 09:30	09/17/20 13:40	1
N-Nitrosopiperidine	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
N-Nitrosopyrrolidine	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Pentachlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Pentachloronitrobenzene	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Pentachlorophenol	ND		5.1	1.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Phenacetin	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Phenanthrene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Phenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
Pronamide	ND		5.1	1.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Pyrene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 13:40	1
Pyridine	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
Safrole, Total	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 13:40	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	72	ug/L		09/16/20 09:30	09/17/20 13:40	1
1,2,4-Trichlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
2,4,5-Trichlorophenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
2,4,6-Trichlorophenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 102*	*09/16/20 09:30*	*09/17/20 13:40*	*1*
2-Fluorophenol (Surr)	*51*		*10 - 84*	*09/16/20 09:30*	*09/17/20 13:40*	*1*
Nitrobenzene-d5 (Surr)	*70*		*38 - 113*	*09/16/20 09:30*	*09/17/20 13:40*	*1*
Phenol-d5 (Surr)	*36*		*10 - 67*	*09/16/20 09:30*	*09/17/20 13:40*	*1*
p-Terphenyl-d14 (Surr)	*86*		*34 - 128*	*09/16/20 09:30*	*09/17/20 13:40*	*1*
2,4,6-Tribromophenol (Surr)	*91*		*18 - 141*	*09/16/20 09:30*	*09/17/20 13:40*	*1*

Client Sample ID: PAD B
Date Collected: 09/10/20 08:15
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-2
Matrix: Water

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/21/20 13:10	09/21/20 18:27	1
Isobutanol (1C)	ND		1000	150	ug/L		09/21/20 13:10	09/21/20 18:27	1
Methanol (2C)	ND		1000	220	ug/L		09/21/20 13:10	09/21/20 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*107*		*58 - 149*	*09/21/20 13:10*	*09/21/20 18:27*	*1*
Acetone (2C)	*99*		*58 - 149*	*09/21/20 13:10*	*09/21/20 18:27*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.020	0.0031	ug/L		09/15/20 09:00	09/15/20 23:22	1
alpha-Chlordane (1C)	ND		0.020	0.0031	ug/L		09/15/20 09:00	09/15/20 23:22	1
beta-BHC (1C)	ND		0.020	0.0035	ug/L		09/15/20 09:00	09/15/20 23:22	1
delta-BHC (1C)	ND		0.020	0.0035	ug/L		09/15/20 09:00	09/15/20 23:22	1
Endosulfan I (1C)	ND		0.020	0.0044	ug/L		09/15/20 09:00	09/15/20 23:22	1
Endosulfan II (1C)	ND		0.041	0.015	ug/L		09/15/20 09:00	09/15/20 23:22	1
Endosulfan sulfate (1C)	ND		0.031	0.0059	ug/L		09/15/20 09:00	09/15/20 23:22	1
Endrin (1C)	ND		0.031	0.0083	ug/L		09/15/20 09:00	09/15/20 23:22	1
gamma-BHC (Lindane) (1C)	ND		0.020	0.0020	ug/L		09/15/20 09:00	09/15/20 23:22	1
gamma-Chlordane (1C)	ND	F1	0.041	0.0072	ug/L		09/15/20 09:00	09/15/20 23:22	1
Heptachlor (1C)	ND		0.020	0.0020	ug/L		09/15/20 09:00	09/15/20 23:22	1
Heptachlor epoxide (1C)	ND		0.020	0.0024	ug/L		09/15/20 09:00	09/15/20 23:22	1
Methoxychlor (1C)	ND		0.11	0.031	ug/L		09/15/20 09:00	09/15/20 23:22	1
Toxaphene (1C)	ND		1.0	0.31	ug/L		09/15/20 09:00	09/15/20 23:22	1
p,p'-DDD (1C)	ND		0.031	0.0051	ug/L		09/15/20 09:00	09/15/20 23:22	1
p,p'-DDE (1C)	ND		0.031	0.0051	ug/L		09/15/20 09:00	09/15/20 23:22	1
p,p'-DDT (1C)	ND		0.031	0.0053	ug/L		09/15/20 09:00	09/15/20 23:22	1
Chlordane (n.o.s.) (1C)	ND		0.51	0.16	ug/L		09/15/20 09:00	09/15/20 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*51*		*32 - 149*	*09/15/20 09:00*	*09/15/20 23:22*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*57*		*32 - 149*	*09/15/20 09:00*	*09/15/20 23:22*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*48*		*29 - 129*	*09/15/20 09:00*	*09/15/20 23:22*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*56*		*29 - 129*	*09/15/20 09:00*	*09/15/20 23:22*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND	F1 *	0.049	0.0098	ug/L		09/15/20 00:30	09/17/20 19:43	1
2,4-D (1C)	ND	*	0.59	0.25	ug/L		09/15/20 00:30	09/17/20 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*63*		*34 - 142*	*09/15/20 00:30*	*09/17/20 19:43*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*62*		*34 - 142*	*09/15/20 00:30*	*09/17/20 19:43*	*1*

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 10:27	1
Carbofuran	ND		2.0	0.80	ug/L		09/16/20 21:42	09/22/20 10:27	1
Methiocarb	ND	*	2.0	1.0	ug/L		09/16/20 21:42	09/17/20 12:39	1

Client Sample ID: PAD B

Date Collected: 09/10/20 08:15
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-2
Matrix: Water

Method: 531.1 - Carbamate Pesticides (HPLC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methomyl	ND	*	2.0	1.0	ug/L		09/16/20 21:42	09/22/20 10:27	1
Oxamyl	ND	F1	2.0	1.0	ug/L		09/16/20 21:42	09/22/20 10:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*96*		*80 - 120*	*09/16/20 21:42*	*09/17/20 12:39*	*1*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*98*		*80 - 120*	*09/16/20 21:42*	*09/22/20 10:27*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/14/20 03:18	09/19/20 17:24	1
Barium	**48**		2.0	0.75	ug/L		09/14/20 03:18	09/19/20 17:24	1
Cadmium	ND		0.50	0.15	ug/L		09/14/20 03:18	09/19/20 17:24	1
Chromium	**1.0**	**J**	2.0	0.33	ug/L		09/14/20 03:18	09/19/20 17:24	1
Lead	**6.8**		0.50	0.071	ug/L		09/14/20 03:18	09/19/20 17:24	1
Selenium	ND		1.0	0.28	ug/L		09/14/20 03:18	09/19/20 17:24	1
Silver	ND		0.50	0.17	ug/L		09/14/20 03:18	09/19/20 17:24	1
Calcium	**34000**	*	100	74	ug/L		09/14/20 03:18	09/19/20 17:24	1
Nickel	**5.7**		1.0	0.60	ug/L		09/25/20 05:09	09/28/20 13:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/14/20 09:31	09/15/20 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	**0.0057**	**J**	0.010	0.0050	mg/L			10/06/20 11:30	1
Cyanide, Total	**0.0057**	**J**	0.010	0.0050	mg/L		09/17/20 15:03	09/19/20 11:47	1

Client Sample ID: PAD C

Date Collected: 09/10/20 09:30
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**7.3**	**J**	20	0.70	ug/L			09/22/20 23:51	1
Acrylonitrile	ND		20	0.30	ug/L			09/22/20 23:51	1
Benzene	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Bromoform	ND		4.0	1.0	ug/L			09/22/20 23:51	1
Bromomethane	ND		1.0	0.30	ug/L			09/22/20 23:51	1
2-Butanone	ND		10	0.30	ug/L			09/22/20 23:51	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/22/20 23:51	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Chloroethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Chloroform	**25**		1.0	0.20	ug/L			09/22/20 23:51	1
Chloromethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 23:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/22/20 23:51	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1

Client Sample ID: PAD C
Lab Sample ID: 410-13613-3
Date Collected: 09/10/20 09:30
Matrix: Water
Date Received: 09/10/20 17:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/20 23:51	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/22/20 23:51	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
1,4-Dioxane	ND		250	29	ug/L			09/22/20 23:51	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/22/20 23:51	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/20 23:51	1
Ethyl ether	ND		5.0	0.20	ug/L			09/22/20 23:51	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 23:51	1
Freon 113	ND		10	0.20	ug/L			09/22/20 23:51	1
Methacrylonitrile	ND		50	6.0	ug/L			09/22/20 23:51	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/22/20 23:51	1
Methyl iodide	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 23:51	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/22/20 23:51	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/22/20 23:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Toluene	ND		1.0	0.20	ug/L			09/22/20 23:51	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/22/20 23:51	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 23:51	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/22/20 23:51	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/22/20 23:51	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Trichloroethene	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/22/20 23:51	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/20 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/22/20 23:51*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/22/20 23:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/22/20 23:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/22/20 23:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
2-Acetylaminofluorene	ND		21	10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Aniline	ND		10	3.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Anthracene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Bis(2-chloroethoxy)methane	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Bis(2-chloroethyl)ether	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Bis(2-ethylhexyl) phthalate	**7.5**	**J**	11	5.1	ug/L		09/16/20 09:30	09/17/20 15:07	1
4-Bromophenyl-phenylether	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1

Client Sample ID: PAD C
Date Collected: 09/10/20 09:30
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butylbenzylphthalate	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
4-Chloroaniline	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/16/20 09:30	09/17/20 15:07	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/16/20 09:30	09/17/20 15:07	1
2-Chlorophenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Chrysene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
1,2-Dichlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
1,3-Dichlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
1,4-Dichlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,4-Dichlorophenol	**1.4**	**J**	2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,6-Dichlorophenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Diethyl phthalate	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Dimethyl phthalate	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Di-n-butyl phthalate	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,4-Dinitrotoluene	ND		5.1	1.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,6-Dinitrotoluene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Di-n-octyl phthalate	ND		11	5.1	ug/L		09/16/20 09:30	09/17/20 15:07	1
Fluoranthene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Hexachlorobenzene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Hexachlorobutadiene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Hexachlorocyclopentadiene	ND		11	5.1	ug/L		09/16/20 09:30	09/17/20 15:07	1
Hexachloroethane	ND		5.1	1.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Hexachloropropene	ND	*1	5.1	2.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Isosafrole	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Methapyrilene	ND	*	51	15	ug/L		09/16/20 09:30	09/17/20 15:07	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
2-Methylphenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
4-Methylphenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Naphthalene	**0.25**	**J**	0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
4-Nitroaniline	ND		3.0	0.91	ug/L		09/16/20 09:30	09/17/20 15:07	1
Nitrobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
4-Nitrophenol	ND		30	10	ug/L		09/16/20 09:30	09/17/20 15:07	1
N-Nitrosodiethylamine	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/16/20 09:30	09/17/20 15:07	1
N-Nitrosodi-n-propylamine	ND		3.0	0.71	ug/L		09/16/20 09:30	09/17/20 15:07	1
N-Nitrosopiperidine	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
N-Nitrosopyrrolidine	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Pentachlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Pentachloronitrobenzene	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Pentachlorophenol	ND		5.1	1.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Phenacetin	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Phenanthrene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Phenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
Pronamide	ND		5.1	1.0	ug/L		09/16/20 09:30	09/17/20 15:07	1

Client Sample ID: PAD C
Date Collected: 09/10/20 09:30
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.51	0.10	ug/L		09/16/20 09:30	09/17/20 15:07	1
Pyridine	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
Safrole, Total	ND		5.1	2.0	ug/L		09/16/20 09:30	09/17/20 15:07	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	72	ug/L		09/16/20 09:30	09/17/20 15:07	1
1,2,4-Trichlorobenzene	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,4,5-Trichlorophenol	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,4,6-Trichlorophenol	**7.1**		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.51	ug/L		09/16/20 09:30	09/17/20 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*44 - 102*	*09/16/20 09:30*	*09/17/20 15:07*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 84*	*09/16/20 09:30*	*09/17/20 15:07*	*1*
Nitrobenzene-d5 (Surr)	*77*		*38 - 113*	*09/16/20 09:30*	*09/17/20 15:07*	*1*
Phenol-d5 (Surr)	*33*		*10 - 67*	*09/16/20 09:30*	*09/17/20 15:07*	*1*
p-Terphenyl-d14 (Surr)	*86*		*34 - 128*	*09/16/20 09:30*	*09/17/20 15:07*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*18 - 141*	*09/16/20 09:30*	*09/17/20 15:07*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/21/20 13:10	09/21/20 19:17	1
Isobutanol (1C)	ND		1000	150	ug/L		09/21/20 13:10	09/21/20 19:17	1
Methanol (2C)	ND		1000	220	ug/L		09/21/20 13:10	09/21/20 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*111*		*58 - 149*	*09/21/20 13:10*	*09/21/20 19:17*	*1*
Acetone (2C)	*103*		*58 - 149*	*09/21/20 13:10*	*09/21/20 19:17*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.10	0.015	ug/L		09/15/20 09:00	09/15/20 23:59	5
alpha-Chlordane (1C)	ND		0.10	0.015	ug/L		09/15/20 09:00	09/15/20 23:59	5
beta-BHC (2C)	**0.058**	**J p B**	0.10	0.017	ug/L		09/15/20 09:00	09/15/20 23:59	5
delta-BHC (1C)	ND		0.10	0.017	ug/L		09/15/20 09:00	09/15/20 23:59	5
Endosulfan I (1C)	**0.052**	**J p**	0.10	0.022	ug/L		09/15/20 09:00	09/15/20 23:59	5
Endosulfan II (1C)	ND		0.20	0.076	ug/L		09/15/20 09:00	09/15/20 23:59	5
Endosulfan sulfate (2C)	ND		0.15	0.029	ug/L		09/15/20 09:00	09/15/20 23:59	5
Endrin (1C)	ND		0.15	0.041	ug/L		09/15/20 09:00	09/15/20 23:59	5
gamma-BHC (Lindane) (1C)	**0.011**	**J p**	0.10	0.010	ug/L		09/15/20 09:00	09/15/20 23:59	5
gamma-Chlordane (1C)	ND		0.20	0.036	ug/L		09/15/20 09:00	09/15/20 23:59	5
Heptachlor (1C)	ND		0.10	0.010	ug/L		09/15/20 09:00	09/15/20 23:59	5
Heptachlor epoxide (1C)	ND		0.10	0.012	ug/L		09/15/20 09:00	09/15/20 23:59	5
Methoxychlor (1C)	ND		0.56	0.15	ug/L		09/15/20 09:00	09/15/20 23:59	5
Toxaphene (1C)	ND		5.1	1.5	ug/L		09/15/20 09:00	09/15/20 23:59	5
p,p'-DDD (2C)	ND		0.15	0.025	ug/L		09/15/20 09:00	09/15/20 23:59	5
p,p'-DDE (1C)	ND		0.15	0.025	ug/L		09/15/20 09:00	09/15/20 23:59	5
p,p'-DDT (2C)	**0.17**		0.15	0.026	ug/L		09/15/20 09:00	09/15/20 23:59	5
Chlordane (n.o.s.) (1C)	ND		2.5	0.81	ug/L		09/15/20 09:00	09/15/20 23:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*61*		*32 - 149*	*09/15/20 09:00*	*09/15/20 23:59*	*5*

Client Sample ID: PAD C
Date Collected: 09/10/20 09:30
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-3
Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (2C)	*65*		*32 - 149*	*09/15/20 09:00*	*09/15/20 23:59*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*60*		*29 - 129*	*09/15/20 09:00*	*09/15/20 23:59*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*68*		*29 - 129*	*09/15/20 09:00*	*09/15/20 23:59*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	0.048	0.0097	ug/L		09/15/20 00:30	09/17/20 21:23	1
2,4-D (1C)	ND	*	0.58	0.24	ug/L		09/15/20 00:30	09/17/20 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*51*		*34 - 142*	*09/15/20 00:30*	*09/17/20 21:23*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*56*		*34 - 142*	*09/15/20 00:30*	*09/17/20 21:23*	*1*

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 11:17	1
Carbofuran	ND		2.0	0.80	ug/L		09/16/20 21:42	09/22/20 11:17	1
Methiocarb	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 11:17	1
Methomyl	ND	*	2.0	1.0	ug/L		09/16/20 21:42	09/22/20 11:17	1
Oxamyl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*103*		*80 - 120*	*09/16/20 21:42*	*09/22/20 11:17*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/14/20 03:15	09/19/20 10:33	1
Barium	**49**		2.0	0.75	ug/L		09/14/20 03:15	09/19/20 10:33	1
Cadmium	ND		0.50	0.15	ug/L		09/14/20 03:15	09/19/20 10:33	1
Chromium	**1.1**	**J**	2.0	0.33	ug/L		09/14/20 03:15	09/19/20 10:33	1
Lead	**0.77**		0.50	0.071	ug/L		09/14/20 03:15	09/19/20 10:33	1
Selenium	ND		1.0	0.28	ug/L		09/14/20 03:15	09/19/20 10:33	1
Silver	ND		0.50	0.17	ug/L		09/14/20 03:15	09/19/20 10:33	1
Calcium	**35000**		100	74	ug/L		09/14/20 03:15	09/19/20 10:33	1
Nickel	**2.0**		1.0	0.60	ug/L		09/14/20 03:15	09/19/20 10:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/14/20 09:24	09/15/20 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	**0.011**		0.010	0.0050	mg/L			10/06/20 11:30	1
Cyanide, Total	**0.011**		0.010	0.0050	mg/L		09/17/20 15:03	09/19/20 11:43	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station - Waste Pad Closure 2020

Job ID: 410-13613-1

Client Sample ID: FIELD DUPLICATE

Date Collected: 09/10/20 08:15
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.1**	**J**	20	0.70	ug/L			09/23/20 00:13	1
Acrylonitrile	ND		20	0.30	ug/L			09/23/20 00:13	1
Benzene	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Bromoform	ND		4.0	1.0	ug/L			09/23/20 00:13	1
Bromomethane	ND		1.0	0.30	ug/L			09/23/20 00:13	1
2-Butanone	ND		10	0.30	ug/L			09/23/20 00:13	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/23/20 00:13	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Chloroethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Chloroform	**15**		1.0	0.20	ug/L			09/23/20 00:13	1
Chloromethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/23/20 00:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/23/20 00:13	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Dibromomethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/23/20 00:13	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/23/20 00:13	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
1,4-Dioxane	ND		250	29	ug/L			09/23/20 00:13	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/23/20 00:13	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/23/20 00:13	1
Ethyl ether	ND		5.0	0.20	ug/L			09/23/20 00:13	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/23/20 00:13	1
Freon 113	ND		10	0.20	ug/L			09/23/20 00:13	1
Methacrylonitrile	ND		50	6.0	ug/L			09/23/20 00:13	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/23/20 00:13	1
Methyl iodide	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/23/20 00:13	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/23/20 00:13	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/23/20 00:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Toluene	ND		1.0	0.20	ug/L			09/23/20 00:13	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/23/20 00:13	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/23/20 00:13	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/23/20 00:13	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/23/20 00:13	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Trichloroethene	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/23/20 00:13	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/23/20 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/23/20 00:13*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/23/20 00:13*	*1*

Client Sample ID: FIELD DUPLICATE
Lab Sample ID: 410-13613-4
Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/23/20 00:13*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/23/20 00:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
2-Acetylaminofluorene	ND		21	10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Aniline	ND	*	10	3.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Anthracene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Bis(2-chloroethoxy)methane	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Bis(2-chloroethyl)ether	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Bis(2-ethylhexyl) phthalate	ND		11	5.1	ug/L		09/14/20 17:45	09/17/20 02:34	1
4-Bromophenyl-phenylether	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Butylbenzylphthalate	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
4-Chloroaniline	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/14/20 17:45	09/17/20 02:34	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/14/20 17:45	09/17/20 02:34	1
2-Chlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Chrysene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
1,2-Dichlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
1,3-Dichlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
1,4-Dichlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,4-Dichlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,6-Dichlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Diethyl phthalate	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Dimethyl phthalate	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Di-n-butyl phthalate	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,4-Dinitrotoluene	ND		5.1	1.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,6-Dinitrotoluene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Di-n-octyl phthalate	ND		11	5.1	ug/L		09/14/20 17:45	09/17/20 02:34	1
Fluoranthene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Hexachlorobenzene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Hexachlorobutadiene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Hexachlorocyclopentadiene	ND		11	5.1	ug/L		09/14/20 17:45	09/17/20 02:34	1
Hexachloroethane	ND		5.1	1.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Hexachloropropene	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Isosafrole	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Methapyrilene	ND	*	51	15	ug/L		09/14/20 17:45	09/17/20 02:34	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
2-Methylphenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
4-Methylphenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Naphthalene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
4-Nitroaniline	ND		3.0	0.91	ug/L		09/14/20 17:45	09/17/20 02:34	1

Client Sample ID: FIELD DUPLICATE
Lab Sample ID: 410-13613-4
Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
4-Nitrophenol	ND		30	10	ug/L		09/14/20 17:45	09/17/20 02:34	1
N-Nitrosodiethylamine	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/14/20 17:45	09/17/20 02:34	1
N-Nitrosodi-n-propylamine	ND		3.0	0.71	ug/L		09/14/20 17:45	09/17/20 02:34	1
N-Nitrosopiperidine	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
N-Nitrosopyrrolidine	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Pentachlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Pentachloronitrobenzene	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Pentachlorophenol	ND		5.1	1.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Phenacetin	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Phenanthrene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Phenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
Pronamide	ND		5.1	1.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Pyrene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 02:34	1
Pyridine	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
Safrole, Total	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 02:34	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	72	ug/L		09/14/20 17:45	09/17/20 02:34	1
1,2,4-Trichlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,4,5-Trichlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,4,6-Trichlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 102*	*09/14/20 17:45*	*09/17/20 02:34*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 84*	*09/14/20 17:45*	*09/17/20 02:34*	*1*
Nitrobenzene-d5 (Surr)	*83*		*38 - 113*	*09/14/20 17:45*	*09/17/20 02:34*	*1*
Phenol-d5 (Surr)	*33*		*10 - 67*	*09/14/20 17:45*	*09/17/20 02:34*	*1*
p-Terphenyl-d14 (Surr)	*72*		*34 - 128*	*09/14/20 17:45*	*09/17/20 02:34*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*18 - 141*	*09/14/20 17:45*	*09/17/20 02:34*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/21/20 13:10	09/21/20 19:34	1
Isobutanol (1C)	ND		1000	150	ug/L		09/21/20 13:10	09/21/20 19:34	1
Methanol (2C)	ND		1000	220	ug/L		09/21/20 13:10	09/21/20 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*99*		*58 - 149*	*09/21/20 13:10*	*09/21/20 19:34*	*1*
Acetone (2C)	*103*		*58 - 149*	*09/21/20 13:10*	*09/21/20 19:34*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.020	0.0030	ug/L		09/17/20 09:00	09/17/20 19:50	1
alpha-Chlordane (1C)	ND		0.020	0.0030	ug/L		09/17/20 09:00	09/17/20 19:50	1
beta-BHC (1C)	ND		0.020	0.0034	ug/L		09/17/20 09:00	09/17/20 19:50	1
delta-BHC (1C)	ND		0.020	0.0034	ug/L		09/17/20 09:00	09/17/20 19:50	1
Endosulfan I (1C)	ND		0.020	0.0043	ug/L		09/17/20 09:00	09/17/20 19:50	1

Client Sample ID: FIELD DUPLICATE
Lab Sample ID: 410-13613-4

Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II (1C)	ND		0.040	0.015	ug/L		09/17/20 09:00	09/17/20 19:50	1
Endosulfan sulfate (1C)	ND		0.030	0.0058	ug/L		09/17/20 09:00	09/17/20 19:50	1
Endrin (1C)	ND		0.030	0.0081	ug/L		09/17/20 09:00	09/17/20 19:50	1
gamma-BHC (Lindane) (1C)	ND		0.020	0.0020	ug/L		09/17/20 09:00	09/17/20 19:50	1
gamma-Chlordane (1C)	ND		0.040	0.0070	ug/L		09/17/20 09:00	09/17/20 19:50	1
Heptachlor (1C)	ND		0.020	0.0020	ug/L		09/17/20 09:00	09/17/20 19:50	1
Heptachlor epoxide (1C)	ND		0.020	0.0023	ug/L		09/17/20 09:00	09/17/20 19:50	1
Methoxychlor (1C)	ND		0.11	0.030	ug/L		09/17/20 09:00	09/17/20 19:50	1
Toxaphene (1C)	ND		1.0	0.30	ug/L		09/17/20 09:00	09/17/20 19:50	1
p,p'-DDD (1C)	ND		0.030	0.0050	ug/L		09/17/20 09:00	09/17/20 19:50	1
p,p'-DDE (1C)	ND		0.030	0.0050	ug/L		09/17/20 09:00	09/17/20 19:50	1
p,p'-DDT (2C)	ND		0.030	0.0052	ug/L		09/17/20 09:00	09/17/20 19:50	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.16	ug/L		09/17/20 09:00	09/17/20 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*59*		*32 - 149*	*09/17/20 09:00*	*09/17/20 19:50*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*68*		*32 - 149*	*09/17/20 09:00*	*09/17/20 19:50*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*68*		*29 - 129*	*09/17/20 09:00*	*09/17/20 19:50*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*78*		*29 - 129*	*09/17/20 09:00*	*09/17/20 19:50*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND	*	0.048	0.0095	ug/L		09/15/20 00:30	09/17/20 21:56	1
2,4-D (1C)	ND	*	0.57	0.24	ug/L		09/15/20 00:30	09/17/20 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*56*		*34 - 142*	*09/15/20 00:30*	*09/17/20 21:56*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*61*		*34 - 142*	*09/15/20 00:30*	*09/17/20 21:56*	*1*

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 12:08	1
Carbofuran	ND		2.0	0.80	ug/L		09/16/20 21:42	09/17/20 14:19	1
Methiocarb	ND	*	2.0	1.0	ug/L		09/16/20 21:42	09/17/20 14:19	1
Methomyl	ND	*	2.0	1.0	ug/L		09/16/20 21:42	09/22/20 12:08	1
Oxamyl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*96*		*80 - 120*	*09/16/20 21:42*	*09/17/20 14:19*	*1*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*105*		*80 - 120*	*09/16/20 21:42*	*09/22/20 12:08*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/14/20 03:18	09/19/20 17:34	1
Barium	**52**		2.0	0.75	ug/L		09/14/20 03:18	09/19/20 17:34	1
Cadmium	ND		0.50	0.15	ug/L		09/14/20 03:18	09/19/20 17:34	1
Chromium	**3.8**		2.0	0.33	ug/L		09/14/20 03:18	09/19/20 17:34	1
Lead	**7.5**		0.50	0.071	ug/L		09/14/20 03:18	09/19/20 17:34	1

Client Sample ID: FIELD DUPLICATE
Lab Sample ID: 410-13613-4

Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0	0.28	ug/L		09/14/20 03:18	09/19/20 17:34	1
Silver	ND		0.50	0.17	ug/L		09/14/20 03:18	09/19/20 17:34	1
Calcium	**35000**	*	100	74	ug/L		09/14/20 03:18	09/19/20 17:34	1
Nickel	**5.5**		1.0	0.60	ug/L		09/24/20 13:08	09/26/20 14:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/14/20 09:24	09/15/20 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	**0.0067**	**J**	0.010	0.0050	mg/L			10/06/20 11:30	1
Cyanide, Total	**0.0067**	**J**	0.010	0.0050	mg/L		09/17/20 15:03	09/19/20 11:39	1

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 410-13613-5

Date Collected: 09/10/20 10:00
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			09/22/20 20:50	1
Acrylonitrile	ND		20	0.30	ug/L			09/22/20 20:50	1
Benzene	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Bromoform	ND		4.0	1.0	ug/L			09/22/20 20:50	1
Bromomethane	ND		1.0	0.30	ug/L			09/22/20 20:50	1
2-Butanone	ND		10	0.30	ug/L			09/22/20 20:50	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/22/20 20:50	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Chloroethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Chloroform	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Chloromethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 20:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/22/20 20:50	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Dibromomethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/20 20:50	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/22/20 20:50	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
1,4-Dioxane	ND		250	29	ug/L			09/22/20 20:50	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/22/20 20:50	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/20 20:50	1
Ethyl ether	ND		5.0	0.20	ug/L			09/22/20 20:50	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 20:50	1
Freon 113	ND		10	0.20	ug/L			09/22/20 20:50	1
Methacrylonitrile	ND		50	6.0	ug/L			09/22/20 20:50	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/22/20 20:50	1
Methyl iodide	ND		1.0	0.20	ug/L			09/22/20 20:50	1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 410-13613-5

Date Collected: 09/10/20 10:00

Matrix: Water

Date Received: 09/10/20 17:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 20:50	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/22/20 20:50	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/22/20 20:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Toluene	ND		1.0	0.20	ug/L			09/22/20 20:50	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/22/20 20:50	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 20:50	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/22/20 20:50	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/22/20 20:50	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Trichloroethene	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/22/20 20:50	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/20 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/22/20 20:50*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/22/20 20:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/22/20 20:50*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/22/20 20:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
2-Acetylaminofluorene	ND		21	10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Aniline	ND	*	10	3.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Anthracene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Bis(2-chloroethoxy)methane	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Bis(2-chloroethyl)ether	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Bis(2-ethylhexyl) phthalate	ND		11	5.1	ug/L		09/14/20 17:45	09/17/20 03:03	1
4-Bromophenyl-phenylether	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Butylbenzylphthalate	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
4-Chloroaniline	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/14/20 17:45	09/17/20 03:03	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/14/20 17:45	09/17/20 03:03	1
2-Chlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Chrysene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
1,2-Dichlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
1,3-Dichlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
1,4-Dichlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,4-Dichlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,6-Dichlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Diethyl phthalate	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Dimethyl phthalate	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 03:03	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station - Waste Pad Closure 2020

Job ID: 410-13613-1

Client Sample ID: EQUIPMENT BLANK
Date Collected: 09/10/20 10:00
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,4-Dinitrotoluene	ND		5.1	1.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,6-Dinitrotoluene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Di-n-octyl phthalate	ND		11	5.1	ug/L		09/14/20 17:45	09/17/20 03:03	1
Fluoranthene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Hexachlorobenzene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Hexachlorobutadiene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Hexachlorocyclopentadiene	ND		11	5.1	ug/L		09/14/20 17:45	09/17/20 03:03	1
Hexachloroethane	ND		5.1	1.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Hexachloropropene	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Isosafrole	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Methapyrilene	ND	*	51	15	ug/L		09/14/20 17:45	09/17/20 03:03	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
2-Methylphenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
4-Methylphenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Naphthalene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
4-Nitroaniline	ND		3.0	0.91	ug/L		09/14/20 17:45	09/17/20 03:03	1
Nitrobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
4-Nitrophenol	ND		30	10	ug/L		09/14/20 17:45	09/17/20 03:03	1
N-Nitrosodiethylamine	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/14/20 17:45	09/17/20 03:03	1
N-Nitrosodi-n-propylamine	ND		3.0	0.71	ug/L		09/14/20 17:45	09/17/20 03:03	1
N-Nitrosopiperidine	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
N-Nitrosopyrrolidine	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Pentachlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Pentachloronitrobenzene	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Pentachlorophenol	ND		5.1	1.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Phenacetin	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Phenanthrene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Phenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
Pronamide	ND		5.1	1.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Pyrene	ND		0.51	0.10	ug/L		09/14/20 17:45	09/17/20 03:03	1
Pyridine	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
Safrole, Total	ND		5.1	2.0	ug/L		09/14/20 17:45	09/17/20 03:03	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	72	ug/L		09/14/20 17:45	09/17/20 03:03	1
1,2,4-Trichlorobenzene	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,4,5-Trichlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,4,6-Trichlorophenol	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.51	ug/L		09/14/20 17:45	09/17/20 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*44 - 102*	*09/14/20 17:45*	*09/17/20 03:03*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 84*	*09/14/20 17:45*	*09/17/20 03:03*	*1*
Nitrobenzene-d5 (Surr)	*92*		*38 - 113*	*09/14/20 17:45*	*09/17/20 03:03*	*1*
Phenol-d5 (Surr)	*31*		*10 - 67*	*09/14/20 17:45*	*09/17/20 03:03*	*1*
p-Terphenyl-d14 (Surr)	*75*		*34 - 128*	*09/14/20 17:45*	*09/17/20 03:03*	*1*

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 410-13613-5

Date Collected: 09/10/20 10:00
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*77*		*18 - 141*	*09/14/20 17:45*	*09/17/20 03:03*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/21/20 13:10	09/21/20 19:51	1
Isobutanol (1C)	ND		1000	150	ug/L		09/21/20 13:10	09/21/20 19:51	1
Methanol (2C)	ND		1000	220	ug/L		09/21/20 13:10	09/21/20 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetone (1C)	*111*		*58 - 149*	*09/21/20 13:10*	*09/21/20 19:51*	*1*
Acetone (2C)	*99*		*58 - 149*	*09/21/20 13:10*	*09/21/20 19:51*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.021	0.0031	ug/L		09/15/20 09:00	09/16/20 00:11	1
alpha-Chlordane (1C)	ND		0.021	0.0031	ug/L		09/15/20 09:00	09/16/20 00:11	1
beta-BHC (1C)	ND		0.021	0.0035	ug/L		09/15/20 09:00	09/16/20 00:11	1
delta-BHC (1C)	ND		0.021	0.0035	ug/L		09/15/20 09:00	09/16/20 00:11	1
Endosulfan I (1C)	ND		0.021	0.0045	ug/L		09/15/20 09:00	09/16/20 00:11	1
Endosulfan II (1C)	ND		0.041	0.016	ug/L		09/15/20 09:00	09/16/20 00:11	1
Endosulfan sulfate (1C)	ND		0.031	0.0060	ug/L		09/15/20 09:00	09/16/20 00:11	1
Endrin (1C)	ND		0.031	0.0084	ug/L		09/15/20 09:00	09/16/20 00:11	1
gamma-BHC (Lindane) (1C)	ND		0.021	0.0021	ug/L		09/15/20 09:00	09/16/20 00:11	1
gamma-Chlordane (1C)	ND		0.041	0.0073	ug/L		09/15/20 09:00	09/16/20 00:11	1
Heptachlor (1C)	ND		0.021	0.0021	ug/L		09/15/20 09:00	09/16/20 00:11	1
Heptachlor epoxide (1C)	ND		0.021	0.0024	ug/L		09/15/20 09:00	09/16/20 00:11	1
Methoxychlor (1C)	ND		0.11	0.031	ug/L		09/15/20 09:00	09/16/20 00:11	1
Toxaphene (1C)	ND		1.0	0.31	ug/L		09/15/20 09:00	09/16/20 00:11	1
p,p'-DDD (1C)	ND		0.031	0.0052	ug/L		09/15/20 09:00	09/16/20 00:11	1
p,p'-DDE (1C)	ND		0.031	0.0052	ug/L		09/15/20 09:00	09/16/20 00:11	1
p,p'-DDT (2C)	ND		0.031	0.0054	ug/L		09/15/20 09:00	09/16/20 00:11	1
Chlordane (n.o.s.) (1C)	ND		0.52	0.17	ug/L		09/15/20 09:00	09/16/20 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	*83*		*32 - 149*	*09/15/20 09:00*	*09/16/20 00:11*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*88*		*32 - 149*	*09/15/20 09:00*	*09/16/20 00:11*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*62*		*29 - 129*	*09/15/20 09:00*	*09/16/20 00:11*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*70*		*29 - 129*	*09/15/20 09:00*	*09/16/20 00:11*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	0.050	0.0099	ug/L		09/15/20 00:30	09/17/20 22:30	1
2,4-D (1C)	ND	*	0.59	0.25	ug/L		09/15/20 00:30	09/17/20 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	*48*		*34 - 142*	*09/15/20 00:30*	*09/17/20 22:30*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*51*		*34 - 142*	*09/15/20 00:30*	*09/17/20 22:30*	*1*

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station - Waste Pad Closure 2020

Job ID: 410-13613-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 410-13613-5
Matrix: Water
Date Collected: 09/10/20 10:00
Date Received: 09/10/20 17:18

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 12:58	1
Carbofuran	ND		2.0	0.80	ug/L		09/16/20 21:42	09/22/20 12:58	1
Methiocarb	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 12:58	1
Methomyl	ND	*	2.0	1.0	ug/L		09/16/20 21:42	09/22/20 12:58	1
Oxamyl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*105*		*80 - 120*	*09/16/20 21:42*	*09/22/20 12:58*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/14/20 03:18	09/19/20 17:36	1
Barium	ND		2.0	0.75	ug/L		09/14/20 03:18	09/19/20 17:36	1
Cadmium	ND		0.50	0.15	ug/L		09/14/20 03:18	09/19/20 17:36	1
Chromium	ND		2.0	0.33	ug/L		09/14/20 03:18	09/19/20 17:36	1
Lead	ND		0.50	0.071	ug/L		09/14/20 03:18	09/19/20 17:36	1
Selenium	ND		1.0	0.28	ug/L		09/14/20 03:18	09/19/20 17:36	1
Silver	ND		0.50	0.17	ug/L		09/14/20 03:18	09/19/20 17:36	1
Calcium	**160**	*	100	74	ug/L		09/14/20 03:18	09/19/20 17:36	1
Nickel	ND		1.0	0.60	ug/L		09/14/20 03:18	09/19/20 17:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/14/20 09:31	09/15/20 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.010	0.0050	mg/L			10/06/20 11:30	1
Cyanide, Total	ND		0.010	0.0050	mg/L		09/17/20 15:03	09/19/20 11:38	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-13613-6
Matrix: Water
Date Collected: 09/10/20 00:00
Date Received: 09/10/20 17:18

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			09/22/20 21:12	1
Acrylonitrile	ND		20	0.30	ug/L			09/22/20 21:12	1
Benzene	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Bromoform	ND		4.0	1.0	ug/L			09/22/20 21:12	1
Bromomethane	ND		1.0	0.30	ug/L			09/22/20 21:12	1
2-Butanone	ND		10	0.30	ug/L			09/22/20 21:12	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/22/20 21:12	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Chloroethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Chloroform	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Chloromethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 21:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/22/20 21:12	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station - Waste Pad Closure 2020

Job ID: 410-13613-1

Client Sample ID: Trip Blank

Date Collected: 09/10/20 00:00
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Dibromomethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/20 21:12	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/22/20 21:12	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
1,4-Dioxane	ND		250	29	ug/L			09/22/20 21:12	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/22/20 21:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/20 21:12	1
Ethyl ether	ND		5.0	0.20	ug/L			09/22/20 21:12	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 21:12	1
Freon 113	ND		10	0.20	ug/L			09/22/20 21:12	1
Methacrylonitrile	ND		50	6.0	ug/L			09/22/20 21:12	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/22/20 21:12	1
Methyl iodide	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 21:12	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/22/20 21:12	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/22/20 21:12	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Toluene	ND		1.0	0.20	ug/L			09/22/20 21:12	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/22/20 21:12	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 21:12	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/22/20 21:12	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/22/20 21:12	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Trichloroethene	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/22/20 21:12	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/20 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/22/20 21:12*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/22/20 21:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/22/20 21:12*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/22/20 21:12*	*1*

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station - Waste Pad Closure 2020

Job ID: 410-13613-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-13613-1	PAD A	99	99	97	99
410-13613-2	PAD B	98	99	96	98
410-13613-2 MS	PAD B	100	102	100	98
410-13613-2 MSD	PAD B	100	101	102	95
410-13613-3	PAD C	99	102	100	99
410-13613-4	FIELD DUPLICATE	104	100	97	104
410-13613-5	EQUIPMENT BLANK	98	99	98	99
410-13613-6	Trip Blank	99	103	102	98
LCS 410-46555/5	Lab Control Sample	103	101	102	95
LCS 410-46555/6	Lab Control Sample	101	101	101	99
MB 410-46555/8	Method Blank	100	100	98	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHd14	TBP
Lab Sample ID	Client Sample ID	(44-102)	(10-84)	(38-113)	(10-67)	(34-128)	(18-141)
410-13613-1	PAD A	61	39	76	30	77	62
410-13613-2	PAD B	64	51	70	36	86	91
410-13613-2 MS	PAD B	81	56	84	41	88	97
410-13613-2 MSD	PAD B	80	46	80	35	90	95
410-13613-3	PAD C	69	46	77	33	86	100
410-13613-4	FIELD DUPLICATE	71	42	83	33	72	80
410-13613-5	EQUIPMENT BLANK	76	39	92	31	75	77
LCS 410-43630/2-A	Lab Control Sample	82	42	89	35	76	80
LCS 410-44329/2-A	Lab Control Sample	78	58	86	42	92	98
LCS 410-44329/3-A	Lab Control Sample	0.02 X	0.03 X	0.02 X	0.02 X	0.04 X	0.09 X
LCSD 410-43630/4-A	Lab Control Sample Dup	75	39	87	31	73	83
LCSD 410-44329/4-A	Lab Control Sample Dup	69	53	74	40	71	84
MB 410-43630/1-A	Method Blank	76	40	89	32	67	84
MB 410-44329/1-A	Method Blank	71	54	88	38	94	96

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-1
Project/Site: Experimental Station - Waste Pad Closure 2020

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		Acetone1	Acetone2								
Lab Sample ID	Client Sample ID	(58-149)	(58-149)								
410-13613-1	PAD A	109	101								
410-13613-2	PAD B	107	99								
410-13613-2 MS	PAD B	102	99								
410-13613-2 MSD	PAD B	98	96								
410-13613-3	PAD C	111	103								
410-13613-4	FIELD DUPLICATE	99	103								
410-13613-5	EQUIPMENT BLANK	111	99								
LCS 410-46046/2-A	Lab Control Sample	101	101								
MB 410-46046/1-A	Method Blank	96	105								

Surrogate Legend

Acetone = Acetone

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	DCB2	TCX1	TCX2						
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)						
410-13613-1	PAD A	65	69	56	67						
410-13613-2	PAD B	51	57	48	56						
410-13613-2 MS	PAD B	52	56	53	59						
410-13613-2 MSD	PAD B	51	55	64	66						
410-13613-3	PAD C	61	65	60	68						
410-13613-4	FIELD DUPLICATE	59	68	68	78						
410-13613-5	EQUIPMENT BLANK	83	88	62	70						
LCS 410-43860/2-A	Lab Control Sample	73	80	46	54						
LCS 410-44820/2-A	Lab Control Sample	51	61	72	82						
MB 410-43860/1-A	Method Blank	57	63	58	68						
MB 410-44820/1-A	Method Blank	67	76	61	69						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA1	DCPAA2								
Lab Sample ID	Client Sample ID	(34-142)	(34-142)								
410-13613-1	PAD A	106	53 p								
410-13613-2	PAD B	63	62								
410-13613-2 MS	PAD B	68	67								
410-13613-2 MSD	PAD B	64	66								
410-13613-3	PAD C	51	56								
410-13613-4	FIELD DUPLICATE	56	61								
410-13613-5	EQUIPMENT BLANK	48	51								
LCS 410-43788/2-A	Lab Control Sample	67	63								
MB 410-43788/1-A	Method Blank	51									

Surrogate Legend

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-1
Project/Site: Experimental Station - Waste Pad Closure 2020

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 531.1 - Carbamate Pesticides (HPLC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BDMC (80-120)
410-13613-1	PAD A	99
410-13613-2	PAD B	96
410-13613-2	PAD B	98
410-13613-2 MS	PAD B	94
410-13613-2 MS	PAD B	96
410-13613-2 MSD	PAD B	93
410-13613-2 MSD	PAD B	98
410-13613-3	PAD C	103
410-13613-4	FIELD DUPLICATE	96
410-13613-4	FIELD DUPLICATE	105
410-13613-5	EQUIPMENT BLANK	105
LCS 410-44699/2-A	Lab Control Sample	94
LCS 410-44699/2-A	Lab Control Sample	97
MB 410-44699/1-A	Method Blank	92
MB 410-44699/1-A	Method Blank	94

Surrogate Legend

BDMC = 4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station - Waste Pad Closure 2020

Job ID: 410-13613-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-46555/8
Matrix: Water
Analysis Batch: 46555

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			09/22/20 20:14	1
Acrylonitrile	ND		20	0.30	ug/L			09/22/20 20:14	1
Benzene	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Bromoform	ND		4.0	1.0	ug/L			09/22/20 20:14	1
Bromomethane	ND		1.0	0.30	ug/L			09/22/20 20:14	1
2-Butanone	ND		10	0.30	ug/L			09/22/20 20:14	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/22/20 20:14	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Chloroethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Chloroform	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Chloromethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 20:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/22/20 20:14	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Dibromomethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/20 20:14	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/22/20 20:14	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
1,4-Dioxane	ND		250	29	ug/L			09/22/20 20:14	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/22/20 20:14	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/20 20:14	1
Ethyl ether	ND		5.0	0.20	ug/L			09/22/20 20:14	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 20:14	1
Freon 113	ND		10	0.20	ug/L			09/22/20 20:14	1
Methacrylonitrile	ND		50	6.0	ug/L			09/22/20 20:14	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/22/20 20:14	1
Methyl iodide	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/22/20 20:14	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/22/20 20:14	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/22/20 20:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Toluene	ND		1.0	0.20	ug/L			09/22/20 20:14	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/22/20 20:14	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/22/20 20:14	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/22/20 20:14	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/22/20 20:14	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Trichloroethene	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/22/20 20:14	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/20 20:14	1

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

Lab Sample ID: MB 410-46555/8
Matrix: Water
Analysis Batch: 46555

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/22/20 20:14*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/22/20 20:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/22/20 20:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/22/20 20:14*	*1*

Lab Sample ID: LCS 410-46555/5
Matrix: Water
Analysis Batch: 46555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	150	141		ug/L		94	54 - 157
Acrylonitrile	100	101		ug/L		101	60 - 129
Benzene	20.0	21.6		ug/L		108	80 - 120
Bromoform	20.0	20.8		ug/L		104	51 - 120
Bromomethane	20.0	16.8		ug/L		84	53 - 128
2-Butanone	150	154		ug/L		102	59 - 135
Carbon disulfide	20.0	22.8		ug/L		114	65 - 128
Carbon tetrachloride	20.0	21.8		ug/L		109	64 - 134
Chlorobenzene	20.0	21.2		ug/L		106	80 - 120
Chloroethane	20.0	17.2		ug/L		86	55 - 123
Chloroform	20.0	21.4		ug/L		107	80 - 120
Chloromethane	20.0	17.4		ug/L		87	56 - 121
cis-1,3-Dichloropropene	20.0	20.1		ug/L		101	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	20.2		ug/L		101	47 - 131
1,2-Dibromoethane	20.0	20.4		ug/L		102	77 - 120
Dibromomethane	20.0	21.3		ug/L		106	80 - 120
Dichlorodifluoromethane	20.0	15.0		ug/L		75	41 - 127
1,1-Dichloroethane	20.0	22.0		ug/L		110	80 - 120
1,2-Dichloroethane	20.0	19.7		ug/L		99	73 - 124
1,1-Dichloroethene	20.0	22.7		ug/L		114	80 - 131
1,2-Dichloropropane	20.0	21.6		ug/L		108	80 - 120
1,4-Dioxane	500	507		ug/L		101	63 - 146
Ethylbenzene	20.0	21.7		ug/L		108	80 - 120
Ethyl methacrylate	20.0	20.6		ug/L		103	59 - 141
Freon 113	20.0	20.7		ug/L		103	73 - 139
Methacrylonitrile	150	158		ug/L		105	73 - 124
Methylene Chloride	20.0	22.8		ug/L		114	80 - 120
Methyl iodide	20.0	22.0		ug/L		110	73 - 125
Methyl methacrylate	20.0	21.0		ug/L		105	61 - 121
4-Methyl-2-pentanone	100	102		ug/L		102	62 - 133
Pentachloroethane	20.0	22.3		ug/L		112	70 - 120
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	78 - 120
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	72 - 120
Tetrachloroethene	20.0	20.0		ug/L		100	80 - 120
Toluene	20.0	20.6		ug/L		103	80 - 120
trans-1,2-Dichloroethene	20.0	22.2		ug/L		111	80 - 126
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	67 - 120
1,2,4-Trichlorobenzene	20.0	20.3		ug/L		102	63 - 120

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

Lab Sample ID: LCS 410-46555/5
Matrix: Water
Analysis Batch: 46555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.9		ug/L		105	67 - 126
1,1,2-Trichloroethane	20.0	21.9		ug/L		110	80 - 120
Trichloroethene	20.0	20.2		ug/L		101	80 - 120
Trichlorofluoromethane	20.0	17.6		ug/L		88	55 - 135
Vinyl chloride	20.0	18.1		ug/L		90	56 - 120
Xylenes, Total	60.0	63.8		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCS 410-46555/6
Matrix: Water
Analysis Batch: 46555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl acetate	20.0	21.0		ug/L		105	67 - 131
Ethyl ether	20.0	19.7		ug/L		98	59 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 46555

Client Sample ID: PAD B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	4.7	J	150	136		ug/L		88	54 - 157
Acrylonitrile	ND		100	101		ug/L		101	60 - 129
Benzene	ND		20.0	23.3		ug/L		116	80 - 120
Bromoform	ND		20.0	20.6		ug/L		103	51 - 120
Bromomethane	ND		20.0	17.9		ug/L		89	53 - 128
2-Butanone	ND		150	155		ug/L		103	59 - 135
Carbon disulfide	ND		20.0	24.3		ug/L		121	65 - 128
Carbon tetrachloride	ND		20.0	25.0		ug/L		125	64 - 134
Chlorobenzene	ND		20.0	22.3		ug/L		111	80 - 120
Chloroethane	ND		20.0	18.0		ug/L		90	55 - 123
Chloroform	15		20.0	37.4		ug/L		113	80 - 120
Chloromethane	ND		20.0	18.3		ug/L		92	56 - 121
cis-1,3-Dichloropropene	ND		20.0	21.5		ug/L		107	75 - 120
1,2-Dibromo-3-Chloropropane	ND		20.0	19.7		ug/L		99	47 - 131
1,2-Dibromoethane	ND		20.0	20.7		ug/L		103	77 - 120
Dibromomethane	ND		20.0	21.9		ug/L		109	80 - 120

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

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 46555

Client Sample ID: PAD B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		20.0	17.6		ug/L		88	41 - 127
1,1-Dichloroethane	ND		20.0	23.2		ug/L		116	80 - 120
1,2-Dichloroethane	ND		20.0	21.1		ug/L		106	73 - 124
1,1-Dichloroethene	ND		20.0	25.1		ug/L		126	80 - 131
1,2-Dichloropropane	ND		20.0	22.8		ug/L		114	80 - 120
1,4-Dioxane	ND		500	508		ug/L		102	63 - 146
Ethylbenzene	ND		20.0	22.8		ug/L		114	80 - 120
Ethyl methacrylate	ND		20.0	20.4		ug/L		102	59 - 141
Freon 113	ND		20.0	24.3		ug/L		122	73 - 139
Methacrylonitrile	ND		150	156		ug/L		104	73 - 124
Methylene Chloride	ND		20.0	23.6		ug/L		118	80 - 120
Methyl iodide	ND		20.0	22.8		ug/L		114	73 - 125
Methyl methacrylate	ND		20.0	20.7		ug/L		103	61 - 121
4-Methyl-2-pentanone	ND		100	105		ug/L		105	62 - 133
Pentachloroethane	ND		20.0	22.5		ug/L		113	70 - 120
1,1,1,2-Tetrachloroethane	ND		20.0	21.3		ug/L		107	78 - 120
1,1,2,2-Tetrachloroethane	ND		20.0	21.1		ug/L		106	72 - 120
Tetrachloroethene	ND		20.0	22.1		ug/L		110	80 - 120
Toluene	ND		20.0	22.6		ug/L		113	80 - 120
trans-1,2-Dichloroethene	ND		20.0	24.2		ug/L		121	80 - 126
trans-1,3-Dichloropropene	ND		20.0	20.9		ug/L		105	67 - 120
1,2,4-Trichlorobenzene	ND		20.0	20.6		ug/L		103	63 - 120
1,1,1-Trichloroethane	ND		20.0	24.0		ug/L		120	67 - 126
1,1,2-Trichloroethane	ND		20.0	21.9		ug/L		110	80 - 120
Trichloroethene	ND	F1	20.0	23.7		ug/L		119	80 - 120
Trichlorofluoromethane	ND		20.0	20.4		ug/L		102	55 - 135
Vinyl chloride	ND		20.0	20.8		ug/L		104	56 - 120
Xylenes, Total	ND		60.0	68.4		ug/L		114	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 46555

Client Sample ID: PAD B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl acetate	ND		20.0	21.1		ug/L			
Ethyl ether	ND		20.0	20.1		ug/L			

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 46555

Client Sample ID: PAD B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	4.7	J	150	144		ug/L		93	54 - 157	5	30

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

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 46555

Client Sample ID: PAD B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrylonitrile	ND		100	99.5		ug/L		100	60 - 129	1	30
Benzene	ND		20.0	23.3		ug/L		117	80 - 120	0	30
Bromoform	ND		20.0	20.5		ug/L		102	51 - 120	0	30
Bromomethane	ND		20.0	17.9		ug/L		89	53 - 128	0	30
2-Butanone	ND		150	153		ug/L		102	59 - 135	1	30
Carbon disulfide	ND		20.0	24.3		ug/L		121	65 - 128	0	30
Carbon tetrachloride	ND		20.0	25.4		ug/L		127	64 - 134	1	30
Chlorobenzene	ND		20.0	22.5		ug/L		112	80 - 120	1	30
Chloroethane	ND		20.0	19.0		ug/L		95	55 - 123	5	30
Chloroform	15		20.0	38.9		ug/L		120	80 - 120	4	30
Chloromethane	ND		20.0	18.6		ug/L		93	56 - 121	1	30
cis-1,3-Dichloropropene	ND		20.0	21.8		ug/L		109	75 - 120	1	30
1,2-Dibromo-3-Chloropropane	ND		20.0	19.5		ug/L		98	47 - 131	1	30
1,2-Dibromoethane	ND		20.0	20.8		ug/L		104	77 - 120	0	30
Dibromomethane	ND		20.0	21.7		ug/L		109	80 - 120	1	30
Dichlorodifluoromethane	ND		20.0	16.0		ug/L		80	41 - 127	9	30
1,1-Dichloroethane	ND		20.0	23.7		ug/L		118	80 - 120	2	30
1,2-Dichloroethane	ND		20.0	21.8		ug/L		109	73 - 124	3	30
1,1-Dichloroethene	ND		20.0	25.5		ug/L		127	80 - 131	1	30
1,2-Dichloropropane	ND		20.0	22.9		ug/L		114	80 - 120	1	30
1,4-Dioxane	ND		500	492		ug/L		98	63 - 146	3	30
Ethylbenzene	ND		20.0	23.0		ug/L		115	80 - 120	1	30
Ethyl methacrylate	ND		20.0	20.7		ug/L		104	59 - 141	2	30
Freon 113	ND		20.0	24.5		ug/L		122	73 - 139	1	30
Methacrylonitrile	ND		150	158		ug/L		106	73 - 124	1	30
Methylene Chloride	ND		20.0	23.5		ug/L		118	80 - 120	0	30
Methyl iodide	ND		20.0	23.2		ug/L		116	73 - 125	2	30
Methyl methacrylate	ND		20.0	21.2		ug/L		106	61 - 121	2	30
4-Methyl-2-pentanone	ND		100	106		ug/L		106	62 - 133	1	30
Pentachloroethane	ND		20.0	23.0		ug/L		115	70 - 120	2	30
1,1,1,2-Tetrachloroethane	ND		20.0	21.4		ug/L		107	78 - 120	1	30
1,1,2,2-Tetrachloroethane	ND		20.0	20.8		ug/L		104	72 - 120	1	30
Tetrachloroethene	ND		20.0	22.0		ug/L		110	80 - 120	1	30
Toluene	ND		20.0	22.5		ug/L		113	80 - 120	0	30
trans-1,2-Dichloroethene	ND		20.0	24.3		ug/L		122	80 - 126	1	30
trans-1,3-Dichloropropene	ND		20.0	20.9		ug/L		105	67 - 120	0	30
1,2,4-Trichlorobenzene	ND		20.0	21.2		ug/L		106	63 - 120	3	30
1,1,1-Trichloroethane	ND		20.0	24.3		ug/L		121	67 - 126	1	30
1,1,2-Trichloroethane	ND		20.0	22.2		ug/L		111	80 - 120	1	30
Trichloroethene	ND	F1	20.0	24.1	F1	ug/L		121	80 - 120	2	30
Trichlorofluoromethane	ND		20.0	20.2		ug/L		101	55 - 135	1	30
Vinyl chloride	ND		20.0	20.3		ug/L		101	56 - 120	2	30
Xylenes, Total	ND		60.0	68.1		ug/L		114	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 46555

Client Sample ID: PAD B
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 46555

Client Sample ID: PAD B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate	ND		20.0	21.4		ug/L					
Ethyl ether	ND		20.0	20.1		ug/L					

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-43630/1-A
Matrix: Water
Analysis Batch: 44209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	4.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
2-Acetylaminofluorene	ND		21	10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Aniline	ND		10	3.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Anthracene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Bis(2-chloroethoxy)methane	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Bis(2-chloroethyl)ether	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Bis(2-ethylhexyl) phthalate	ND		11	5.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
4-Bromophenyl-phenylether	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Butylbenzylphthalate	ND		5.0	2.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
4-Chloroaniline	ND		10	4.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/14/20 17:45	09/16/20 03:20	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/14/20 17:45	09/16/20 03:20	1
2-Chlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Chrysene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,4-Dichlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,6-Dichlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Diethyl phthalate	ND		5.0	2.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Dimethyl phthalate	ND		5.0	2.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Di-n-butyl phthalate	ND		5.0	2.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,4-Dinitrotoluene	ND		5.0	1.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,6-Dinitrotoluene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Di-n-octyl phthalate	ND		11	5.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Fluoranthene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Hexachlorobenzene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-43630/1-A
Matrix: Water
Analysis Batch: 44209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Hexachlorocyclopentadiene	ND		11	5.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Hexachloroethane	ND		5.0	1.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Hexachloropropene	ND		5.0	2.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Isosafrole	ND		10	4.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Methapyrilene	ND		50	15	ug/L		09/14/20 17:45	09/16/20 03:20	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
2-Methylphenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
4-Methylphenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Naphthalene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
4-Nitroaniline	ND		3.0	0.90	ug/L		09/14/20 17:45	09/16/20 03:20	1
Nitrobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
4-Nitrophenol	ND		30	10	ug/L		09/14/20 17:45	09/16/20 03:20	1
N-Nitrosodiethylamine	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/14/20 17:45	09/16/20 03:20	1
N-Nitrosodi-n-propylamine	ND		3.0	0.70	ug/L		09/14/20 17:45	09/16/20 03:20	1
N-Nitrosopiperidine	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
N-Nitrosopyrrolidine	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Pentachlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Pentachloronitrobenzene	ND		5.0	2.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Pentachlorophenol	ND		5.0	1.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Phenacetin	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Phenanthrene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Phenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
Pronamide	ND		5.0	1.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Pyrene	ND		0.50	0.10	ug/L		09/14/20 17:45	09/16/20 03:20	1
Pyridine	ND		5.0	2.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
Safrole, Total	ND		5.0	2.0	ug/L		09/14/20 17:45	09/16/20 03:20	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	71	ug/L		09/14/20 17:45	09/16/20 03:20	1
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,4,6-Trichlorophenol	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.50	ug/L		09/14/20 17:45	09/16/20 03:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*44 - 102*	*09/14/20 17:45*	*09/16/20 03:20*	*1*
2-Fluorophenol (Surr)	*40*		*10 - 84*	*09/14/20 17:45*	*09/16/20 03:20*	*1*
Nitrobenzene-d5 (Surr)	*89*		*38 - 113*	*09/14/20 17:45*	*09/16/20 03:20*	*1*
Phenol-d5 (Surr)	*32*		*10 - 67*	*09/14/20 17:45*	*09/16/20 03:20*	*1*
p-Terphenyl-d14 (Surr)	*67*		*34 - 128*	*09/14/20 17:45*	*09/16/20 03:20*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*18 - 141*	*09/14/20 17:45*	*09/16/20 03:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-43630/2-A
Matrix: Water
Analysis Batch: 44209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	50.1	43.6		ug/L		87	61 - 114
Aniline	50.0	21.6	*	ug/L		43	45 - 87
Anthracene	50.1	42.8		ug/L		85	67 - 116
Benzo[a]anthracene	50.0	44.5		ug/L		89	68 - 123
Benzo[a]pyrene	50.2	41.9		ug/L		84	71 - 117
Bis(2-chloroethoxy)methane	50.4	44.6		ug/L		89	63 - 116
Bis(2-chloroethyl)ether	50.3	40.7		ug/L		81	58 - 108
Bis(2-ethylhexyl) phthalate	50.3	40.0		ug/L		80	61 - 129
4-Bromophenyl-phenylether	50.3	44.8		ug/L		89	60 - 114
Butylbenzylphthalate	50.0	30.7		ug/L		61	40 - 133
4-Chloroaniline	50.0	32.5		ug/L		65	45 - 111
4-Chloro-3-methylphenol	50.0	35.0		ug/L		70	60 - 118
2-Chloronaphthalene	50.0	39.4		ug/L		79	51 - 107
2-Chlorophenol	50.2	28.7		ug/L		57	57 - 105
Chrysene	50.0	41.4		ug/L		83	65 - 121
Dibenz(a,h)anthracene	50.2	47.7		ug/L		95	63 - 128
1,2-Dichlorobenzene	50.0	35.5		ug/L		71	35 - 104
1,3-Dichlorobenzene	50.0	34.4		ug/L		69	28 - 103
1,4-Dichlorobenzene	50.0	34.1		ug/L		68	34 - 97
2,4-Dichlorophenol	50.1	36.1		ug/L		72	65 - 110
Diethyl phthalate	50.1	34.8		ug/L		70	41 - 126
2,4-Dimethylphenol	50.1	31.7		ug/L		63	53 - 93
Dimethyl phthalate	50.0	26.0		ug/L		52	10 - 134
Di-n-butyl phthalate	50.2	36.8		ug/L		73	58 - 125
2,4-Dinitrophenol	100	52.1		ug/L		52	44 - 134
2,4-Dinitrotoluene	50.3	43.8		ug/L		87	66 - 122
2,6-Dinitrotoluene	50.3	45.7		ug/L		91	71 - 120
Di-n-octyl phthalate	50.2	38.3		ug/L		76	60 - 136
Fluoranthene	50.1	45.7		ug/L		91	63 - 122
Hexachlorobenzene	50.1	45.8		ug/L		91	60 - 117
Hexachlorobutadiene	50.4	39.7		ug/L		79	20 - 108
Hexachlorocyclopentadiene	101	24.1		ug/L		24	10 - 91
Hexachloroethane	50.3	32.5		ug/L		65	23 - 95
Indeno[1,2,3-cd]pyrene	50.2	44.1		ug/L		88	59 - 123
2-Methylphenol	50.2	30.8		ug/L		61	53 - 107
4-Methylphenol	50.1	32.1		ug/L		64	49 - 108
Naphthalene	50.4	40.0		ug/L		79	51 - 102
4-Nitroaniline	50.1	33.4		ug/L		67	55 - 113
Nitrobenzene	50.2	45.3		ug/L		90	59 - 109
4-Nitrophenol	50.1	18.5	J	ug/L		37	23 - 89
N-Nitrosodi-n-propylamine	50.0	45.2		ug/L		90	58 - 120
Pentachlorophenol	50.4	36.4		ug/L		72	54 - 131
Phenanthrene	50.2	44.7		ug/L		89	65 - 113
Phenol	50.2	19.7		ug/L		39	19 - 79
Pyrene	50.4	43.2		ug/L		86	65 - 115
Pyridine	50.0	22.4		ug/L		45	23 - 64
1,2,4,5-Tetrachlorobenzene	50.0	44.2		ug/L		88	40 - 102
1,2,4-Trichlorobenzene	50.0	40.7		ug/L		81	34 - 106

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-43630/2-A
Matrix: Water
Analysis Batch: 44209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43630

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-Trichlorophenol			50.2	38.5		ug/L		77	66 - 118		
2,4,6-Trichlorophenol			50.1	38.8		ug/L		77	69 - 117		
2,2'-oxybis[1-chloropropane]			50.2	41.3		ug/L		82	48 - 105		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*44 - 102*
2-Fluorophenol (Surr)	*42*		*10 - 84*
Nitrobenzene-d5 (Surr)	*89*		*38 - 113*
Phenol-d5 (Surr)	*35*		*10 - 67*
p-Terphenyl-d14 (Surr)	*76*		*34 - 128*
2,4,6-Tribromophenol (Surr)	*80*		*18 - 141*

Lab Sample ID: LCSD 410-43630/4-A
Matrix: Water
Analysis Batch: 44209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43630

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene			50.0	45.7		ug/L		91	59 - 135	8	30
2,6-Dichlorophenol			50.2	34.9		ug/L		70	50 - 113	6	30
Hexachloropropene			50.0	26.5		ug/L		53	10 - 92	10	30
Isosafrole			50.3	42.4		ug/L		84	62 - 129	14	30
Methapyrilene			400	109	*	ug/L		27	70 - 130	10	30
3-Methylcholanthrene			50.3	45.8		ug/L		91	69 - 162	9	30
5-Nitro-o-toluidine			50.1	40.0		ug/L		80	57 - 109	6	30
N-Nitrosodiethylamine			50.2	42.5		ug/L		85	63 - 106	14	30
N-Nitrosodi-n-butylamine			50.4	43.0		ug/L		85	49 - 104	7	30
N-Nitrosopiperidine			50.1	43.1		ug/L		86	68 - 110	11	30
N-Nitrosopyrrolidine			50.3	38.6		ug/L		77	65 - 115	7	30
Pentachlorobenzene			50.2	40.9		ug/L		82	36 - 109	17	30
Pentachloronitrobenzene			50.0	43.1		ug/L		86	60 - 112	15	30
Phenacetin			50.3	43.6		ug/L		87	67 - 128	4	30
Pronamide			50.1	47.4		ug/L		95	73 - 117	8	30
Safrole, Total			50.2	41.0		ug/L		82	62 - 104	12	30
4,4'-Methylene bis(2-chloroaniline)			50.1	ND		ug/L		74	36 - 109	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*44 - 102*
2-Fluorophenol (Surr)	*39*		*10 - 84*
Nitrobenzene-d5 (Surr)	*87*		*38 - 113*
Phenol-d5 (Surr)	*31*		*10 - 67*
p-Terphenyl-d14 (Surr)	*73*		*34 - 128*
2,4,6-Tribromophenol (Surr)	*83*		*18 - 141*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-44329/1-A
Matrix: Water
Analysis Batch: 44841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
2-Acetylaminofluorene	ND		21	10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Aniline	ND		10	3.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Anthracene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Bis(2-chloroethoxy)methane	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Bis(2-chloroethyl)ether	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Bis(2-ethylhexyl) phthalate	ND		11	5.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
4-Bromophenyl-phenylether	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Butylbenzylphthalate	ND		5.0	2.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
4-Chloroaniline	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/16/20 09:30	09/17/20 11:44	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/16/20 09:30	09/17/20 11:44	1
2-Chlorophenol	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Chrysene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,4-Dichlorophenol	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,6-Dichlorophenol	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Diethyl phthalate	ND		5.0	2.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Dimethyl phthalate	ND		5.0	2.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Di-n-butyl phthalate	ND		5.0	2.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,4-Dinitrotoluene	ND		5.0	1.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,6-Dinitrotoluene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Di-n-octyl phthalate	ND		11	5.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Fluoranthene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Hexachlorobenzene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Hexachlorocyclopentadiene	ND		11	5.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Hexachloroethane	ND		5.0	1.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Hexachloropropene	ND		5.0	2.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Isosafrole	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Methapyrilene	ND		50	15	ug/L		09/16/20 09:30	09/17/20 11:44	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
2-Methylphenol	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
4-Methylphenol	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Naphthalene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
4-Nitroaniline	ND		3.0	0.90	ug/L		09/16/20 09:30	09/17/20 11:44	1
Nitrobenzene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
4-Nitrophenol	ND		30	10	ug/L		09/16/20 09:30	09/17/20 11:44	1
N-Nitrosodiethylamine	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-44329/1-A
Matrix: Water
Analysis Batch: 44841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/16/20 09:30	09/17/20 11:44	1
N-Nitrosodi-n-propylamine	ND		3.0	0.70	ug/L		09/16/20 09:30	09/17/20 11:44	1
N-Nitrosopiperidine	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
N-Nitrosopyrrolidine	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Pentachlorobenzene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Pentachloronitrobenzene	ND		5.0	2.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Pentachlorophenol	ND		5.0	1.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Phenacetin	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Phenanthrene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Phenol	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
Pronamide	ND		5.0	1.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Pyrene	ND		0.50	0.10	ug/L		09/16/20 09:30	09/17/20 11:44	1
Pyridine	ND		5.0	2.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
Safrole, Total	ND		5.0	2.0	ug/L		09/16/20 09:30	09/17/20 11:44	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	71	ug/L		09/16/20 09:30	09/17/20 11:44	1
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,4,6-Trichlorophenol	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.50	ug/L		09/16/20 09:30	09/17/20 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 102*	*09/16/20 09:30*	*09/17/20 11:44*	*1*
2-Fluorophenol (Surr)	*54*		*10 - 84*	*09/16/20 09:30*	*09/17/20 11:44*	*1*
Nitrobenzene-d5 (Surr)	*88*		*38 - 113*	*09/16/20 09:30*	*09/17/20 11:44*	*1*
Phenol-d5 (Surr)	*38*		*10 - 67*	*09/16/20 09:30*	*09/17/20 11:44*	*1*
p-Terphenyl-d14 (Surr)	*94*		*34 - 128*	*09/16/20 09:30*	*09/17/20 11:44*	*1*
2,4,6-Tribromophenol (Surr)	*96*		*18 - 141*	*09/16/20 09:30*	*09/17/20 11:44*	*1*

Lab Sample ID: LCS 410-44329/2-A
Matrix: Water
Analysis Batch: 44841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	50.1	47.8		ug/L		95	61 - 114
Aniline	50.0	26.9		ug/L		54	45 - 87
Anthracene	50.1	47.0		ug/L		94	67 - 116
Benzo[a]anthracene	50.0	52.1		ug/L		104	68 - 123
Benzo[a]pyrene	50.2	48.4		ug/L		97	71 - 117
Bis(2-chloroethoxy)methane	50.4	46.6		ug/L		93	63 - 116
Bis(2-chloroethyl)ether	50.3	43.4		ug/L		86	58 - 108
Bis(2-ethylhexyl) phthalate	50.3	51.6		ug/L		103	61 - 129
4-Bromophenyl-phenylether	50.3	45.5		ug/L		91	60 - 114
Butylbenzylphthalate	50.0	36.4		ug/L		73	40 - 133
4-Chloroaniline	50.0	38.1		ug/L		76	45 - 111
4-Chloro-3-methylphenol	50.0	49.3		ug/L		99	60 - 118
2-Chloronaphthalene	50.0	30.1		ug/L		60	51 - 107
2-Chlorophenol	50.2	44.3		ug/L		88	57 - 105

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-44329/2-A
Matrix: Water
Analysis Batch: 44841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	50.0	49.8		ug/L		100	65 - 121
Dibenz(a,h)anthracene	50.2	48.3		ug/L		96	63 - 128
1,2-Dichlorobenzene	50.0	28.1		ug/L		56	35 - 104
1,3-Dichlorobenzene	50.0	23.9		ug/L		48	28 - 103
1,4-Dichlorobenzene	50.0	25.5		ug/L		51	34 - 97
2,4-Dichlorophenol	50.1	47.9		ug/L		96	65 - 110
Diethyl phthalate	50.1	27.6		ug/L		55	41 - 126
2,4-Dimethylphenol	50.1	39.3		ug/L		78	53 - 93
Dimethyl phthalate	50.0	8.90		ug/L		18	10 - 134
Di-n-butyl phthalate	50.2	43.6		ug/L		87	58 - 125
2,4-Dinitrophenol	100	96.1		ug/L		96	44 - 134
2,4-Dinitrotoluene	50.3	48.1		ug/L		96	66 - 122
2,6-Dinitrotoluene	50.3	51.0		ug/L		101	71 - 120
Di-n-octyl phthalate	50.2	50.9		ug/L		101	60 - 136
Fluoranthene	50.1	49.8		ug/L		99	63 - 122
Hexachlorobenzene	50.1	48.3		ug/L		96	60 - 117
Hexachlorobutadiene	50.4	13.9		ug/L		28	20 - 108
Hexachlorocyclopentadiene	101	12.2		ug/L		12	10 - 91
Hexachloroethane	50.3	16.6		ug/L		33	23 - 95
Indeno[1,2,3-cd]pyrene	50.2	44.5		ug/L		89	59 - 123
2-Methylphenol	50.2	42.4		ug/L		84	53 - 107
4-Methylphenol	50.1	42.9		ug/L		86	49 - 108
Naphthalene	50.4	35.3		ug/L		70	51 - 102
4-Nitroaniline	50.1	40.8		ug/L		81	55 - 113
Nitrobenzene	50.2	46.2		ug/L		92	59 - 109
4-Nitrophenol	50.1	23.4	J	ug/L		47	23 - 89
N-Nitrosodi-n-propylamine	50.0	47.3		ug/L		95	58 - 120
Pentachlorophenol	50.4	55.1		ug/L		109	54 - 131
Phenanthrene	50.2	48.7		ug/L		97	65 - 113
Phenol	50.2	23.6		ug/L		47	19 - 79
Pyrene	50.4	46.9		ug/L		93	65 - 115
Pyridine	50.0	25.7		ug/L		51	23 - 64
1,2,4,5-Tetrachlorobenzene	50.0	20.7		ug/L		41	40 - 102
1,2,4-Trichlorobenzene	50.0	25.2		ug/L		50	34 - 106
2,4,5-Trichlorophenol	50.2	49.7		ug/L		99	66 - 118
2,4,6-Trichlorophenol	50.1	52.5		ug/L		105	69 - 117
2,2'-oxybis[1-chloropropane]	50.2	44.6		ug/L		89	48 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*44 - 102*
2-Fluorophenol (Surr)	*58*		*10 - 84*
Nitrobenzene-d5 (Surr)	*86*		*38 - 113*
Phenol-d5 (Surr)	*42*		*10 - 67*
p-Terphenyl-d14 (Surr)	*92*		*34 - 128*
2,4,6-Tribromophenol (Surr)	*98*		*18 - 141*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-44329/3-A
Matrix: Water
Analysis Batch: 44841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Acetylaminofluorene	50.0	49.1		ug/L		98	59 - 135
2,6-Dichlorophenol	50.2	45.7		ug/L		91	50 - 113
Hexachloropropene	50.0	6.62		ug/L		13	10 - 92
Isosafrole	50.3	43.3		ug/L		86	62 - 129
Methapyrilene	400	146	E *	ug/L		37	70 - 130
3-Methylcholanthrene	50.3	52.6		ug/L		105	69 - 162
5-Nitro-o-toluidine	50.1	46.7		ug/L		93	57 - 109
N-Nitrosodiethylamine	50.2	45.9		ug/L		91	63 - 106
N-Nitrosodi-n-butylamine	50.4	41.9		ug/L		83	49 - 104
N-Nitrosopiperidine	50.1	45.3		ug/L		90	68 - 110
N-Nitrosopyrrolidine	50.3	45.8		ug/L		91	65 - 115
Pentachlorobenzene	50.2	26.9		ug/L		54	36 - 109
Pentachloronitrobenzene	50.0	43.8		ug/L		87	60 - 112
Phenacetin	50.3	50.9		ug/L		101	67 - 128
Pronamide	50.1	50.1		ug/L		100	73 - 117
Safrole, Total	50.2	41.4		ug/L		83	62 - 104
4,4'-Methylene bis(2-chloroaniline)	50.1	ND		ug/L		71	36 - 109

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*0.02*	*X*	*44 - 102*
2-Fluorophenol (Surr)	*0.03*	*X*	*10 - 84*
Nitrobenzene-d5 (Surr)	*0.02*	*X*	*38 - 113*
Phenol-d5 (Surr)	*0.02*	*X*	*10 - 67*
p-Terphenyl-d14 (Surr)	*0.04*	*X*	*34 - 128*
2,4,6-Tribromophenol (Surr)	*0.09*	*X*	*18 - 141*

Lab Sample ID: LCSD 410-44329/4-A
Matrix: Water
Analysis Batch: 44841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44329

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene	50.0	43.8		ug/L		88	59 - 135	11	30
2,6-Dichlorophenol	50.2	42.4		ug/L		84	50 - 113	7	30
Hexachloropropene	50.0	12.4	*1	ug/L		25	10 - 92	61	30
Isosafrole	50.3	39.0		ug/L		77	62 - 129	11	30
Methapyrilene	400	182	E *	ug/L		45	70 - 130	22	30
3-Methylcholanthrene	50.3	46.5		ug/L		92	69 - 162	12	30
5-Nitro-o-toluidine	50.1	44.0		ug/L		88	57 - 109	6	30
N-Nitrosodiethylamine	50.2	42.7		ug/L		85	63 - 106	7	30
N-Nitrosodi-n-butylamine	50.4	37.9		ug/L		75	49 - 104	10	30
N-Nitrosopiperidine	50.1	41.9		ug/L		84	68 - 110	8	30
N-Nitrosopyrrolidine	50.3	44.2		ug/L		88	65 - 115	4	30
Pentachlorobenzene	50.2	33.7		ug/L		67	36 - 109	23	30
Pentachloronitrobenzene	50.0	38.5		ug/L		77	60 - 112	13	30
Phenacetin	50.3	46.7		ug/L		93	67 - 128	9	30
Pronamide	50.1	43.6		ug/L		87	73 - 117	14	30
Safrole, Total	50.2	37.7		ug/L		75	62 - 104	9	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-44329/4-A
Matrix: Water
Analysis Batch: 44841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-Methylene bis(2-chloroaniline)			50.1	ND		ug/L		62	36 - 109	14	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*44 - 102*
2-Fluorophenol (Surr)	*53*		*10 - 84*
Nitrobenzene-d5 (Surr)	*74*		*38 - 113*
Phenol-d5 (Surr)	*40*		*10 - 67*
p-Terphenyl-d14 (Surr)	*71*		*34 - 128*
2,4,6-Tribromophenol (Surr)	*84*		*18 - 141*

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 44841

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 44329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	ND		50.5	47.6		ug/L		94	61 - 114
Aniline	ND	F1	50.4	19.5	F1	ug/L		39	45 - 87
Anthracene	ND		50.5	46.7		ug/L		92	67 - 116
Benzo[a]anthracene	ND		50.4	52.0		ug/L		103	68 - 123
Benzo[a]pyrene	ND		50.6	49.7		ug/L		98	71 - 117
Bis(2-chloroethoxy)methane	ND		50.8	45.4		ug/L		89	63 - 116
Bis(2-chloroethyl)ether	ND		50.7	42.2		ug/L		83	58 - 108
Bis(2-ethylhexyl) phthalate	ND		50.7	52.5		ug/L		103	61 - 129
4-Bromophenyl-phenylether	ND		50.7	49.2		ug/L		97	60 - 114
Butylbenzylphthalate	ND		50.4	35.7		ug/L		71	40 - 133
4-Chloroaniline	ND		50.4	30.5		ug/L		60	45 - 111
4-Chloro-3-methylphenol	ND		50.4	49.2		ug/L		98	60 - 118
2-Chloronaphthalene	ND		50.4	39.3		ug/L		78	51 - 107
2-Chlorophenol	ND		50.6	43.1		ug/L		85	57 - 105
Chrysene	ND		50.4	49.7		ug/L		99	65 - 121
Dibenz(a,h)anthracene	ND		50.6	48.8		ug/L		96	63 - 128
1,2-Dichlorobenzene	ND		50.4	30.0		ug/L		59	35 - 104
1,3-Dichlorobenzene	ND		50.4	25.7		ug/L		51	28 - 103
1,4-Dichlorobenzene	ND		50.4	27.2		ug/L		54	34 - 97
2,4-Dichlorophenol	ND		50.5	46.3		ug/L		92	65 - 110
Diethyl phthalate	ND		50.5	21.5		ug/L		43	41 - 126
2,4-Dimethylphenol	ND		50.5	34.0		ug/L		67	53 - 93
Dimethyl phthalate	ND	F1	50.4	4.60	J F1	ug/L		9	10 - 134
Di-n-butyl phthalate	ND		50.6	40.6		ug/L		80	58 - 125
2,4-Dinitrophenol	ND		101	98.7		ug/L		98	44 - 134
2,4-Dinitrotoluene	ND		50.7	48.2		ug/L		95	66 - 122
2,6-Dinitrotoluene	ND		50.7	50.0		ug/L		99	71 - 120
Di-n-octyl phthalate	ND		50.6	51.6		ug/L		102	60 - 136
Fluoranthene	ND		50.5	48.7		ug/L		96	63 - 122
Hexachlorobenzene	ND		50.5	46.7		ug/L		93	60 - 117
Hexachlorobutadiene	ND		50.8	16.9		ug/L		33	20 - 108
Hexachlorocyclopentadiene	ND		101	22.7		ug/L		22	10 - 91
Hexachloroethane	ND		50.7	18.5		ug/L		37	23 - 95

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 44841

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 44329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Indeno[1,2,3-cd]pyrene	ND		50.6	46.6		ug/L		92	59 - 123
2-Methylphenol	ND		50.6	40.9		ug/L		81	53 - 107
4-Methylphenol	ND		50.5	40.8		ug/L		81	49 - 108
Naphthalene	ND		50.8	38.1		ug/L		75	51 - 102
4-Nitroaniline	ND	F1	50.5	41.0		ug/L		81	55 - 113
Nitrobenzene	ND		50.6	45.6		ug/L		90	59 - 109
4-Nitrophenol	ND		50.5	25.0	J	ug/L		50	23 - 89
N-Nitrosodi-n-propylamine	ND		50.4	47.1		ug/L		93	58 - 120
Pentachlorophenol	ND		50.8	47.8		ug/L		94	54 - 131
Phenanthrene	ND		50.6	47.8		ug/L		95	65 - 113
Phenol	ND		50.6	22.8		ug/L		45	19 - 79
Pyrene	ND		50.8	46.7		ug/L		92	65 - 115
Pyridine	ND		50.4	17.2		ug/L		34	23 - 64
1,2,4,5-Tetrachlorobenzene	ND		50.4	31.8		ug/L		63	40 - 102
1,2,4-Trichlorobenzene	ND		50.4	28.7		ug/L		57	34 - 106
2,4,5-Trichlorophenol	ND		50.7	51.0		ug/L		101	66 - 118
2,4,6-Trichlorophenol	ND		50.5	52.1		ug/L		103	69 - 117
2,2'-oxybis[1-chloropropane]	ND		50.6	44.3		ug/L		87	48 - 105

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*44 - 102*
2-Fluorophenol (Surr)	*56*		*10 - 84*
Nitrobenzene-d5 (Surr)	*84*		*38 - 113*
Phenol-d5 (Surr)	*41*		*10 - 67*
p-Terphenyl-d14 (Surr)	*88*		*34 - 128*
2,4,6-Tribromophenol (Surr)	*97*		*18 - 141*

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 44841

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 44329

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetophenone	ND		50.5	43.1		ug/L		85	61 - 114	10	30
Aniline	ND	F1	50.4	21.5	F1	ug/L		43	45 - 87	9	30
Anthracene	ND		50.5	47.5		ug/L		94	67 - 116	2	30
Benzo[a]anthracene	ND		50.4	52.5		ug/L		104	68 - 123	1	30
Benzo[a]pyrene	ND		50.6	49.9		ug/L		99	71 - 117	0	30
Bis(2-chloroethoxy)methane	ND		50.8	45.2		ug/L		89	63 - 116	0	30
Bis(2-chloroethyl)ether	ND		50.7	38.7		ug/L		76	58 - 108	9	30
Bis(2-ethylhexyl) phthalate	ND		50.7	51.6		ug/L		102	61 - 129	2	30
4-Bromophenyl-phenylether	ND		50.7	48.5		ug/L		96	60 - 114	1	30
Butylbenzylphthalate	ND		50.4	35.4		ug/L		70	40 - 133	1	30
4-Chloroaniline	ND		50.4	35.6		ug/L		71	45 - 111	16	30
4-Chloro-3-methylphenol	ND		50.4	50.7		ug/L		101	60 - 118	3	30
2-Chloronaphthalene	ND		50.4	39.5		ug/L		78	51 - 107	0	30
2-Chlorophenol	ND		50.6	38.3		ug/L		76	57 - 105	12	30
Chrysene	ND		50.4	49.5		ug/L		98	65 - 121	0	30
Dibenz(a,h)anthracene	ND		50.6	48.4		ug/L		96	63 - 128	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 44841

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 44329

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		50.4	27.8		ug/L		55	35 - 104	8	30
1,3-Dichlorobenzene	ND		50.4	24.1		ug/L		48	28 - 103	7	30
1,4-Dichlorobenzene	ND		50.4	25.8		ug/L		51	34 - 97	5	30
2,4-Dichlorophenol	ND		50.5	46.7		ug/L		92	65 - 110	1	30
Diethyl phthalate	ND		50.5	23.5		ug/L		47	41 - 126	9	30
2,4-Dimethylphenol	ND		50.5	35.2		ug/L		70	53 - 93	3	30
Dimethyl phthalate	ND	F1	50.4	4.92	J	ug/L		10	10 - 134	7	30
Di-n-butyl phthalate	ND		50.6	41.9		ug/L		83	58 - 125	3	30
2,4-Dinitrophenol	ND		101	96.5		ug/L		95	44 - 134	2	30
2,4-Dinitrotoluene	ND		50.7	48.6		ug/L		96	66 - 122	1	30
2,6-Dinitrotoluene	ND		50.7	50.2		ug/L		99	71 - 120	0	30
Di-n-octyl phthalate	ND		50.6	51.3		ug/L		101	60 - 136	1	30
Fluoranthene	ND		50.5	48.9		ug/L		97	63 - 122	0	30
Hexachlorobenzene	ND		50.5	47.8		ug/L		95	60 - 117	2	30
Hexachlorobutadiene	ND		50.8	18.3		ug/L		36	20 - 108	8	30
Hexachlorocyclopentadiene	ND		101	21.8		ug/L		22	10 - 91	4	30
Hexachloroethane	ND		50.7	17.7		ug/L		35	23 - 95	4	30
Indeno[1,2,3-cd]pyrene	ND		50.6	46.2		ug/L		91	59 - 123	1	30
2-Methylphenol	ND		50.6	37.5		ug/L		74	53 - 107	9	30
4-Methylphenol	ND		50.5	37.3		ug/L		74	49 - 108	9	30
Naphthalene	ND		50.8	37.9		ug/L		75	51 - 102	1	30
4-Nitroaniline	ND	F1	50.5	ND	F1	ug/L		0	55 - 113	NC	30
Nitrobenzene	ND		50.6	44.4		ug/L		88	59 - 109	3	30
4-Nitrophenol	ND		50.5	23.9	J	ug/L		47	23 - 89	5	30
N-Nitrosodi-n-propylamine	ND		50.4	44.2		ug/L		88	58 - 120	6	30
Pentachlorophenol	ND		50.8	49.3		ug/L		97	54 - 131	3	30
Phenanthrene	ND		50.6	48.2		ug/L		95	65 - 113	1	30
Phenol	ND		50.6	19.8		ug/L		39	19 - 79	14	30
Pyrene	ND		50.8	46.9		ug/L		92	65 - 115	0	30
Pyridine	ND		50.4	18.6		ug/L		37	23 - 64	8	30
1,2,4,5-Tetrachlorobenzene	ND		50.4	33.6		ug/L		67	40 - 102	6	30
1,2,4-Trichlorobenzene	ND		50.4	29.6		ug/L		59	34 - 106	3	30
2,4,5-Trichlorophenol	ND		50.7	48.8		ug/L		96	66 - 118	4	30
2,4,6-Trichlorophenol	ND		50.5	52.0		ug/L		103	69 - 117	0	30
2,2'-oxybis[1-chloropropane]	ND		50.6	40.5		ug/L		80	48 - 105	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*80*		*44 - 102*
2-Fluorophenol (Surr)	*46*		*10 - 84*
Nitrobenzene-d5 (Surr)	*80*		*38 - 113*
Phenol-d5 (Surr)	*35*		*10 - 67*
p-Terphenyl-d14 (Surr)	*90*		*34 - 128*
2,4,6-Tribromophenol (Surr)	*95*		*18 - 141*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 410-46046/1-A
Matrix: Water
Analysis Batch: 46045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/21/20 13:10	09/21/20 17:37	1
Isobutanol (1C)	ND		1000	150	ug/L		09/21/20 13:10	09/21/20 17:37	1
Methanol (2C)	ND		1000	220	ug/L		09/21/20 13:10	09/21/20 17:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*96*		*58 - 149*	*09/21/20 13:10*	*09/21/20 17:37*	*1*
Acetone (2C)	*105*		*58 - 149*	*09/21/20 13:10*	*09/21/20 17:37*	*1*

Lab Sample ID: LCS 410-46046/2-A
Matrix: Water
Analysis Batch: 46045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46046

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1-Butanol (1C)			2650	3030		ug/L		114	82 - 115		
Isobutanol (1C)			2790	2980		ug/L		107	66 - 120		
Methanol (2C)			2510	2610		ug/L		104	79 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Acetone (1C)	*101*		*58 - 149*
Acetone (2C)	*101*		*58 - 149*

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 46045

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 46046

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1-Butanol (1C)	ND		2650	2820		ug/L		106	82 - 115		
Isobutanol (1C)	ND		2790	2900		ug/L		104	66 - 120		
Methanol (2C)	ND		2510	2560		ug/L		102	79 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Acetone (1C)	*102*		*58 - 149*
Acetone (2C)	*99*		*58 - 149*

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 46045

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 46046

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Butanol (1C)	ND		2650	2670		ug/L		101	82 - 115	6	30
Isobutanol (1C)	ND		2790	2680		ug/L		96	66 - 120	8	30
Methanol (2C)	ND		2510	2360		ug/L		94	79 - 120	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Acetone (1C)	*98*		*58 - 149*
Acetone (2C)	*96*		*58 - 149*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 410-43860/1-A
Matrix: Water
Analysis Batch: 44215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43860

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.020	0.0030	ug/L		09/15/20 09:00	09/15/20 22:09	1
alpha-Chlordane (1C)	ND		0.020	0.0030	ug/L		09/15/20 09:00	09/15/20 22:09	1
beta-BHC (1C)	ND		0.020	0.0034	ug/L		09/15/20 09:00	09/15/20 22:09	1
delta-BHC (1C)	ND		0.020	0.0034	ug/L		09/15/20 09:00	09/15/20 22:09	1
Endosulfan I (1C)	ND		0.020	0.0043	ug/L		09/15/20 09:00	09/15/20 22:09	1
Endosulfan II (1C)	ND		0.040	0.015	ug/L		09/15/20 09:00	09/15/20 22:09	1
Endosulfan sulfate (1C)	ND		0.030	0.0058	ug/L		09/15/20 09:00	09/15/20 22:09	1
Endrin (1C)	ND		0.030	0.0081	ug/L		09/15/20 09:00	09/15/20 22:09	1
gamma-BHC (Lindane) (1C)	ND		0.020	0.0020	ug/L		09/15/20 09:00	09/15/20 22:09	1
gamma-Chlordane (1C)	ND		0.040	0.0070	ug/L		09/15/20 09:00	09/15/20 22:09	1
Heptachlor (1C)	ND		0.020	0.0020	ug/L		09/15/20 09:00	09/15/20 22:09	1
Heptachlor epoxide (1C)	ND		0.020	0.0023	ug/L		09/15/20 09:00	09/15/20 22:09	1
Methoxychlor (1C)	ND		0.11	0.030	ug/L		09/15/20 09:00	09/15/20 22:09	1
Toxaphene (1C)	ND		1.0	0.30	ug/L		09/15/20 09:00	09/15/20 22:09	1
p,p'-DDD (1C)	ND		0.030	0.0050	ug/L		09/15/20 09:00	09/15/20 22:09	1
p,p'-DDE (1C)	ND		0.030	0.0050	ug/L		09/15/20 09:00	09/15/20 22:09	1
p,p'-DDT (2C)	ND		0.030	0.0052	ug/L		09/15/20 09:00	09/15/20 22:09	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.16	ug/L		09/15/20 09:00	09/15/20 22:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*57*		*32 - 149*	*09/15/20 09:00*	*09/15/20 22:09*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*63*		*32 - 149*	*09/15/20 09:00*	*09/15/20 22:09*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*58*		*29 - 129*	*09/15/20 09:00*	*09/15/20 22:09*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*68*		*29 - 129*	*09/15/20 09:00*	*09/15/20 22:09*	*1*

Lab Sample ID: LCS 410-43860/2-A
Matrix: Water
Analysis Batch: 44215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43860

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (2C)	0.101	0.0751		ug/L		74	47 - 132
alpha-Chlordane (2C)	0.100	0.0644		ug/L		64	28 - 136
beta-BHC (1C)	0.100	0.0759		ug/L		76	27 - 143
delta-BHC (2C)	0.101	0.0769		ug/L		76	28 - 141
Endosulfan I (2C)	0.101	0.0745		ug/L		74	40 - 138
Endosulfan II (2C)	0.200	0.161		ug/L		80	27 - 138
Endosulfan sulfate (2C)	0.201	0.163		ug/L		81	41 - 133
Endrin (2C)	0.201	0.149		ug/L		74	35 - 143
gamma-BHC (Lindane) (2C)	0.100	0.0744		ug/L		74	29 - 136
gamma-Chlordane (2C)	0.100	0.0665		ug/L		67	53 - 130
Heptachlor (2C)	0.101	0.0465		ug/L		46	38 - 135
Heptachlor epoxide (2C)	0.100	0.0722		ug/L		72	28 - 146
Methoxychlor (2C)	1.01	0.871		ug/L		86	39 - 143
p,p'-DDD (2C)	0.201	0.161		ug/L		80	42 - 148
p,p'-DDE (2C)	0.201	0.125		ug/L		62	22 - 138
p,p'-DDT (2C)	0.201	0.175		ug/L		87	40 - 145

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 410-43860/2-A
Matrix: Water
Analysis Batch: 44215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43860

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	73		32 - 149
DCB Decachlorobiphenyl (Surr) (2C)	80		32 - 149
Tetrachloro-m-xylene (Surr) (1C)	46		29 - 129
Tetrachloro-m-xylene (Surr) (2C)	54		29 - 129

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 44215

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43860

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (2C)	ND		0.102	0.0875		ug/L		85	47 - 132
alpha-Chlordane (2C)	ND		0.101	0.0244	F1 p	ug/L		24	28 - 136
beta-BHC (2C)	ND		0.101	0.0947		ug/L		94	27 - 143
delta-BHC (2C)	ND		0.102	0.0950		ug/L		93	28 - 141
Endosulfan I (2C)	ND		0.102	0.0810		ug/L		79	40 - 138
Endosulfan II (2C)	ND		0.202	0.182		ug/L		90	27 - 138
Endosulfan sulfate (1C)	ND		0.204	0.164		ug/L		81	41 - 133
Endrin (2C)	ND		0.204	0.173		ug/L		85	35 - 143
gamma-BHC (Lindane) (2C)	ND		0.101	0.0919		ug/L		91	29 - 136
gamma-Chlordane (2C)	ND	F1	0.101	0.0899		ug/L		89	53 - 130
Heptachlor (2C)	ND		0.102	0.0639		ug/L		62	38 - 135
Heptachlor epoxide (2C)	ND		0.101	0.0881		ug/L		87	28 - 146
Methoxychlor (2C)	ND		1.02	0.996		ug/L		98	39 - 143
p,p'-DDD (1C)	ND		0.204	0.182		ug/L		89	42 - 148
p,p'-DDE (1C)	ND		0.204	0.161		ug/L		79	22 - 138
p,p'-DDT (2C)	ND		0.204	0.197		ug/L		97	40 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	52		32 - 149
DCB Decachlorobiphenyl (Surr) (2C)	56		32 - 149
Tetrachloro-m-xylene (Surr) (1C)	53		29 - 129
Tetrachloro-m-xylene (Surr) (2C)	59		29 - 129

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 44215

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43860

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC (2C)	ND		0.102	0.102		ug/L		100	47 - 132	16	30
alpha-Chlordane (2C)	ND		0.101	0.0270	p F1	ug/L		27	28 - 136	10	30
beta-BHC (1C)	ND		0.101	0.114		ug/L		113	27 - 143	18	30
delta-BHC (2C)	ND		0.102	0.106		ug/L		104	28 - 141	11	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 44215

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43860

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan I (2C)	ND		0.102	0.0939		ug/L		92	40 - 138	15	30
Endosulfan II (2C)	ND		0.202	0.203		ug/L		101	27 - 138	11	30
Endosulfan sulfate (1C)	ND		0.203	0.196		ug/L		97	41 - 133	18	30
Endrin (2C)	ND		0.203	0.209		ug/L		103	35 - 143	19	30
gamma-BHC (Lindane) (2C)	ND		0.101	0.106		ug/L		105	29 - 136	14	30
gamma-Chlordane (2C)	ND	F1	0.101	0.0972		ug/L		96	53 - 130	8	30
Heptachlor (2C)	ND		0.102	0.0701		ug/L		69	38 - 135	9	30
Heptachlor epoxide (2C)	ND		0.101	0.101		ug/L		100	28 - 146	14	30
Methoxychlor (2C)	ND		1.02	1.17		ug/L		115	39 - 143	16	30
p,p'-DDD (1C)	ND		0.203	0.219		ug/L		108	42 - 148	19	30
p,p'-DDE (1C)	ND		0.203	0.174		ug/L		86	22 - 138	8	30
p,p'-DDT (2C)	ND		0.203	0.222		ug/L		109	40 - 145	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*51*		*32 - 149*
DCB Decachlorobiphenyl (Surr) (2C)	*55*		*32 - 149*
Tetrachloro-m-xylene (Surr) (1C)	*64*		*29 - 129*
Tetrachloro-m-xylene (Surr) (2C)	*66*		*29 - 129*

Lab Sample ID: MB 410-44820/1-A
Matrix: Water
Analysis Batch: 45077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.020	0.0030	ug/L		09/17/20 09:00	09/17/20 19:25	1
alpha-Chlordane (1C)	ND		0.020	0.0030	ug/L		09/17/20 09:00	09/17/20 19:25	1
beta-BHC (1C)	ND		0.020	0.0034	ug/L		09/17/20 09:00	09/17/20 19:25	1
delta-BHC (1C)	ND		0.020	0.0034	ug/L		09/17/20 09:00	09/17/20 19:25	1
Endosulfan I (1C)	ND		0.020	0.0043	ug/L		09/17/20 09:00	09/17/20 19:25	1
Endosulfan II (1C)	ND		0.040	0.015	ug/L		09/17/20 09:00	09/17/20 19:25	1
Endosulfan sulfate (1C)	ND		0.030	0.0058	ug/L		09/17/20 09:00	09/17/20 19:25	1
Endrin (1C)	ND		0.030	0.0081	ug/L		09/17/20 09:00	09/17/20 19:25	1
gamma-BHC (Lindane) (1C)	ND		0.020	0.0020	ug/L		09/17/20 09:00	09/17/20 19:25	1
gamma-Chlordane (1C)	ND		0.040	0.0070	ug/L		09/17/20 09:00	09/17/20 19:25	1
Heptachlor (1C)	ND		0.020	0.0020	ug/L		09/17/20 09:00	09/17/20 19:25	1
Heptachlor epoxide (1C)	ND		0.020	0.0023	ug/L		09/17/20 09:00	09/17/20 19:25	1
Methoxychlor (1C)	ND		0.11	0.030	ug/L		09/17/20 09:00	09/17/20 19:25	1
Toxaphene (1C)	ND		1.0	0.30	ug/L		09/17/20 09:00	09/17/20 19:25	1
p,p'-DDD (1C)	ND		0.030	0.0050	ug/L		09/17/20 09:00	09/17/20 19:25	1
p,p'-DDE (1C)	ND		0.030	0.0050	ug/L		09/17/20 09:00	09/17/20 19:25	1
p,p'-DDT (2C)	ND		0.030	0.0052	ug/L		09/17/20 09:00	09/17/20 19:25	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.16	ug/L		09/17/20 09:00	09/17/20 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*67*		*32 - 149*	*09/17/20 09:00*	*09/17/20 19:25*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 410-44820/1-A
Matrix: Water
Analysis Batch: 45077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44820

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (2C)	76		32 - 149	09/17/20 09:00	09/17/20 19:25	1
Tetrachloro-m-xylene (Surr) (1C)	61		29 - 129	09/17/20 09:00	09/17/20 19:25	1
Tetrachloro-m-xylene (Surr) (2C)	69		29 - 129	09/17/20 09:00	09/17/20 19:25	1

Lab Sample ID: LCS 410-44820/2-A
Matrix: Water
Analysis Batch: 45077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (2C)	0.101	0.105		ug/L		104	47 - 132
alpha-Chlordane (2C)	0.100	0.102		ug/L		102	28 - 136
beta-BHC (1C)	0.100	0.103		ug/L		103	27 - 143
delta-BHC (2C)	0.101	0.102		ug/L		101	28 - 141
Endosulfan I (2C)	0.101	0.106		ug/L		104	40 - 138
Endosulfan II (2C)	0.200	0.211		ug/L		105	27 - 138
Endosulfan sulfate (2C)	0.201	0.212		ug/L		105	41 - 133
Endrin (2C)	0.201	0.202		ug/L		100	35 - 143
gamma-BHC (Lindane) (2C)	0.100	0.105		ug/L		105	29 - 136
gamma-Chlordane (2C)	0.100	0.111		ug/L		111	53 - 130
Heptachlor (2C)	0.101	0.0813		ug/L		80	38 - 135
Heptachlor epoxide (2C)	0.100	0.103		ug/L		103	28 - 146
Methoxychlor (2C)	1.01	1.02		ug/L		101	39 - 143
p,p'-DDD (2C)	0.201	0.217		ug/L		108	42 - 148
p,p'-DDE (2C)	0.201	0.199		ug/L		99	22 - 138
p,p'-DDT (2C)	0.201	0.213		ug/L		106	40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	51		32 - 149
DCB Decachlorobiphenyl (Surr) (2C)	61		32 - 149
Tetrachloro-m-xylene (Surr) (1C)	72		29 - 129
Tetrachloro-m-xylene (Surr) (2C)	82		29 - 129

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-43788/1-A
Matrix: Water
Analysis Batch: 43820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		0.050	0.010	ug/L		09/15/20 00:30	09/17/20 18:03	1
2,4-D (1C)	ND		0.60	0.25	ug/L		09/15/20 00:30	09/17/20 18:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	51		34 - 142	09/15/20 00:30	09/17/20 18:03	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 410-43788/2-A
Matrix: Water
Analysis Batch: 43820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43788

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP) (1C)			0.250	0.191	*	ug/L		76	81 - 137		
2,4-D (1C)			2.51	1.65	*	ug/L		66	70 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*67*		*34 - 142*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*63*		*34 - 142*

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 43820

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP) (1C)	ND	F1 *	0.238	0.196		ug/L		82	81 - 137		
2,4-D (1C)	ND	*	2.39	1.73		ug/L		72	70 - 134		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*68*		*34 - 142*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*67*		*34 - 142*

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 43820

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP) (1C)	ND	F1 *	0.262	0.218		ug/L		83	81 - 137	11	30
2,4-D (1C)	ND	*	2.62	1.84		ug/L		70	70 - 134	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*64*		*34 - 142*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*66*		*34 - 142*

Method: 531.1 - Carbamate Pesticides (HPLC)

Lab Sample ID: MB 410-44699/1-A
Matrix: Water
Analysis Batch: 46155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/17/20 08:27	1
Carbofuran	ND		2.0	0.80	ug/L		09/16/20 21:42	09/17/20 08:27	1
Methiocarb	ND		2.0	1.0	ug/L		09/16/20 21:42	09/17/20 08:27	1
Methomyl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/17/20 08:27	1
Oxamyl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/17/20 08:27	1

Method: 531.1 - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: MB 410-44699/1-A
Matrix: Water
Analysis Batch: 46155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44699

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	92		80 - 120	09/16/20 21:42	09/17/20 08:27	1

Lab Sample ID: MB 410-44699/1-A
Matrix: Water
Analysis Batch: 46196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 06:15	1
Carbofuran	ND		2.0	0.80	ug/L		09/16/20 21:42	09/22/20 06:15	1
Methiocarb	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 06:15	1
Methomyl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 06:15	1
Oxamyl	ND		2.0	1.0	ug/L		09/16/20 21:42	09/22/20 06:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	94		80 - 120	09/16/20 21:42	09/22/20 06:15	1

Lab Sample ID: LCS 410-44699/2-A
Matrix: Water
Analysis Batch: 46155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	2.00	2.10		ug/L		105	80 - 120
Carbofuran	2.00	2.02		ug/L		101	80 - 120
Methiocarb	2.00	2.69	*	ug/L		134	80 - 120
Methomyl	2.00	2.18		ug/L		109	80 - 120
Oxamyl	2.00	1.95	J	ug/L		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	94		80 - 120

Lab Sample ID: LCS 410-44699/2-A
Matrix: Water
Analysis Batch: 46196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	2.00	1.89	J	ug/L		94	80 - 120
Carbofuran	2.00	2.41		ug/L		120	80 - 120
Methiocarb	2.00	1.89	J	ug/L		94	80 - 120
Methomyl	2.00	2.42	*	ug/L		121	80 - 120
Oxamyl	2.00	2.32		ug/L		116	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	97		80 - 120

Method: 531.1 - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 46155

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 44699

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	94		80 - 120

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 46196

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 44699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	ND		2.00	2.27		ug/L		113	80 - 120
Carbofuran	ND		2.00	1.98	J	ug/L		99	80 - 120
Methiocarb	1.4	J F1	2.00	2.70	F1	ug/L		63	80 - 120
Methomyl	ND	*	2.00	2.30		ug/L		115	80 - 120
Oxamyl	ND	F1	2.00	2.42	F1	ug/L		121	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	96		80 - 120

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 46155

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 44699

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	93		80 - 120

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 46196

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 44699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbaryl	ND		2.00	2.16		ug/L		108	80 - 120	5	30
Carbofuran	ND		2.00	2.35		ug/L		117	80 - 120	17	30
Methiocarb	1.4	J F1	2.00	2.37	F1	ug/L		47	80 - 120	13	30
Methomyl	ND	*	2.00	2.27		ug/L		113	80 - 120	2	30
Oxamyl	ND	F1	2.00	2.30		ug/L		115	80 - 120	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	98		80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-43354/1-A
Matrix: Water
Analysis Batch: 45639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/14/20 03:15	09/19/20 09:42	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-43354/1-A
Matrix: Water
Analysis Batch: 45639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		2.0	0.75	ug/L		09/14/20 03:15	09/19/20 09:42	1
Cadmium	ND		0.50	0.15	ug/L		09/14/20 03:15	09/19/20 09:42	1
Chromium	ND		2.0	0.33	ug/L		09/14/20 03:15	09/19/20 09:42	1
Lead	ND		0.50	0.071	ug/L		09/14/20 03:15	09/19/20 09:42	1
Selenium	ND		1.0	0.28	ug/L		09/14/20 03:15	09/19/20 09:42	1
Silver	ND		0.50	0.17	ug/L		09/14/20 03:15	09/19/20 09:42	1
Calcium	ND		100	74	ug/L		09/14/20 03:15	09/19/20 09:42	1
Nickel	ND		1.0	0.60	ug/L		09/14/20 03:15	09/19/20 09:42	1

Lab Sample ID: LCS 410-43354/2-A
Matrix: Water
Analysis Batch: 45639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	60.0	64.5		ug/L		108	85 - 120
Barium	10.0	10.2		ug/L		102	80 - 120
Cadmium	9.96	10.3		ug/L		103	86 - 113
Chromium	30.0	31.2		ug/L		104	90 - 115
Lead	30.0	30.9		ug/L		103	90 - 115
Selenium	101	104		ug/L		103	80 - 120
Silver	20.0	20.6		ug/L		103	88 - 113
Calcium	400	431		ug/L		108	85 - 120
Nickel	2020	2120		ug/L		105	90 - 114

Lab Sample ID: MB 410-43355/1-A
Matrix: Water
Analysis Batch: 45736

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/14/20 03:18	09/19/20 17:20	1
Barium	ND		2.0	0.75	ug/L		09/14/20 03:18	09/19/20 17:20	1
Cadmium	ND		0.50	0.15	ug/L		09/14/20 03:18	09/19/20 17:20	1
Chromium	ND		2.0	0.33	ug/L		09/14/20 03:18	09/19/20 17:20	1
Lead	ND		0.50	0.071	ug/L		09/14/20 03:18	09/19/20 17:20	1
Selenium	ND		1.0	0.28	ug/L		09/14/20 03:18	09/19/20 17:20	1
Silver	ND		0.50	0.17	ug/L		09/14/20 03:18	09/19/20 17:20	1
Calcium	ND		100	74	ug/L		09/14/20 03:18	09/19/20 17:20	1

Lab Sample ID: LCS 410-43355/2-A
Matrix: Water
Analysis Batch: 45736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	60.0	62.9		ug/L		105	85 - 120
Barium	10.0	10.4		ug/L		104	80 - 120
Cadmium	9.96	10.2		ug/L		102	86 - 113
Chromium	30.0	30.0		ug/L		100	90 - 115
Lead	30.0	30.7		ug/L		102	90 - 115
Selenium	101	101		ug/L		101	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-43355/2-A
Matrix: Water
Analysis Batch: 45736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43355

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silver			20.0	20.3		ug/L		102	88 - 113		
Calcium			400	502	*	ug/L		125	85 - 120		
Nickel			2020	2110		ug/L		104	90 - 114		

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 45736

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		60.0	64.5		ug/L		107	75 - 125		
Barium	48		10.0	59.3	4	ug/L		114	75 - 125		
Cadmium	ND		9.96	10.1		ug/L		101	75 - 125		
Chromium	1.0	J	30.0	34.9		ug/L		113	75 - 125		
Lead	6.8		30.0	39.0		ug/L		107	75 - 125		
Selenium	ND		101	104		ug/L		103	75 - 125		
Silver	ND		20.0	20.1		ug/L		101	75 - 125		
Calcium	34000	*	400	33600	4	ug/L		-121	75 - 125		
Nickel	4.2	B	2020	2080		ug/L		103	75 - 125		

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 45736

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		60.0	66.6		ug/L		111	75 - 125	3	20
Barium	48		10.0	59.4	4	ug/L		114	75 - 125	0	20
Cadmium	ND		9.96	10.4		ug/L		105	75 - 125	3	20
Chromium	1.0	J	30.0	31.3		ug/L		101	75 - 125	11	20
Lead	6.8		30.0	38.1		ug/L		105	75 - 125	2	20
Selenium	ND		101	106		ug/L		105	75 - 125	2	20
Silver	ND		20.0	20.2		ug/L		101	75 - 125	1	20
Calcium	34000	*	400	33700	4	ug/L		-114	75 - 125	0	20
Nickel	4.2	B	2020	2160		ug/L		107	75 - 125	4	20

Lab Sample ID: 410-13613-2 DU
Matrix: Water
Analysis Batch: 45736

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43355

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND		ND		ug/L		NC	20
Barium	48		48.0		ug/L		0.2	20
Cadmium	ND		ND		ug/L		NC	20
Chromium	1.0	J	1.08	J	ug/L		4	20
Lead	6.8		6.91		ug/L		2	20
Selenium	ND		ND		ug/L		NC	20
Silver	ND		ND		ug/L		NC	20
Calcium	34000	*	34500	*	ug/L		1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-47414/2-A
Matrix: Water
Analysis Batch: 48116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	2020	1890		ug/L		94	90 - 114

Lab Sample ID: 410-13613-2 DU
Matrix: Water
Analysis Batch: 48799

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 47643

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	5.7		5.63		ug/L		2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-43494/1-A
Matrix: Water
Analysis Batch: 44177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/14/20 09:24	09/15/20 16:54	1

Lab Sample ID: LCS 410-43494/2-A
Matrix: Water
Analysis Batch: 44177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.06		ug/L		106	80 - 118

Lab Sample ID: MB 410-43503/1-A
Matrix: Water
Analysis Batch: 44177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/14/20 09:31	09/15/20 17:57	1

Lab Sample ID: LCS 410-43503/2-A
Matrix: Water
Analysis Batch: 44177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.01		ug/L		100	80 - 118

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 44177

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.05		ug/L		104	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 44177

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43503

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	1.04		ug/L		104	80 - 120	0	20

Lab Sample ID: 410-13613-2 DU
Matrix: Water
Analysis Batch: 44177

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43503

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND		ND		ug/L				NC	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 410-45013/2-A
Matrix: Water
Analysis Batch: 45643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		09/17/20 15:03	09/19/20 11:31	1

Lab Sample ID: LCS 410-45013/1-A
Matrix: Water
Analysis Batch: 45643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45013

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.200	0.202		mg/L		101	90 - 110		

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 45643

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 45013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.0057	J	0.200	0.187		mg/L		91	72 - 114		

Lab Sample ID: 410-13613-2 DU
Matrix: Water
Analysis Batch: 45643

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 45013

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.0057	J	0.00940	J F5	mg/L				49	20

GC/MS VOA

Analysis Batch: 46555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	8260C	
410-13613-2	PAD B	Total/NA	Water	8260C	
410-13613-3	PAD C	Total/NA	Water	8260C	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	8260C	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	8260C	
410-13613-6	Trip Blank	Total/NA	Water	8260C	
MB 410-46555/8	Method Blank	Total/NA	Water	8260C	
LCS 410-46555/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 410-46555/6	Lab Control Sample	Total/NA	Water	8260C	
410-13613-2 MS	PAD B	Total/NA	Water	8260C	
410-13613-2 MS	PAD B	Total/NA	Water	8260C	
410-13613-2 MSD	PAD B	Total/NA	Water	8260C	
410-13613-2 MSD	PAD B	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 43630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	3510C	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	3510C	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	3510C	
MB 410-43630/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-43630/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-43630/4-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 44209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-43630/1-A	Method Blank	Total/NA	Water	8270D	43630
LCS 410-43630/2-A	Lab Control Sample	Total/NA	Water	8270D	43630
LCSD 410-43630/4-A	Lab Control Sample Dup	Total/NA	Water	8270D	43630

Prep Batch: 44329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-2	PAD B	Total/NA	Water	3510C	
410-13613-3	PAD C	Total/NA	Water	3510C	
MB 410-44329/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-44329/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 410-44329/3-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-44329/4-A	Lab Control Sample Dup	Total/NA	Water	3510C	
410-13613-2 MS	PAD B	Total/NA	Water	3510C	
410-13613-2 MSD	PAD B	Total/NA	Water	3510C	

Analysis Batch: 44507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	8270D	43630
410-13613-4	FIELD DUPLICATE	Total/NA	Water	8270D	43630
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	8270D	43630

Analysis Batch: 44841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-2	PAD B	Total/NA	Water	8270D	44329

GC/MS Semi VOA (Continued)

Analysis Batch: 44841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-3	PAD C	Total/NA	Water	8270D	44329
MB 410-44329/1-A	Method Blank	Total/NA	Water	8270D	44329
LCS 410-44329/2-A	Lab Control Sample	Total/NA	Water	8270D	44329
LCS 410-44329/3-A	Lab Control Sample	Total/NA	Water	8270D	44329
LCSD 410-44329/4-A	Lab Control Sample Dup	Total/NA	Water	8270D	44329
410-13613-2 MS	PAD B	Total/NA	Water	8270D	44329
410-13613-2 MSD	PAD B	Total/NA	Water	8270D	44329

GC VOA

Analysis Batch: 46045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	8015B	46046
410-13613-2	PAD B	Total/NA	Water	8015B	46046
410-13613-3	PAD C	Total/NA	Water	8015B	46046
410-13613-4	FIELD DUPLICATE	Total/NA	Water	8015B	46046
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	8015B	46046
MB 410-46046/1-A	Method Blank	Total/NA	Water	8015B	46046
LCS 410-46046/2-A	Lab Control Sample	Total/NA	Water	8015B	46046
410-13613-2 MS	PAD B	Total/NA	Water	8015B	46046
410-13613-2 MSD	PAD B	Total/NA	Water	8015B	46046

Prep Batch: 46046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	8015 DAI	
410-13613-2	PAD B	Total/NA	Water	8015 DAI	
410-13613-3	PAD C	Total/NA	Water	8015 DAI	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	8015 DAI	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	8015 DAI	
MB 410-46046/1-A	Method Blank	Total/NA	Water	8015 DAI	
LCS 410-46046/2-A	Lab Control Sample	Total/NA	Water	8015 DAI	
410-13613-2 MS	PAD B	Total/NA	Water	8015 DAI	
410-13613-2 MSD	PAD B	Total/NA	Water	8015 DAI	

GC Semi VOA

Prep Batch: 43788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	8151A	
410-13613-2	PAD B	Total/NA	Water	8151A	
410-13613-3	PAD C	Total/NA	Water	8151A	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	8151A	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	8151A	
MB 410-43788/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-43788/2-A	Lab Control Sample	Total/NA	Water	8151A	
410-13613-2 MS	PAD B	Total/NA	Water	8151A	
410-13613-2 MSD	PAD B	Total/NA	Water	8151A	

Analysis Batch: 43820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	8151A	43788
410-13613-2	PAD B	Total/NA	Water	8151A	43788

GC Semi VOA (Continued)

Analysis Batch: 43820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-3	PAD C	Total/NA	Water	8151A	43788
410-13613-4	FIELD DUPLICATE	Total/NA	Water	8151A	43788
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	8151A	43788
MB 410-43788/1-A	Method Blank	Total/NA	Water	8151A	43788
LCS 410-43788/2-A	Lab Control Sample	Total/NA	Water	8151A	43788
410-13613-2 MS	PAD B	Total/NA	Water	8151A	43788
410-13613-2 MSD	PAD B	Total/NA	Water	8151A	43788

Prep Batch: 43860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	3510C	
410-13613-2	PAD B	Total/NA	Water	3510C	
410-13613-3	PAD C	Total/NA	Water	3510C	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	3510C	
MB 410-43860/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-43860/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-13613-2 MS	PAD B	Total/NA	Water	3510C	
410-13613-2 MSD	PAD B	Total/NA	Water	3510C	

Analysis Batch: 44215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	8081B	43860
410-13613-2	PAD B	Total/NA	Water	8081B	43860
410-13613-3	PAD C	Total/NA	Water	8081B	43860
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	8081B	43860
MB 410-43860/1-A	Method Blank	Total/NA	Water	8081B	43860
LCS 410-43860/2-A	Lab Control Sample	Total/NA	Water	8081B	43860
410-13613-2 MS	PAD B	Total/NA	Water	8081B	43860
410-13613-2 MSD	PAD B	Total/NA	Water	8081B	43860

Prep Batch: 44820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-4	FIELD DUPLICATE	Total/NA	Water	3510C	
MB 410-44820/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-44820/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 45077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-4	FIELD DUPLICATE	Total/NA	Water	8081B	44820
MB 410-44820/1-A	Method Blank	Total/NA	Water	8081B	44820
LCS 410-44820/2-A	Lab Control Sample	Total/NA	Water	8081B	44820

HPLC/IC

Prep Batch: 44699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	531	
410-13613-2	PAD B	Total/NA	Water	531	
410-13613-3	PAD C	Total/NA	Water	531	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	531	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	531	

HPLC/IC (Continued)

Prep Batch: 44699 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-44699/1-A	Method Blank	Total/NA	Water	531	
LCS 410-44699/2-A	Lab Control Sample	Total/NA	Water	531	
410-13613-2 MS	PAD B	Total/NA	Water	531	
410-13613-2 MSD	PAD B	Total/NA	Water	531	

Analysis Batch: 46155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-2	PAD B	Total/NA	Water	531.1	44699
410-13613-4	FIELD DUPLICATE	Total/NA	Water	531.1	44699
MB 410-44699/1-A	Method Blank	Total/NA	Water	531.1	44699
LCS 410-44699/2-A	Lab Control Sample	Total/NA	Water	531.1	44699
410-13613-2 MS	PAD B	Total/NA	Water	531.1	44699
410-13613-2 MSD	PAD B	Total/NA	Water	531.1	44699

Analysis Batch: 46196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	531.1	44699
410-13613-2	PAD B	Total/NA	Water	531.1	44699
410-13613-3	PAD C	Total/NA	Water	531.1	44699
410-13613-4	FIELD DUPLICATE	Total/NA	Water	531.1	44699
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	531.1	44699
MB 410-44699/1-A	Method Blank	Total/NA	Water	531.1	44699
LCS 410-44699/2-A	Lab Control Sample	Total/NA	Water	531.1	44699
410-13613-2 MS	PAD B	Total/NA	Water	531.1	44699
410-13613-2 MSD	PAD B	Total/NA	Water	531.1	44699

Metals

Prep Batch: 43354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	3020A	
410-13613-3	PAD C	Total/NA	Water	3020A	
MB 410-43354/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-43354/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 43355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-2	PAD B	Total/NA	Water	3020A	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	3020A	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	3020A	
MB 410-43355/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-43355/2-A	Lab Control Sample	Total/NA	Water	3020A	
410-13613-2 MS	PAD B	Total/NA	Water	3020A	
410-13613-2 MSD	PAD B	Total/NA	Water	3020A	
410-13613-2 DU	PAD B	Total/NA	Water	3020A	

Prep Batch: 43494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	7470A	
410-13613-3	PAD C	Total/NA	Water	7470A	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 43494 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-43494/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-43494/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 43503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-2	PAD B	Total/NA	Water	7470A	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	7470A	
MB 410-43503/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-43503/2-A	Lab Control Sample	Total/NA	Water	7470A	
410-13613-2 MS	PAD B	Total/NA	Water	7470A	
410-13613-2 MSD	PAD B	Total/NA	Water	7470A	
410-13613-2 DU	PAD B	Total/NA	Water	7470A	

Analysis Batch: 44177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	7470A	43494
410-13613-2	PAD B	Total/NA	Water	7470A	43503
410-13613-3	PAD C	Total/NA	Water	7470A	43494
410-13613-4	FIELD DUPLICATE	Total/NA	Water	7470A	43494
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	7470A	43503
MB 410-43494/1-A	Method Blank	Total/NA	Water	7470A	43494
MB 410-43503/1-A	Method Blank	Total/NA	Water	7470A	43503
LCS 410-43494/2-A	Lab Control Sample	Total/NA	Water	7470A	43494
LCS 410-43503/2-A	Lab Control Sample	Total/NA	Water	7470A	43503
410-13613-2 MS	PAD B	Total/NA	Water	7470A	43503
410-13613-2 MSD	PAD B	Total/NA	Water	7470A	43503
410-13613-2 DU	PAD B	Total/NA	Water	7470A	43503

Analysis Batch: 45639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	6020A	43354
410-13613-3	PAD C	Total/NA	Water	6020A	43354
MB 410-43354/1-A	Method Blank	Total/NA	Water	6020A	43354
LCS 410-43354/2-A	Lab Control Sample	Total/NA	Water	6020A	43354

Analysis Batch: 45736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-2	PAD B	Total/NA	Water	6020A	43355
410-13613-4	FIELD DUPLICATE	Total/NA	Water	6020A	43355
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	6020A	43355
MB 410-43355/1-A	Method Blank	Total/NA	Water	6020A	43355
LCS 410-43355/2-A	Lab Control Sample	Total/NA	Water	6020A	43355
410-13613-2 MS	PAD B	Total/NA	Water	6020A	43355
410-13613-2 MSD	PAD B	Total/NA	Water	6020A	43355
410-13613-2 DU	PAD B	Total/NA	Water	6020A	43355

Prep Batch: 47414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-4	FIELD DUPLICATE	Total/NA	Water	3020A	
LCS 410-47414/2-A	Lab Control Sample	Total/NA	Water	3020A	

Metals

Prep Batch: 47643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-2	PAD B	Total/NA	Water	3020A	
410-13613-2 DU	PAD B	Total/NA	Water	3020A	

Analysis Batch: 48116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-4	FIELD DUPLICATE	Total/NA	Water	6020A	47414
LCS 410-47414/2-A	Lab Control Sample	Total/NA	Water	6020A	47414

Analysis Batch: 48799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-2	PAD B	Total/NA	Water	6020A	47643
410-13613-2 DU	PAD B	Total/NA	Water	6020A	47643

General Chemistry

Prep Batch: 45013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	9012A	
410-13613-2	PAD B	Total/NA	Water	9012A	
410-13613-3	PAD C	Total/NA	Water	9012A	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	9012A	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	9012A	
MB 410-45013/2-A	Method Blank	Total/NA	Water	9012A	
LCS 410-45013/1-A	Lab Control Sample	Total/NA	Water	9012A	
410-13613-2 MS	PAD B	Total/NA	Water	9012A	
410-13613-2 DU	PAD B	Total/NA	Water	9012A	

Analysis Batch: 45643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	9012A	45013
410-13613-2	PAD B	Total/NA	Water	9012A	45013
410-13613-3	PAD C	Total/NA	Water	9012A	45013
410-13613-4	FIELD DUPLICATE	Total/NA	Water	9012A	45013
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	9012A	45013
MB 410-45013/2-A	Method Blank	Total/NA	Water	9012A	45013
LCS 410-45013/1-A	Lab Control Sample	Total/NA	Water	9012A	45013
410-13613-2 MS	PAD B	Total/NA	Water	9012A	45013
410-13613-2 DU	PAD B	Total/NA	Water	9012A	45013

Analysis Batch: 51353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	9012A	
410-13613-2	PAD B	Total/NA	Water	9012A	
410-13613-3	PAD C	Total/NA	Water	9012A	
410-13613-4	FIELD DUPLICATE	Total/NA	Water	9012A	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	9012A	

Client Sample ID: PAD A

Date Collected: 09/10/20 08:45
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46555	09/22/20 21:35	ULCP	ELLE
Total/NA	Prep	3510C			43630	09/14/20 17:45	DFX4	ELLE
Total/NA	Analysis	8270D		1	44507	09/17/20 02:05	ULM3	ELLE
Total/NA	Prep	8015 DAI			46046	09/21/20 13:10	LXF2	ELLE
Total/NA	Analysis	8015B		1	46045	09/21/20 18:11	LXF2	ELLE
Total/NA	Prep	3510C			43860	09/15/20 09:00	U2SJ	ELLE
Total/NA	Analysis	8081B		1	44215	09/15/20 23:10	UAMZ	ELLE
Total/NA	Prep	8151A			43788	09/15/20 00:30	USL7	ELLE
Total/NA	Analysis	8151A		1	43820	09/17/20 19:09	JH5B	ELLE
Total/NA	Prep	531			44699	09/16/20 21:42	GM5C	ELLE
Total/NA	Analysis	531.1		1	46196	09/22/20 09:37	GM5C	ELLE
Total/NA	Prep	3020A			43354	09/14/20 03:15	UJL8	ELLE
Total/NA	Analysis	6020A		1	45639	09/19/20 10:31	BMB	ELLE
Total/NA	Prep	7470A			43494	09/14/20 09:24	UAMX	ELLE
Total/NA	Analysis	7470A		1	44177	09/15/20 17:47	UEFS	ELLE
Total/NA	Prep	9012A			45013	09/17/20 15:03	F8AU	ELLE
Total/NA	Analysis	9012A		1	45643	09/19/20 11:49	P684	ELLE
Total/NA	Analysis	9012A		1	51353	10/06/20 11:30	NKL9	ELLE

Client Sample ID: PAD B

Date Collected: 09/10/20 08:15
Date Received: 09/10/20 17:18

Lab Sample ID: 410-13613-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46555	09/22/20 21:58	ULCP	ELLE
Total/NA	Prep	3510C			44329	09/16/20 09:30	U2SJ	ELLE
Total/NA	Analysis	8270D		1	44841	09/17/20 13:40	WKV3	ELLE
Total/NA	Prep	8015 DAI			46046	09/21/20 13:10	LXF2	ELLE
Total/NA	Analysis	8015B		1	46045	09/21/20 18:27	LXF2	ELLE
Total/NA	Prep	3510C			43860	09/15/20 09:00	U2SJ	ELLE
Total/NA	Analysis	8081B		1	44215	09/15/20 23:22	UAMZ	ELLE
Total/NA	Prep	8151A			43788	09/15/20 00:30	USL7	ELLE
Total/NA	Analysis	8151A		1	43820	09/17/20 19:43	JH5B	ELLE
Total/NA	Prep	531			44699	09/16/20 21:42	GM5C	ELLE
Total/NA	Analysis	531.1		1	46155	09/17/20 12:39	GM5C	ELLE
Total/NA	Prep	531			44699	09/16/20 21:42	GM5C	ELLE
Total/NA	Analysis	531.1		1	46196	09/22/20 10:27	GM5C	ELLE
Total/NA	Prep	3020A			43355	09/14/20 03:18	UJL8	ELLE
Total/NA	Analysis	6020A		1	45736	09/19/20 17:24	BMB	ELLE
Total/NA	Prep	3020A			47643	09/25/20 05:09	UAMX	ELLE
Total/NA	Analysis	6020A		1	48799	09/28/20 13:42	V5SW	ELLE
Total/NA	Prep	7470A			43503	09/14/20 09:31	UJL8	ELLE
Total/NA	Analysis	7470A		1	44177	09/15/20 18:01	UEFS	ELLE

Client Sample ID: PAD B

Lab Sample ID: 410-13613-2

Date Collected: 09/10/20 08:15

Matrix: Water

Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			45013	09/17/20 15:03	F8AU	ELLE
Total/NA	Analysis	9012A		1	45643	09/19/20 11:47	P684	ELLE
Total/NA	Analysis	9012A		1	51353	10/06/20 11:30	NKL9	ELLE

Client Sample ID: PAD C

Lab Sample ID: 410-13613-3

Date Collected: 09/10/20 09:30

Matrix: Water

Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46555	09/22/20 23:51	ULCP	ELLE
Total/NA	Prep	3510C			44329	09/16/20 09:30	U2SJ	ELLE
Total/NA	Analysis	8270D		1	44841	09/17/20 15:07	WKV3	ELLE
Total/NA	Prep	8015 DAI			46046	09/21/20 13:10	LXF2	ELLE
Total/NA	Analysis	8015B		1	46045	09/21/20 19:17	LXF2	ELLE
Total/NA	Prep	3510C			43860	09/15/20 09:00	U2SJ	ELLE
Total/NA	Analysis	8081B		5	44215	09/15/20 23:59	UAMZ	ELLE
Total/NA	Prep	8151A			43788	09/15/20 00:30	USL7	ELLE
Total/NA	Analysis	8151A		1	43820	09/17/20 21:23	JH5B	ELLE
Total/NA	Prep	531			44699	09/16/20 21:42	GM5C	ELLE
Total/NA	Analysis	531.1		1	46196	09/22/20 11:17	GM5C	ELLE
Total/NA	Prep	3020A			43354	09/14/20 03:15	UJL8	ELLE
Total/NA	Analysis	6020A		1	45639	09/19/20 10:33	BMB	ELLE
Total/NA	Prep	7470A			43494	09/14/20 09:24	UAMX	ELLE
Total/NA	Analysis	7470A		1	44177	09/15/20 17:49	UEFS	ELLE
Total/NA	Prep	9012A			45013	09/17/20 15:03	F8AU	ELLE
Total/NA	Analysis	9012A		1	45643	09/19/20 11:43	P684	ELLE
Total/NA	Analysis	9012A		1	51353	10/06/20 11:30	NKL9	ELLE

Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 410-13613-4

Date Collected: 09/10/20 08:15

Matrix: Water

Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46555	09/23/20 00:13	ULCP	ELLE
Total/NA	Prep	3510C			43630	09/14/20 17:45	DFX4	ELLE
Total/NA	Analysis	8270D		1	44507	09/17/20 02:34	ULM3	ELLE
Total/NA	Prep	8015 DAI			46046	09/21/20 13:10	LXF2	ELLE
Total/NA	Analysis	8015B		1	46045	09/21/20 19:34	LXF2	ELLE
Total/NA	Prep	3510C			44820	09/17/20 09:00	R9CT	ELLE
Total/NA	Analysis	8081B		1	45077	09/17/20 19:50	UAMZ	ELLE
Total/NA	Prep	8151A			43788	09/15/20 00:30	USL7	ELLE
Total/NA	Analysis	8151A		1	43820	09/17/20 21:56	JH5B	ELLE
Total/NA	Prep	531			44699	09/16/20 21:42	GM5C	ELLE
Total/NA	Analysis	531.1		1	46155	09/17/20 14:19	GM5C	ELLE

Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 410-13613-4

Date Collected: 09/10/20 08:15

Matrix: Water

Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	531			44699	09/16/20 21:42	GM5C	ELLE
Total/NA	Analysis	531.1		1	46196	09/22/20 12:08	GM5C	ELLE
Total/NA	Prep	3020A			43355	09/14/20 03:18	UJL8	ELLE
Total/NA	Analysis	6020A		1	45736	09/19/20 17:34	BMB	ELLE
Total/NA	Prep	3020A			47414	09/24/20 13:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	48116	09/26/20 14:13	UPJE	ELLE
Total/NA	Prep	7470A			43494	09/14/20 09:24	UAMX	ELLE
Total/NA	Analysis	7470A		1	44177	09/15/20 17:55	UEFS	ELLE
Total/NA	Prep	9012A			45013	09/17/20 15:03	F8AU	ELLE
Total/NA	Analysis	9012A		1	45643	09/19/20 11:39	P684	ELLE
Total/NA	Analysis	9012A		1	51353	10/06/20 11:30	NKL9	ELLE

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 410-13613-5

Date Collected: 09/10/20 10:00

Matrix: Water

Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46555	09/22/20 20:50	ULCP	ELLE
Total/NA	Prep	3510C			43630	09/14/20 17:45	DFX4	ELLE
Total/NA	Analysis	8270D		1	44507	09/17/20 03:03	ULM3	ELLE
Total/NA	Prep	8015 DAI			46046	09/21/20 13:10	LXF2	ELLE
Total/NA	Analysis	8015B		1	46045	09/21/20 19:51	LXF2	ELLE
Total/NA	Prep	3510C			43860	09/15/20 09:00	U2SJ	ELLE
Total/NA	Analysis	8081B		1	44215	09/16/20 00:11	UAMZ	ELLE
Total/NA	Prep	8151A			43788	09/15/20 00:30	USL7	ELLE
Total/NA	Analysis	8151A		1	43820	09/17/20 22:30	JH5B	ELLE
Total/NA	Prep	531			44699	09/16/20 21:42	GM5C	ELLE
Total/NA	Analysis	531.1		1	46196	09/22/20 12:58	GM5C	ELLE
Total/NA	Prep	3020A			43355	09/14/20 03:18	UJL8	ELLE
Total/NA	Analysis	6020A		1	45736	09/19/20 17:36	BMB	ELLE
Total/NA	Prep	7470A			43503	09/14/20 09:31	UJL8	ELLE
Total/NA	Analysis	7470A		1	44177	09/15/20 18:10	UEFS	ELLE
Total/NA	Prep	9012A			45013	09/17/20 15:03	F8AU	ELLE
Total/NA	Analysis	9012A		1	45643	09/19/20 11:38	P684	ELLE
Total/NA	Analysis	9012A		1	51353	10/06/20 11:30	NKL9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-13613-6

Date Collected: 09/10/20 00:00

Matrix: Water

Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	46555	09/22/20 21:12	ULCP	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-1
Project/Site: Experimental Station - Waste Pad Closure 2020

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	521	10-27-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
531.1	531	Water	Carbaryl
531.1	531	Water	Carbofuran
531.1	531	Water	Methiocarb
531.1	531	Water	Methomyl
531.1	531	Water	Oxamyl
6020A	3020A	Water	Arsenic
6020A	3020A	Water	Barium
6020A	3020A	Water	Cadmium
6020A	3020A	Water	Calcium
6020A	3020A	Water	Chromium
6020A	3020A	Water	Lead
6020A	3020A	Water	Nickel
6020A	3020A	Water	Selenium
6020A	3020A	Water	Silver
8015B	8015 DAI	Water	1-Butanol (1C)
8015B	8015 DAI	Water	Isobutanol (1C)
8015B	8015 DAI	Water	Methanol (2C)
8260C		Water	1,1,1,2-Tetrachloroethane
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,4-Dioxane
8260C		Water	2-Butanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Acrylonitrile
8260C		Water	Benzene
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Dibromomethane
8260C		Water	Dichlorodifluoromethane

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	521	10-27-20

8260C		Water	Ethyl acetate
8260C		Water	Ethyl ether
8260C		Water	Ethyl methacrylate
8260C		Water	Ethylbenzene
8260C		Water	Freon 113
8260C		Water	Methacrylonitrile
8260C		Water	Methyl iodide
8260C		Water	Methyl methacrylate
8260C		Water	Methylene Chloride
8260C		Water	Pentachloroethane
8260C		Water	Tetrachloroethene
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	1,2,4,5-Tetrachlorobenzene
8270D	3510C	Water	1,2,4-Trichlorobenzene
8270D	3510C	Water	1,2-Dichlorobenzene
8270D	3510C	Water	1,3-Dichlorobenzene
8270D	3510C	Water	1,4-Dichlorobenzene
8270D	3510C	Water	2,2'-oxybis[1-chloropropane]
8270D	3510C	Water	2,4,5-Trichlorophenol
8270D	3510C	Water	2,4,6-Trichlorophenol
8270D	3510C	Water	2,4-Dichlorophenol
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2,4-Dinitrotoluene
8270D	3510C	Water	2,6-Dichlorophenol
8270D	3510C	Water	2,6-Dinitrotoluene
8270D	3510C	Water	2-Acetylaminofluorene
8270D	3510C	Water	2-Chloronaphthalene
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	2-Methylphenol
8270D	3510C	Water	3-Methylcholanthrene
8270D	3510C	Water	4,4'-Methylene bis(2-chloroaniline)
8270D	3510C	Water	4-Bromophenyl-phenylether
8270D	3510C	Water	4-Chloro-3-methylphenol
8270D	3510C	Water	4-Chloroaniline
8270D	3510C	Water	4-Methylphenol
8270D	3510C	Water	4-Nitroaniline
8270D	3510C	Water	4-Nitrophenol
8270D	3510C	Water	5-Nitro-o-toluidine
8270D	3510C	Water	Acetophenone
8270D	3510C	Water	Aniline
8270D	3510C	Water	Anthracene
8270D	3510C	Water	Benzo[a]anthracene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	521	10-27-20

8270D	3510C	Water	Benzo[a]pyrene
8270D	3510C	Water	Bis(2-chloroethoxy)methane
8270D	3510C	Water	Bis(2-chloroethyl)ether
8270D	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D	3510C	Water	Butylbenzylphthalate
8270D	3510C	Water	Chrysene
8270D	3510C	Water	Dibenz(a,h)anthracene
8270D	3510C	Water	Diethyl phthalate
8270D	3510C	Water	Dimethyl phthalate
8270D	3510C	Water	Di-n-butyl phthalate
8270D	3510C	Water	Di-n-octyl phthalate
8270D	3510C	Water	Fluoranthene
8270D	3510C	Water	Hexachlorobenzene
8270D	3510C	Water	Hexachlorobutadiene
8270D	3510C	Water	Hexachlorocyclopentadiene
8270D	3510C	Water	Hexachloroethane
8270D	3510C	Water	Hexachloropropene
8270D	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D	3510C	Water	Isosafrole
8270D	3510C	Water	Methapyrilene
8270D	3510C	Water	Naphthalene
8270D	3510C	Water	Nitrobenzene
8270D	3510C	Water	N-Nitrosodiethylamine
8270D	3510C	Water	N-Nitrosodi-n-butylamine
8270D	3510C	Water	N-Nitrosodi-n-propylamine
8270D	3510C	Water	N-Nitrosopiperidine
8270D	3510C	Water	N-Nitrosopyrrolidine
8270D	3510C	Water	Pentachlorobenzene
8270D	3510C	Water	Pentachloronitrobenzene
8270D	3510C	Water	Pentachlorophenol
8270D	3510C	Water	Phenacetin
8270D	3510C	Water	Phenanthrene
8270D	3510C	Water	Phenol
8270D	3510C	Water	Pronamide
8270D	3510C	Water	Pyrene
8270D	3510C	Water	Pyridine
8270D	3510C	Water	Safrole, Total
9012A		Water	Cyanide, Amenable
9012A	9012A	Water	Cyanide, Total

Method Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-1
Project/Site: Experimental Station - Waste Pad Closure 2020

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	ELLE
8081B	Organochlorine Pesticides (GC)	SW846	ELLE
8151A	Herbicides (GC)	SW846	ELLE
531.1	Carbamate Pesticides (HPLC)	EPA	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9012A	Cyanide, Amenable	SW846	ELLE
9012A	Cyanide, Total and/or Amenable	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
531	Carbamates Pesticides (HPLC)	EPA	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8015 DAI	Prepartion, Direct Aqueous Injection	SW846	ELLE
8151A	Extraction (Herbicides)	SW846	ELLE
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-1
Project/Site: Experimental Station - Waste Pad Closure 2020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-13613-1	PAD A	Water	09/10/20 08:45	09/10/20 17:18	
410-13613-2	PAD B	Water	09/10/20 08:15	09/10/20 17:18	
410-13613-3	PAD C	Water	09/10/20 09:30	09/10/20 17:18	
410-13613-4	FIELD DUPLICATE	Water	09/10/20 08:15	09/10/20 17:18	
410-13613-5	EQUIPMENT BLANK	Water	09/10/20 10:00	09/10/20 17:18	
410-13613-6	Trip Blank	Water	09/10/20 00:00	09/10/20 17:18	

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Envi[barcode]is Request/Chain of Custody

410-13613 Chain of Custody

Sample # ____

Client: Dupont Experimental Station	
Project Name: Experimental Station - Waste Pad Closure 2020	
Project Manager: P. CHEN	P.O.#:
Sampler: D. SHELDON	PWSID #:
Phone #: 610.368.6654	Quote #:
State where samples were collected: DE	For Compliance: Yes ☑ No ☐

Matrix: Soil ☐ Sediment ☐ Tissue ☐ / Water: Potable ☐ NPDES ☐ Ground ☐ Surface ☑ / Other: Blank Water

Analyses Requested — Preservation and Filtration Codes

Sample Identification	Date	Time	Grab	Composite	Soil/Sediment/Tissue	Water	Other	Total # of Containers	VOCs (8260C) H	SVOCs (8270D)	Alcohols (8015B) H	Carbamates (531.1) O	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7470A) N	Total and Amenable CN (9012A) O			Remarks
PAD A	9/10/20	0845	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓			
PAD B	9/10/20	0815	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓			
PAD C	9/10/20	0930	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓			
FIELD DUPLICATE	9/10/20	0815	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓			
MS	9/10/20	0815	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓			
MSD	9/10/20	0815	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓			
EQUIPMENT BLANK	9/10/20	1000	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓			

For Lab Use Only
SF#:
SCR#: 262975

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:
Rush results requested by (please check): E-Mail ☐ Phone ☐
E-mail Address:
Phone:

Data Package Options (please check if required)
Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B
EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

Relinquished by	Date	Time	Received by	Date	Time
[signature]	9/10/20	1301			
[signature]	9/10	1200			
			[signature]	9-10-20	1718

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other X
Temperature upon receipt 12.7-13.6 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0717

Login Sample Receipt Checklist

Client: DuPont Specialty Products USA LLC

Job Number: 410-13613-1

Login Number: 13613
List Number: 1
Creator: Reiff, Nicole L

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-13613-2
Client Project/Site: Experimental Station - Waste Pad Closure 2020

For:
DuPont Specialty Products USA LLC
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom

Authorized for release by:
12/11/2020 12:03:13 PM

Dorothy Coplan, Project Manager
(717)556-4611
Dorothy.Coplan@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Dorothy Coplan
Project Manager
12/11/2020 12:03:14 PM

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-13613-2

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-13613-2

Comments
No additional comments.

Receipt
The samples were received on 9/10/2020 5:18 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 12.7º C, 13.3º C and 13.6º C.

Receipt Exceptions

Metals batch QC bottle received for Pad B.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC Semi VOA
Method 8082A: The continuing calibration verification (CCV) associated with batch 45380 recovered above the upper control limit for DCB Decachlorobiphenyl (Surr). The samples associated with this CCV recovered within control limits for the affected surrogate; therefore, the data have been reported. The associated sample is impacted: FIELD DUPLICATE (410-13613-4).

Method 8082A: The continuing calibration verification (CCV) associated with batch 410-45381 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: PAD A (410-13613-1), PAD B (410-13613-2), PAD B (410-13613-2[MS]), PAD B (410-13613-2[MSD]), PAD C (410-13613-3) and EQUIPMENT BLANK (410-13613-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-2
Project/Site: Experimental Station - Waste Pad Closure 2020

Client Sample ID: PAD A — Lab Sample ID: 410-13613-1

No Detections.

Client Sample ID: PAD B — Lab Sample ID: 410-13613-2

No Detections.

Client Sample ID: PAD C — Lab Sample ID: 410-13613-3

No Detections.

Client Sample ID: FIELD DUPLICATE — Lab Sample ID: 410-13613-4

No Detections.

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 410-13613-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD A
Lab Sample ID: 410-13613-1
Date Collected: 09/10/20 08:45
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/19/20 00:06	1
PCB-1221 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/19/20 00:06	1
PCB-1232 (1C)	ND		0.50	0.20	ug/L		09/15/20 09:00	09/19/20 00:06	1
PCB-1242 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/19/20 00:06	1
PCB-1248 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/19/20 00:06	1
PCB-1254 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/19/20 00:06	1
PCB-1260 (1C)	ND		0.50	0.15	ug/L		09/15/20 09:00	09/19/20 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*64*		*10 - 148*	*09/15/20 09:00*	*09/19/20 00:06*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*67*		*10 - 148*	*09/15/20 09:00*	*09/19/20 00:06*	*1*
Tetrachloro-m-xylene (1C)	*62*		*33 - 137*	*09/15/20 09:00*	*09/19/20 00:06*	*1*
Tetrachloro-m-xylene (2C)	*69*		*33 - 137*	*09/15/20 09:00*	*09/19/20 00:06*	*1*

Client Sample ID: PAD B
Lab Sample ID: 410-13613-2
Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:18	1
PCB-1221 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:18	1
PCB-1232 (1C)	ND		0.51	0.20	ug/L		09/15/20 09:00	09/19/20 00:18	1
PCB-1242 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:18	1
PCB-1248 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:18	1
PCB-1254 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:18	1
PCB-1260 (1C)	ND		0.51	0.15	ug/L		09/15/20 09:00	09/19/20 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*50*		*10 - 148*	*09/15/20 09:00*	*09/19/20 00:18*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*55*		*10 - 148*	*09/15/20 09:00*	*09/19/20 00:18*	*1*
Tetrachloro-m-xylene (1C)	*59*		*33 - 137*	*09/15/20 09:00*	*09/19/20 00:18*	*1*
Tetrachloro-m-xylene (2C)	*64*		*33 - 137*	*09/15/20 09:00*	*09/19/20 00:18*	*1*

Client Sample ID: PAD C
Lab Sample ID: 410-13613-3
Date Collected: 09/10/20 09:30
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:30	1
PCB-1221 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:30	1
PCB-1232 (1C)	ND		0.51	0.20	ug/L		09/15/20 09:00	09/19/20 00:30	1
PCB-1242 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:30	1
PCB-1248 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:30	1
PCB-1254 (1C)	ND		0.51	0.10	ug/L		09/15/20 09:00	09/19/20 00:30	1
PCB-1260 (1C)	ND		0.51	0.15	ug/L		09/15/20 09:00	09/19/20 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*52*		*10 - 148*	*09/15/20 09:00*	*09/19/20 00:30*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*55*		*10 - 148*	*09/15/20 09:00*	*09/19/20 00:30*	*1*

Client Sample ID: PAD C
Lab Sample ID: 410-13613-3
Date Collected: 09/10/20 09:30
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (1C)	*61*		*33 - 137*	*09/15/20 09:00*	*09/19/20 00:30*	*1*
Tetrachloro-m-xylene (2C)	*70*		*33 - 137*	*09/15/20 09:00*	*09/19/20 00:30*	*1*

Client Sample ID: FIELD DUPLICATE
Lab Sample ID: 410-13613-4
Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:44	1
PCB-1221 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:44	1
PCB-1232 (1C)	ND		0.50	0.20	ug/L		09/17/20 09:00	09/18/20 08:44	1
PCB-1242 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:44	1
PCB-1248 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:44	1
PCB-1254 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:44	1
PCB-1260 (1C)	ND		0.50	0.15	ug/L		09/17/20 09:00	09/18/20 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*66*		*10 - 148*	*09/17/20 09:00*	*09/18/20 08:44*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*78*		*10 - 148*	*09/17/20 09:00*	*09/18/20 08:44*	*1*
Tetrachloro-m-xylene (1C)	*70*		*33 - 137*	*09/17/20 09:00*	*09/18/20 08:44*	*1*
Tetrachloro-m-xylene (2C)	*76*		*33 - 137*	*09/17/20 09:00*	*09/18/20 08:44*	*1*

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 410-13613-5
Date Collected: 09/10/20 10:00
Matrix: Water
Date Received: 09/10/20 17:18

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.52	0.10	ug/L		09/15/20 09:00	09/19/20 00:41	1
PCB-1221 (1C)	ND		0.52	0.10	ug/L		09/15/20 09:00	09/19/20 00:41	1
PCB-1232 (1C)	ND		0.52	0.21	ug/L		09/15/20 09:00	09/19/20 00:41	1
PCB-1242 (1C)	ND		0.52	0.10	ug/L		09/15/20 09:00	09/19/20 00:41	1
PCB-1248 (1C)	ND		0.52	0.10	ug/L		09/15/20 09:00	09/19/20 00:41	1
PCB-1254 (1C)	ND		0.52	0.10	ug/L		09/15/20 09:00	09/19/20 00:41	1
PCB-1260 (1C)	ND		0.52	0.16	ug/L		09/15/20 09:00	09/19/20 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*86*		*10 - 148*	*09/15/20 09:00*	*09/19/20 00:41*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*85*		*10 - 148*	*09/15/20 09:00*	*09/19/20 00:41*	*1*
Tetrachloro-m-xylene (1C)	*71*		*33 - 137*	*09/15/20 09:00*	*09/19/20 00:41*	*1*
Tetrachloro-m-xylene (2C)	*75*		*33 - 137*	*09/15/20 09:00*	*09/19/20 00:41*	*1*

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-2
Project/Site: Experimental Station - Waste Pad Closure 2020

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-148)	(10-148)	(33-137)	(33-137)
410-13613-1	PAD A	64	67	62	69
410-13613-2	PAD B	50	55	59	64
410-13613-2 MS	PAD B	51	53	63	71
410-13613-2 MSD	PAD B	47	47	67	73
410-13613-3	PAD C	52	55	61	70
410-13613-4	FIELD DUPLICATE	66	78	70	76
410-13613-5	EQUIPMENT BLANK	86	85	71	75
LCS 410-43861/2-A	Lab Control Sample	60	63	57	62
LCS 410-44821/2-A	Lab Control Sample	69	80	56	61
LCSD 410-44821/3-A	Lab Control Sample Dup	83	97	47	50
MB 410-43861/1-A	Method Blank	54	54	68	74
MB 410-44821/1-A	Method Blank	76	83	60	68

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 410-43861/1-A
Matrix: Water
Analysis Batch: 45381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/18/20 22:56	1
PCB-1221 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/18/20 22:56	1
PCB-1232 (1C)	ND		0.50	0.20	ug/L		09/15/20 09:00	09/18/20 22:56	1
PCB-1242 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/18/20 22:56	1
PCB-1248 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/18/20 22:56	1
PCB-1254 (1C)	ND		0.50	0.10	ug/L		09/15/20 09:00	09/18/20 22:56	1
PCB-1260 (1C)	ND		0.50	0.15	ug/L		09/15/20 09:00	09/18/20 22:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*54*		*10 - 148*	*09/15/20 09:00*	*09/18/20 22:56*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*54*		*10 - 148*	*09/15/20 09:00*	*09/18/20 22:56*	*1*
Tetrachloro-m-xylene (1C)	*68*		*33 - 137*	*09/15/20 09:00*	*09/18/20 22:56*	*1*
Tetrachloro-m-xylene (2C)	*74*		*33 - 137*	*09/15/20 09:00*	*09/18/20 22:56*	*1*

Lab Sample ID: LCS 410-43861/2-A
Matrix: Water
Analysis Batch: 45381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43861

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016 (1C)			5.01	4.13		ug/L		82	60 - 117		
PCB-1260 (1C)			5.01	4.23		ug/L		84	57 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*60*		*10 - 148*
DCB Decachlorobiphenyl (Surr) (2C)	*63*		*10 - 148*
Tetrachloro-m-xylene (1C)	*57*		*33 - 137*
Tetrachloro-m-xylene (2C)	*62*		*33 - 137*

Lab Sample ID: 410-13613-2 MS
Matrix: Water
Analysis Batch: 45381

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43861

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016 (1C)	ND		5.03	4.98		ug/L		99	60 - 177		
PCB-1260 (1C)	ND		5.03	4.44		ug/L		88	57 - 134		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*51*		*10 - 148*
DCB Decachlorobiphenyl (Surr) (2C)	*53*		*10 - 148*
Tetrachloro-m-xylene (1C)	*63*		*33 - 137*
Tetrachloro-m-xylene (2C)	*71*		*33 - 137*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 410-13613-2 MSD
Matrix: Water
Analysis Batch: 45381

Client Sample ID: PAD B
Prep Type: Total/NA
Prep Batch: 43861

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016 (1C)	ND		5.03	4.97		ug/L		99	60 - 177	0	30
PCB-1260 (1C)	ND		5.03	4.27		ug/L		85	57 - 134	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*47*		*10 - 148*
DCB Decachlorobiphenyl (Surr) (2C)	*47*		*10 - 148*
Tetrachloro-m-xylene (1C)	*67*		*33 - 137*
Tetrachloro-m-xylene (2C)	*73*		*33 - 137*

Lab Sample ID: MB 410-44821/1-A
Matrix: Water
Analysis Batch: 45380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:14	1
PCB-1221 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:14	1
PCB-1232 (1C)	ND		0.50	0.20	ug/L		09/17/20 09:00	09/18/20 08:14	1
PCB-1242 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:14	1
PCB-1248 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:14	1
PCB-1254 (1C)	ND		0.50	0.10	ug/L		09/17/20 09:00	09/18/20 08:14	1
PCB-1260 (1C)	ND		0.50	0.15	ug/L		09/17/20 09:00	09/18/20 08:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*76*		*10 - 148*	*09/17/20 09:00*	*09/18/20 08:14*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*83*		*10 - 148*	*09/17/20 09:00*	*09/18/20 08:14*	*1*
Tetrachloro-m-xylene (1C)	*60*		*33 - 137*	*09/17/20 09:00*	*09/18/20 08:14*	*1*
Tetrachloro-m-xylene (2C)	*68*		*33 - 137*	*09/17/20 09:00*	*09/18/20 08:14*	*1*

Lab Sample ID: LCS 410-44821/2-A
Matrix: Water
Analysis Batch: 45380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44821

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016 (1C)			5.01	4.33		ug/L		86	60 - 117		
PCB-1260 (1C)			5.01	4.67		ug/L		93	57 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*69*		*10 - 148*
DCB Decachlorobiphenyl (Surr) (2C)	*80*		*10 - 148*
Tetrachloro-m-xylene (1C)	*56*		*33 - 137*
Tetrachloro-m-xylene (2C)	*61*		*33 - 137*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 410-44821/3-A
Matrix: Water
Analysis Batch: 45380

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44821

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016 (1C)			5.01	4.40		ug/L		88	60 - 117	2	30
PCB-1260 (1C)			5.01	4.81		ug/L		96	57 - 134	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*83*		*10 - 148*
DCB Decachlorobiphenyl (Surr) (2C)	*97*		*10 - 148*
Tetrachloro-m-xylene (1C)	*47*		*33 - 137*
Tetrachloro-m-xylene (2C)	*50*		*33 - 137*

QC Association Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-2
Project/Site: Experimental Station - Waste Pad Closure 2020

GC Semi VOA

Prep Batch: 43861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	3510C	
410-13613-2	PAD B	Total/NA	Water	3510C	
410-13613-3	PAD C	Total/NA	Water	3510C	
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	3510C	
MB 410-43861/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-43861/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-13613-2 MS	PAD B	Total/NA	Water	3510C	
410-13613-2 MSD	PAD B	Total/NA	Water	3510C	

Prep Batch: 44821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-4	FIELD DUPLICATE	Total/NA	Water	3510C	
MB 410-44821/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-44821/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-44821/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 45380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-4	FIELD DUPLICATE	Total/NA	Water	8082A	44821
MB 410-44821/1-A	Method Blank	Total/NA	Water	8082A	44821
LCS 410-44821/2-A	Lab Control Sample	Total/NA	Water	8082A	44821
LCSD 410-44821/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	44821

Analysis Batch: 45381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-13613-1	PAD A	Total/NA	Water	8082A	43861
410-13613-2	PAD B	Total/NA	Water	8082A	43861
410-13613-3	PAD C	Total/NA	Water	8082A	43861
410-13613-5	EQUIPMENT BLANK	Total/NA	Water	8082A	43861
MB 410-43861/1-A	Method Blank	Total/NA	Water	8082A	43861
LCS 410-43861/2-A	Lab Control Sample	Total/NA	Water	8082A	43861
410-13613-2 MS	PAD B	Total/NA	Water	8082A	43861
410-13613-2 MSD	PAD B	Total/NA	Water	8082A	43861

Lab Chronicle

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-2
Project/Site: Experimental Station - Waste Pad Closure 2020

Client Sample ID: PAD A
Lab Sample ID: 410-13613-1
Date Collected: 09/10/20 08:45
Matrix: Water
Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			43861	09/15/20 09:00	U2SJ	ELLE
Total/NA	Analysis	8082A		1	45381	09/19/20 00:06	JC94	ELLE

Client Sample ID: PAD B
Lab Sample ID: 410-13613-2
Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			43861	09/15/20 09:00	U2SJ	ELLE
Total/NA	Analysis	8082A		1	45381	09/19/20 00:18	JC94	ELLE

Client Sample ID: PAD C
Lab Sample ID: 410-13613-3
Date Collected: 09/10/20 09:30
Matrix: Water
Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			43861	09/15/20 09:00	U2SJ	ELLE
Total/NA	Analysis	8082A		1	45381	09/19/20 00:30	JC94	ELLE

Client Sample ID: FIELD DUPLICATE
Lab Sample ID: 410-13613-4
Date Collected: 09/10/20 08:15
Matrix: Water
Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			44821	09/17/20 09:00	R9CT	ELLE
Total/NA	Analysis	8082A		1	45380	09/18/20 08:44	JC94	ELLE

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 410-13613-5
Date Collected: 09/10/20 10:00
Matrix: Water
Date Received: 09/10/20 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			43861	09/15/20 09:00	U2SJ	ELLE
Total/NA	Analysis	8082A		1	45381	09/19/20 00:41	JC94	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-2
Project/Site: Experimental Station - Waste Pad Closure 2020

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	521	10-27-20

Method Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-2
Project/Site: Experimental Station - Waste Pad Closure 2020

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-13613-2
Project/Site: Experimental Station - Waste Pad Closure 2020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-13613-1	PAD A	Water	09/10/20 08:45	09/10/20 17:18	
410-13613-2	PAD B	Water	09/10/20 08:15	09/10/20 17:18	
410-13613-3	PAD C	Water	09/10/20 09:30	09/10/20 17:18	
410-13613-4	FIELD DUPLICATE	Water	09/10/20 08:15	09/10/20 17:18	
410-13613-5	EQUIPMENT BLANK	Water	09/10/20 10:00	09/10/20 17:18	

eurofins | Lancaster Laboratories Environmental

Envi[barcode] is Request/Chain of Custody

410-13613 Chain of Custody

Sample # ____

Client: Dupont Experimental Station	
Project Name: Experimental Station - Waste Pad Closure 2020	
Project Manager: P. CHEN	P.O.#:
Sampler: D. SHELDON	PWSID #:
Phone #: 610.368.6654	Quote #:
State where samples were collected: DE	For Compliance: Yes ☑ No ☐

Matrix: Soil ☐ Sediment ☐ Tissue ☐; Water: Potable ☐ NPDES ☐ Ground ☐ Surface ☑; Other: Blank Water

Analyses Requested — Preservation and Filtration Codes: VOCs (8260C) H; SVOCs (8270D); Alcohols (8015B) H; Carbamates (531.1) O; Herbicides (8151A); Pesticides/PCBs (8081/8082); Metals (6020A/7470A) N; Total and Amenable CN (9012A) O

For Lab Use Only: SF#: SCR#: 262975

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

Sample Identification	Date	Time	Grab	Composite	Water	Total # of Containers	VOCs (8260C)	SVOCs (8270D)	Alcohols (8015B)	Carbamates (531.1)	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7470A)	Total and Amenable CN (9012A)	Remarks
PAD A	9/10/20	0845	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	
PAD B	9/10/20	0815	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	
PAD C	9/10/20	0930	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	
FIELD DUPLICATE	9/10/20	0815	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	
MS	9/10/20	0815	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	
MSD	9/10/20	0815	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	
EQUIPMENT BLANK	9/10/20	1000	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:
Rush results requested by (please check): E-Mail ☐ Phone ☐
E-mail Address:
Phone:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/9/20	1301			
[signature]	9/10	1200			
			[signature]	9-10-20	1718

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other X

Temperature upon receipt 12.7-13.6 °C

Data Package Options (please check if required)
Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B
EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

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7045 0717

12/11/2020

Login Sample Receipt Checklist

Client: DuPont Specialty Products USA LLC

Job Number: 410-13613-2

Login Number: 13613
List Number: 1
Creator: Reiff, Nicole L

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

Appendix E

Soil Sampling Work Plan

Soil Sampling Work Plan for Closure of Waste Storage Pads A, B, G, 23, 24, 24-0, and the Facility Incinerator

DuPont Experimental Station
200 Powder Mill Road
Wilmington, DE 19803

Prepared for:
DuPont Specialty Products USA, LLC

Submitted by:
AECOM
Sabre Building
Suite 300
4051 Ogletown Road
Newark, DE 19713

Project Number: 60633074
Date: August 2020

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Figure 3 Pads A, B, 23, 24, 24-0 – Proposed Soil Sample Locations for Pad Closure

Figure 4 Pad G: Proposed Soil Sample Locations for Pad Closure

Figure 5 Identification of Incinerator Area

1.0 Introduction

The DuPont Experimental Station, located in Wilmington, Delaware (see Figure 1), has elected to close the facility's hazardous waste incinerator, including associated components, and waste storage pads. As part of closure related activities, characterization soil samples will be collected from areas adjacent to Pads A, B, G, 23, 24, and 24-0 (see Figure 2 for the location of the pads) to characterize pad area soils for closure determination. In addition, upon completion of the decommissioning and dismantlement of the facility incinerator (see Figure 2 for the location of the incinerator area), soil samples will be collected from the incinerator area to characterize soil for closure determination.

This document presents the soil sample collection work plan detailing the method of soil sample collection, the proposed soil sample locations, and associated laboratory analytical parameters.

This work plan presents the following information in the identified sections:

- Section 2 describes the pertinent background information associated with this project.
- Section 3 presents the project purpose and objectives.
- Section 4 describes the field activities to be performed and the laboratory analytical parameters associated with samples to be collected.
- Section 5 summarizes the quality assurance/quality control samples associated with this project
- Section 6 summarizes the anticipated health and safety procedures.
- Section 7 summarizes the anticipated waste management procedures.
- Section 8 presents the project schedule.

2.0 Background

The 150-acre [0.61 square kilometers (km^2)] campus-style Experimental Station, located in Wilmington, Delaware, serves as the primary research and development facility for DuPont. In 1980 the Experimental Station submitted to the United States Environmental Protection Agency (EPA) a Resource Conservation and Recovery Act (RCRA) Hazardous Waste Part A Permit Application; the subsequent RCRA Hazardous Waste Part B Permit application was submitted in 1983.

In 1985 the State of Delaware, Department of Natural Resources and Environmental Control (DNREC) issued a RCRA hazardous waste storage permit to DuPont for the Experimental Station. The one year waste storage pads associated with this permit include Pads A, B, C, 23, 24, 24-0, D, E, F, and G.

This RCRA permitted Hazardous Waste Treatment facility operated from 1985 into 2020. In April 2020, DuPont notified DNREC of its intent to cease operations.

3.0 Purpose and Objective

The purpose and objective of the soil characterization activities are as follows:

- Purpose: Collect soil samples to 1) characterize current soils conditions in the area of the identified waste storage pads and 2) characterize soil conditions in the incinerator area after completing the incinerator dismantlement and removal.
- Objective: Determine if soils meet closure performance standards.

Based on the above purpose and objective, soil samples will be collected following the procedures presented in Section 4.0.

4.0 Field Activities: Soil Sampling

Soil samples will be collected from locations adjacent to waste storage pads A, B, G, 23, 24, 24-0 and from the incinerator area where there is exposed surface soil. Samples will be collected to determine if there is potential impact to soils as a result of storing waste on the pads. Soil characterization samples associated with the incinerator area will be collected after demolition and removal of the incinerator components. The soil analytical results associated with the incinerator area will assist in characterizing soil conditions in the area of the incinerator.

Soil samples will be collected using decontaminated hand tools such as stainless-steel spoons/trowels and/or a hand augers, shovels, post hole diggers, or similar tools. The soil material collected will be placed in stainless-steel bowls to allow for the transfer of soils into laboratory supplied containers.

Details regarding soil sample location, sample collection depth, and associated sample analytical parameters are discussed in Sections 4.1 and 4.2.

4.1 Waste Storage Pad Soil Sampling

In the area of waste storage pads A, B, G, 23, 24, and 24-0 AECOM will collect soil samples for laboratory analysis. Soil samples will be collected from around the pads where surface soils are exposed. Soil samples will not be collected through asphalt or concrete in order to maintain the impermeable integrity of the asphalt/concrete areas.

It is anticipated that soil samples will be collected at a depth equal to the bottom depth of the pad (storage pads are 6 inches thick) or sump, where present, unless a point of refusal occurs first. Field samplers will target the sample depth intervals identified in Table 1; however, soil samples may be collected at a shallower depth if refusal is encountered prior to reaching the target depth.

Where possible, samples will be collected at the corners and center point of each pad on the side where surface soils are exposed. Soil sampling areas for the waste storage pads are as follows:

- Soil samples for Pad A will be collected behind the rear wall of the pad with an additional sample collected on the eastern side near the sump.
- Soil samples for Pad B will be collected on the western side of the pad and behind the rear wall. One of the samples from the western side will be located near the sump.
- Soils samples for Pad G will be collected on the lowest sloped side of each pad in the gravel area.
- Soil samples for Pads, 23, 24, and 24-0 will be collected from behind the rear wall of the combined pads. In addition, soil samples will be collected in the vicinity of the sumps for each pad where surface soils are exposed and target depths are accessible.
- Soil Samples for Pad C will not be collected because the only accessible spot is filled with a thick layer of rip rap down to bedrock. This pad also slopes away from that area towards the roadway.

- Soil samples will not be collected for Pads D, E, and F as these pads are surrounded by concrete and asphalt; therefore, there are no exposed surface soils.

If adjacent sample locations are separated by a distance of 4 feet or less, one soil sample will be collected to represent both locations. Example (Figure 3): the southeast corner of Pad B is directly adjacent to the southwest corner of Pad A; one soil sample will be collected to represent both pad corners.

Waste pad soil sample locations and samples identification names are noted in Figures 3 and 4. Soil samples locations, depths, and sample identification are listed in Table 1.

4.1.1 Waste Storage Pad Soil Sample Evaluation

Closure of the storage pads must meet the requirements of the closure performance standards found in Delaware Regulations Governing Hazardous Waste (DRGHW) 264.111. The Closure Performance Standard (CPS) for the storage pad soil samples will be EPA Regional Screening Levels (RSL; TR=1E-06, HQ=1) for industrial soils. For the analytical constituents where an RSL is not available, the laboratory analytical Method Detection Limit (MDL) will be used.

Storage pad soil samples will be analyzed for the target analyte list found in Table 2; results will be compared against the CPS also identified in Table 2. If the CPS is met, no further action will be performed for the soils. If the CPS is not met, further discussion with the agency will occur.

4.2 Incinerator Area Soil Sampling

In the incinerator area, after dismantlement and removal, AECOM will collect five surficial soil samples from the incinerator area and an additional surface soil sample in the area of the waste chemical/solvent feed container.

The surface soil samples will be collected from areas where surface soils are exposed; soil samples will not be collected through existing asphalt or concrete in-order to maintain the impermeable integrity of the asphalt/concrete areas.

The surficial soil samples will be collected from 0 to 1 ft below ground surface (bgs), or down to refusal if refusal is encountered prior to the identified 1 foot depth. The general location of the incinerator area soil samples are as follows:

- Five samples will be collected from within the foot-print of the incinerator area Figure 5 displays the incinerator area where future sample locations will be targeted.
- One soil sample will be collected near the incinerator from the backside of the pad where the waste chemical/solvent feed container is located
  - The solvent blend container was used to contain waste liquids before being pumped from the container directly into the incinerator.
  - The solvent blend container is part of the incinerator components thus included in the incinerator sampling plan.

Figure 5 identifies the incinerator area. Table 1 identifies the general sampling areas of the six proposed incinerator related soil samples. Because it is currently unknown where

surficial soil material will be readily accessible, the exact sample locations will be identified after incinerator dismantlement and removal has been completed.

4.2.1 Incinerator Area Soil Sample Evaluation

Closure of the incinerator must meet the requirements of the closure performance standards found in DRGHW 264.111. The CPS for the incinerator area soil samples will be EPA RSLs (TR=1E-06, HQ=1) for industrial soils. For the analytical constituents where an RSL is not available, the laboratory analytical MDL will be used.

Incinerator area soil samples will be analyzed for the target analyte list found in Table 2; results will be compared against the CPS identified in Table 2. If the CPS is met, no further action will be performed for the soils. If the CPS is not met, further discussion with the agency will occur.

4.3 Permits and Utility Clearing

Soil boring installation and associated soil sample collection will be performed using hand tools. Because only hand tools are being used, the hazards associated with underground utilities are considered low. However, prior to initiating pad and incinerator-area soil sampling, the following will be performed:

- AECOM will contact Miss Utility of Delmarva to notify underground utility owners of proposed boring activities prior to the start of boring/sampling activities.
- AECOM will complete all DuPont Experimental Station required excavation permits.

4.4 Equipment Decontamination and Boring Abandonment

All soil sampling equipment will be decontaminated before sampling activities are initiated, and between each sample location, by using a potable water/biodegradable-alconox solution wash, followed by a potable water rinse (i.e., bucket wash/rinse).

Upon completion of sample collection, each boring will be backfilled using the soil associated with the sampled location. If excess boring space remains that could be considered a tripping hazard, clean fill material will be used to complete boring abandonment.

5.0 Quality Assurance/Quality Control (QA/QC) Samples

As part of the storage pad soil sampling event, the field team expects to collect 23 soil samples from the locations identified in Figures 3 and 4.

As part of the incinerator area soil sampling event, the field team expects to collect six surficial soils samples from six to-be-identified sample locations.

In addition to the above field soil samples, the following quality assurance/quality controls samples will be collected for each sampling event:

- Field duplicate samples and project-specific matrix spike/matrix spike duplicate (MS/MSD) samples will be collected at the rate of 1 per 20 soil samples.
- Equipment blanks will be collected at the rate of 1 per sampling day per sample matrix.
- Trip blank samples will be submitted with each cooler containing samples for volatile organic analysis.

6.0 Project-Specific Health and Safety

A project-specific health and safety plan (HASP) addendum will be created for this soil sampling field effort. The HASP addendum will include the following:

- Summary of activities and tasks to be performed
- Personal protective equipment (PPE) associated with each task
- Discussion of potential hazards including, but not limited to, chemical, biological, heat/cold stress.
- Identification and route to nearest hospital/emergency-medical service
- Pertinent contacts

It is anticipated that all boring and sampling activities will be performed in Modified Level D PPE. Modified Level D PPE includes the following:

- Tyvek® or Polycoated Tyvek® suit (based on potential for liquid contact)
- Rubber, safety-toed boots or leather safety-toed boots (as determined by the Site Safety Officer)
- Hardhat
- Nitrile gloves (may be worn with leather outer gloves)
- Latex inner gloves
- Leather or work appropriate gloves used for all other general tasks
- Hearing protection as required
- Safety glasses with side shields

Additional safety related information is as follows:

- Air monitoring will be performed by the AECOM field representative
- An air monitoring photoionization detector (PID), HASP document, and this Soil Sampling Work Plan will be available for field team to review prior to initiation of field activities.
- A review of the HASP will be performed with the field team prior to initiation of fieldwork.
- A short health and safety toolbox meeting will be performed with the field team each day.

7.0 Project-Specific Waste Management

Wastes associated with this soil sampling project will be handled as follows:

- Excess soils will be returned to the boring that the soils came from.
- The decontamination wash-solution will be assessed and disposed of properly by the facility.
- Used PPE will be contained in plastic yard-waste bags and disposed of as industrial waste by the site.

8.0 Schedule

The soil sampling fieldwork is expected to take approximately 1 week to complete. Laboratory analysis will require four weeks to complete after the last sample set has been received by the laboratory. The analytical results obtained will be compared against the CPS. If the CPS is met, no further action will be performed for the soils. If the CPS is not met, further discussion with the agency will occur. The analytical results obtained will be included in the waste storage pad closure document.

It is anticipated that incinerator area soil sampling will be performed in late-2021/early-2022. The soil sampling fieldwork is expected to take about 2 days to complete. Laboratory analysis will require four weeks to complete after the last sample set has been received by the laboratory. The analytical results obtained will be compared against the CPS. If the CPS is met, no further action will be performed for the soils. If the CPS is not met, further discussion with the agency will occur. The analytical results obtained will be included in the incinerator area closure document.

Tables

Table 1
Soil Sample Identification and Locations: Waste Storage Pads and Incinerator Area
DuPont Experimental Station
Wilmington, Delaware

Location ID	Waste Storage Pad Field Sample ID	Waste Storage Pad Location Details	Sample Representation	Depth Interval (ft)	General List of Parameters (see Table 2 for detailed constituent list)
Pad-A-SE	PAD-A-SE-0-0.5	Pad A - near Southeast Corner and Pad A Sump	Pad A SE Corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-A-Sump	PAD-A-Sump-2-3	Pad A - near Southeast Corner and Pad A Sump	Pad A Sump	2.0-3.0	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-A-S-Ctr	PAD-A-S-CTR-0-0.5	Pad A - Center point of south wall	Pad A center area of south wall	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-A/B-S	PAD-AB-S-0-0.5	Situated between Pad A SW Corner and Pad B SE Corner	Corners - Pad A SW and Pad B SW	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-S-Ctr	PAD-B-S-CTR-0-0.5	Pad B - Center point of south wall	Pad A center area of south wall	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-SW	PAD-B-SW-0-0.5	Pad B - Southwest corner	Pad B SW Corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-W-Ctr	PAD-B-W-Ctr-0-0.5	Pad B - Sample location adjacent to sump located adjacent to west wall of Pad B	Pad B center area of west wall	3.0-4.0	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-Sump	PAD-B-SUMP-3-4	Pad B - Sample location adjacent to sump located adjacent to west wall of Pad B	Pad B Sump	3.0-4.0	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-B-NW	PAD-B-NW-0-0.5	Pad B - Northwest corner	Pad B NW Corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(E)-NE	PAD-G-E-NE-0-0.5	Pad G - Storage area to East, Northeast corner of pad	Pad G to East - NE corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(E)-E-Ctr	PAD-G-E-CTR-0-0.5	Pad G - Storage area to East, Center point of eastern side	Pad G to East - Ctr of eastern side	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(E)-SE	PAD-G-E-SE-0-0.5	Pad G - Storage area to East, Southeast corner of pad	Pad G to East - SE corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(S)-SE	PAD-G-S--SE-0-0.5	Pad G - Storage area to South, Southeast corner of pad	Pad G to South - SE corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(S)-S-Ctr	PAD-G-S-CTR-0-0.5	Pad G - Storage area to South, Center point of southern side	Pad G to South - Ctr of southern side	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-G(S)-SW	PAD-G-S-SW-0-0.5	Pad G - Storage area to South, Southwest corner of pad	Pad G to South - SW corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-23-SW	PAD-23-SW-0-0.5	Pad 23 - Southwest Corner	Pad 23 SW Corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-23-S-Ctr	PAD-23-S-CTR-0-0.5	Pad 23 - Center point of south wall	Pad 23 center area of south wall	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad -23/24 sumps	PAD-23-24-Sumps-0-0.5	Situated between Pad 23 sump and Pad 24 sump; base of sumps are at ground surface.	Sumps Pad 23 and 24	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-23/24-S	PAD-23-24-S-0-0.5	Situated between Pad 23 SE Corner and Pad 24 SW Corner	Corners - Pad 23 SE and Pad 24 SW	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-24-S-Ctr	PAD-24-S-CTR-0-0.5	Pad 24 - Center point of south wall	Pad 24 center area of south wall	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-24/24-0-S	PAD-23-24-0-S-0-0.5	Situated between Pad 24 SE Corner and Pad 24-0 SW Corner	Corners - Pad 23 SE and Pad 24 SW	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides

Table 1
Soil Sample Identification and Locations: Waste Storage Pads and Incinerator Area
DuPont Experimental Station
Wilmington, Delaware

Location ID	Waste Storage Pad Field Sample ID	Waste Storage Pad Location Details	Sample Representation	Depth Interval (ft)	General List of Parameters (see Table 2 for detailed constituent list)
Pad-24-0-S-Ctr	PAD-24-0-S-CTR-0-0.5	Pad 24-0 - Center point of south wall	Pad 24-0 center area of south wall	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad-24-0-SE	PAD-24-0-SE-0-0.5	Pad 24-0 SE Corner	Pad 24-0 SE corner	0-0.5	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides
Pad 24-0 Sump	*				
Incinerator Area	Incinerator Area Sample 1 through Sample 6**	Soil sample locations within incinerator area will be identified after completion of incinerator demolition and removal. Five locations will be within the incinerator area, location will be adjacent to the waste chemical/solvent feed container .	Incinerator Area	0-1.0	VOA, SVOA, Metals, Pest., Herb., Carbamates, Cyanides, Dioxins, Furans

* = Due to Access issues (concrete/asphalt to north, east, west, and very low to the ground conduit to the south) a 3-4ft deep sample is not accessible at the Pad 24-0 sump area; no soil sample will be collected.

** = Sample ID of Samples 1 through 6 will be determined when specific locations have been identified.

VOA = Volatile Organic Analysis

SVOA = Semi-Volatile Organic Analysis

Pest. = Pesticides

Herb. = Herbicides

Table 2
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]
Volatiles|SW-846 8260B		
Acetone	67-64-1	670000
Acrylonitrile	107-13-1	1.1
Benzene	71-43-2	5.1
Bromoform	75-25-2	86
Bromomethane	74-83-9	30
Butanone, 2-	78-93-3	190000
Carbon Disulfide	75-15-0	3500
Carbon Tetrachloride	56-23-5	2.9
Chlorobenzene	108-90-7	1300
Chloroethane	75-00-3	57000
Chloroform	67-66-3	1.4
Chloromethane	74-87-3	460
Cyclohexanone	108-94-1	130000
Dibromo-3-chloropropane, 1,2-	96-12-8	0.06
Dibromoethane, 1,2-	106-93-4	0.16
Dibromomethane	74-95-3	99
Dichlorodifluoromethane	75-71-8	370
Dichloroethane, 1,1-	75-34-3	16
Dichloroethane, 1,2-	107-06-2	2
Dichloroethene, 1,1-	75-35-4	1000
Dichloroethene, trans-1,2-	156-60-5	23000
Dichloropropane, 1,2-	78-87-5	11
Dichloropropene, cis-1,3-	10061-01-5	MDL
Dichloropropene, trans-1,3-	10061-02-6	MDL
Dioxane, 1,4-	123-91-1	24
Ethyl Acetate	141-78-6	2600
Ethyl Ether	60-29-7	230000
Ethyl Methacrylate	97-63-2	7600
Ethylbenzene	100-41-4	25
Freon 113	76-13-1	28000
Methacrylonitrile	126-98-7	100
Methyl Iodide	74-88-4	MDL
Methyl Methacrylate	80-62-6	19000
Methyl-2-pentanone, 4-	108-10-1	140000
Methylene Chloride	75-09-2	1000
Pentachloroethane	76-01-7	36
Tetrachloroethane, 1,1,1,2-	630-20-6	8.8
Tetrachloroethane, 1,1,1,2-	79-34-5	2.7
Tetrachloroethene	127-18-4	100
Toluene	108-88-3	47000
Trichloroethane, 1,1,1-	71-55-6	36000
Trichloroethane, 1,1,2-	79-00-5	5

Table 2
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]
Trichloroethene	79-01-6	6
Trichlorofluoromethane	75-69-4	350000
Vinyl Chloride	75-01-4	1.7
Xylene (Total)	1330-20-7	2500
Semi-Volatiles SW-846 B 8270C		
Acetophenone	98-86-2	120,000.00
Acetylaminofluorene, 2-	53-96-3	0.6
Aniline	62-53-3	400
Anthracene	120-12-7	230000
Benzo(a)anthracene	56-55-3	21
Benzo(a)pyrene	50-32-8	2.1
bis(2-Chloroethoxy)methane	111-91-1	2500
bis(2-Chloroethyl)ether	111-44-4	1
bis(2-Chloroisopropyl)ether	39638-32-9	MDL
bis(2-Ethylhexyl)phthalate	117-81-7	160
Bromophenyl-phenylether, 4-	101-55-3	MDL
Butylbenzylphthalate	85-68-7	1200
Chloro-3-methylphenol, 4-	59-50-7	82000
Chloroaniline, 4-	106-47-8	11
Chloronaphthalene, 2-	91-58-7	60000
Chlorophenol, 2-	95-57-8	5800
Chrysene	218-01-9	2100
Dibenz(a,h)anthracene	53-70-3	2.1
Dichlorobenzene, 1,2-	95-50-1	9300
Dichlorobenzene, 1,3-	541-73-1	MDL
Dichlorobenzene, 1,4-	106-46-7	11
Dichlorophenol, 2,4-	120-83-2	2500
Dichlorophenol, 2,6-	87-65-0	MDL
Diethylphthalate	84-66-2	660000
Dimethylphenol, 2,4-	105-67-9	16000
Dimethylphthalate	131-11-3	MDL
Di-n-butylphthalate	84-74-2	82000
Dinitrophenol, 2,4-	51-28-5	1600
Dinitrotoluene, 2,4-	121-14-2	7.4
Dinitrotoluene, 2,6	606-20-2	1.5
Di-n-octylphthalate	117-84-0	8200
Fluoranthene	206-44-0	30000
Hexachlorobenzene	118-74-1	0.96
Hexachlorobutadiene	87-68-3	5.3
Hexachlorocyclopentadiene	77-47-4	7.5
Hexachloroethane	67-72-1	8
Hexachloropropene	1888-71-7	MDL
Indeno(1,2,3-cd)pyrene	193-39-5	21

Table 2
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]
Isosafrole	120-58-1	MDL
Methapyrilene	91-80-5	MDL
Methylcholanthrene, 3-	56-49-5	0.1
Methylenebis(2-chloroanil, 4,4'-	101-14-4	23
Methylphenol, 2-	95-48-7	41000
Methylphenol, 4-	106-44-5	82000
Naphthalene	91-20-3	17
Nitroaniline, 4-	100-01-6	110
Nitrobenzene	98-95-3	22
Nitro-o-toluidine, 5-	99-55-8	260
Nitrophenol, 4-	100-02-7	MDL
N-Nitrosodiethylamine	55-18-5	0.015
N-Nitrosodi-n-butylamine	924-16-3	0.46
N-Nitroso-di-n-propylamine	621-64-7	0.33
N-Nitrosopiperidine	100-75-4	0.24
N-Nitrosopyrrolidine	930-55-2	1.1
Pentachlorobenzene	608-93-5	930
Pentachloronitrobenzene	82-68-8	13
Pentachlorophenol	87-86-5	4
Phenacetin	62-44-2	1000
Phenanthrene	85-01-8	MDL
Phenol	108-95-2	250000
Pronamide	23950-58-5	62000
Pyrene	129-00-0	23000
Pyridine	110-86-1	1200
Safrole	94-59-7	10
Tetrachlorobenzene, 1,2,4,5-	95-94-3	350
Trichlorobenzene, 1,2,4-	120-82-1	110
Trichlorophenol, 2,4,5-	95-95-4	82000
Trichlorophenol, 2,4,6-	88-06-2	210
Miscellaneous|SW-846 8015B		
n-Butyl Alcohol	71-36-3	120,000.00
Isobutanol	78-83-1	350000
Methanol	67-56-1	1200000
Carbamates|SW-846 8318		
Carbaryl	63-25-2	82,000.00
Carbofuran	1563-66-2	4,100.00
Methiocarb	2032-65-7	MDL
Methomyl	16752-77-5	21000
Oxamyl	23135-22-0	21000
Herbicides|SW-846 8151A		
2,4-D	94-75-7	9600
2,4,5-TP	93-72-1	6600

Table 2
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]
Pesticides/PCBs|SW-846 8081A		
Alpha BHC	319-84-6	0.36
Alpha Chlordane	5103-71-9	MDL
Beta BHC	319-85-7	1.3
Chlordane	57-74-9	MDL
Delta BHC	319-86-8	MDL
Endosulfan I	959-98-8	MDL
Endosulfan II	33213-65-9	MDL
Endosulfan Sulfate	1031-07-8	4900
Endrin	72-20-8	250
Gamma BHC - Lindane	58-89-9	2.5
Gamma Chlordane	5103-74-2	MDL
Heptachlor	76-44-8	0.63
Heptachlor	76-44-8	0.63
Heptachlor Epoxide	1024-57-3	0.33
Heptachlor Epoxide	1024-57-3	0.33
Methoxychlor	72-43-5	4100
Methoxychlor	72-43-5	4100
o,p-DDD	53-19-0	MDL
o,p-DDE	3424-82-6	MDL
o,p-DDT	789-02-6	MDL
p,p-DDD	72-54-8	9.6
p,p-DDE	72-55-9	9.3
p,p-DDT	50-29-3	8.5
Toxaphene	8001-35-2	2.1
Metals | SW-846 6010B		
Arsenic	7440-38-2	3
Barium	7440-39-3	220,000.00
Cadmium	7440-43-9	980
Calcium	7440-70-2	MDL
Chromium	7440-47-3	MDL
Lead	7439-92-1	800
Nickel	7440-02-0	22000
Selenium	7782-49-2	5800
Silver	7440-22-4	5800
Metals|SW-846 7470A		
Mercury	7439-97-6	46

Table 2
Analytes and Closure Performance Standards
DuPont Experimental Station
Wilmington, Delaware

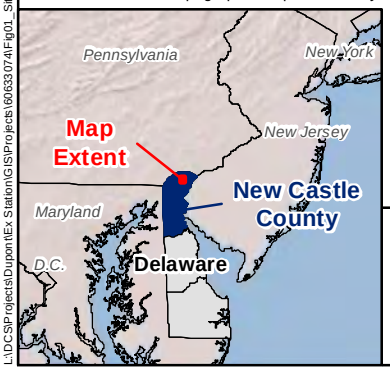
Analyte Name	Cas No.	Closure Performance Standard (CPS) - Soil (mg/kg)[1]
Wet Chemistry|SW-846 9012A		
Amenable Cyanide	n.a.	MDL
Total Cyanide	57-12-5	150
Wet Chemistry|SM 2540 G-1997/2011		
Moisture	n.a.	MDL
Dioxins | SW-846 8290A[2]		
Hexachlorodibenzo-p-dioxin, Mixture	34465-46-8	0.00047
TCDD, 2,3,7,8-	1746-01-6	0.000022
Furans | SW-846 8290A[2]		
Dibenzofuran	132-64-9	1000
Furan	110-00-9	1000
Tetrahydrofuran	109-99-9	94000

1 - CPS = EPA Industrial Risk Screening Level (RSL). Where RSL values are not available the Method Detection Limit (MDL) will be used.

2 - Dioxin and Furan analysis are associated with the Incinerator Area soils only.

Figures

Source: DRG 1:24K Topographic maps created by USGS.



AECOM
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4051 Ogletown Road
Newark, DE 19713

N
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S

0 1,000 2,000
Feet
1 inch = 2,000 feet

MAP FORMATTED FOR "A" (8.5" X 11") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

SITE LOCATION MAP

INCINERATOR CLOSURE PROJECT
DUPONT EXPERIMENTAL STATION
WILMINGTON, DE

TASK NUMBER:	PROJECT NUMBER:
20004	60633074
DESIGNED BY:	DATE:
M.LAYTON	6/15/2020
DRAWN BY:	FIGURE NUMBER:
M.LAYTON	1
DATA QUALITY CHECK BY:	
P.CHEN	

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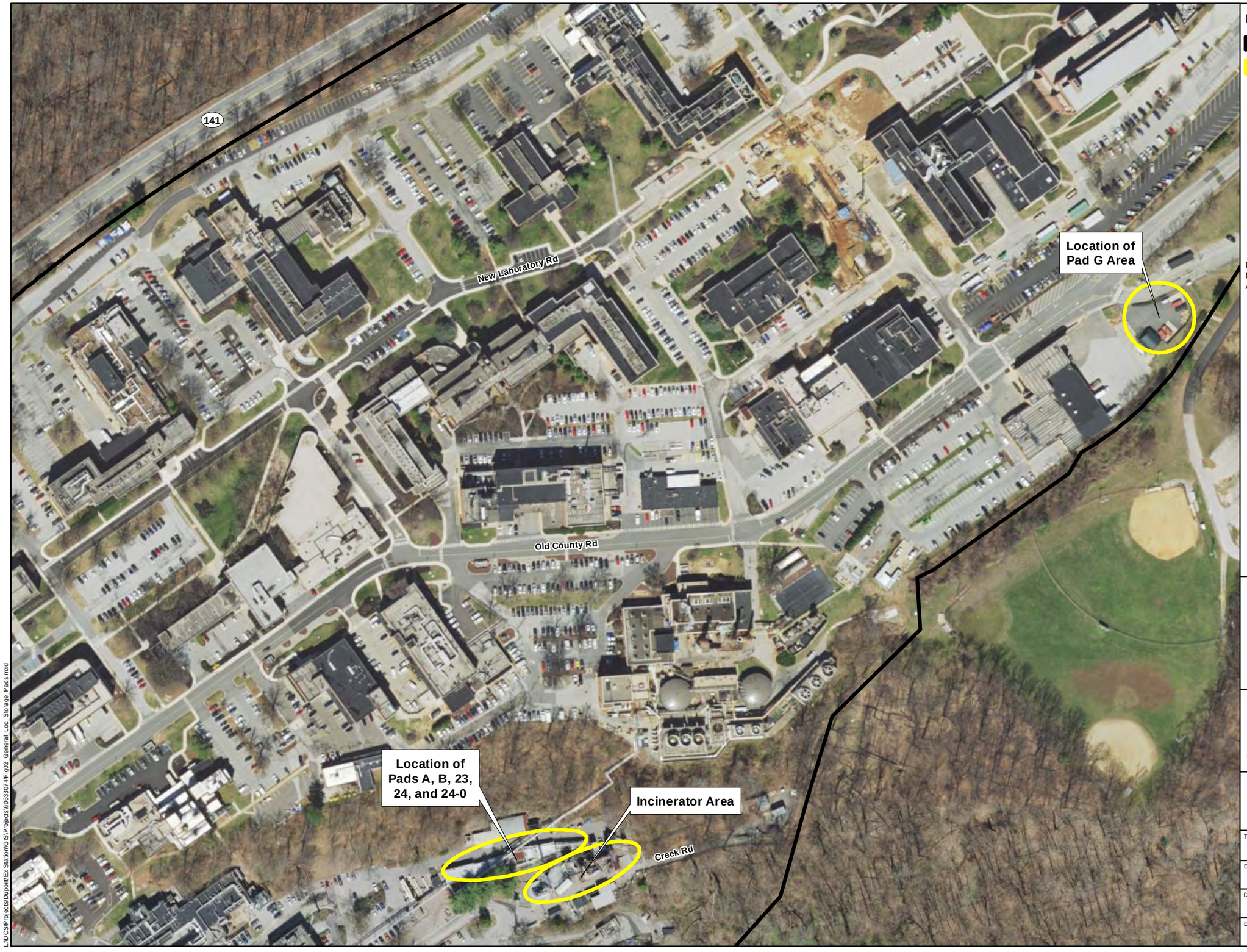

LEGEND

- PROPERTY BOUNDARY
- GENERAL LOCATION OF PAD AND INCINERATOR AREA

Notes:
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

N
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0 175 350
Feet
1 inch = 175 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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GENERAL LOCATION OF STORAGE PADS AND INCINERATOR AREA

INCINERATOR CLOSURE PROJECT
DUPONT EXPERIMENTAL STATION
WILMINGTON, DE

TASK NUMBER: 20004	PROJECT NUMBER: 60633074
DESIGNED BY: P.CHEN	DATE: 6/16/2020
DRAWN BY: M.LAYTON	FIGURE NUMBER: 2
DATA QUALITY CHECK BY: P.CHEN	

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LEGEND

- SUMP (LOCATION APPROXIMATE)
- PROPOSED SOIL SAMPLE LOCATION
- WASTE STORAGE PAD (OUTLINE APPROXIMATE)

Notes:

Waste Storage Pad 24-0 includes the Primary Pumphouse.
^ = Due to lack of access, a soil sample to base of sump will not be collected.

Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

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0 12.5 25 50
Feet
1 inch = 25 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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PADS A, B, 23, 24, 24-0 PROPOSED SOIL SAMPLE LOCATIONS FOR PAD CLOSURE

INCINERATOR CLOSURE PROJECT
DUPONT EXPERIMENTAL STATION
WILMINGTON, DE

TASK NUMBER: 20004	PROJECT NUMBER: 60633074
DESIGNED BY: P.CHEN	DATE: 7/14/2020
DRAWN BY: M.LAYTON	FIGURE NUMBER: 3
DATA QUALITY CHECK BY: P.CHEN	

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LEGEND

- PROPOSED SOIL SAMPLE LOCATION
- WASTE STORAGE PAD (OUTLINE APPROXIMATE)

Notes:
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

N
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0 12.5 25 50
Feet
1 inch = 25 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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PAD G
PROPOSED SOIL SAMPLE LOCATIONS FOR PAD CLOSURE

INCINERATOR CLOSURE PROJECT
DUPONT EXPERIMENTAL STATION
WILMINGTON, DE

TASK NUMBER: 20004	PROJECT NUMBER: 60633074
DESIGNED BY: P.CHEN	DATE: 6/17/2020
DRAWN BY: M.LAYTON	FIGURE NUMBER: 4
DATA QUALITY CHECK BY: P.CHEN	

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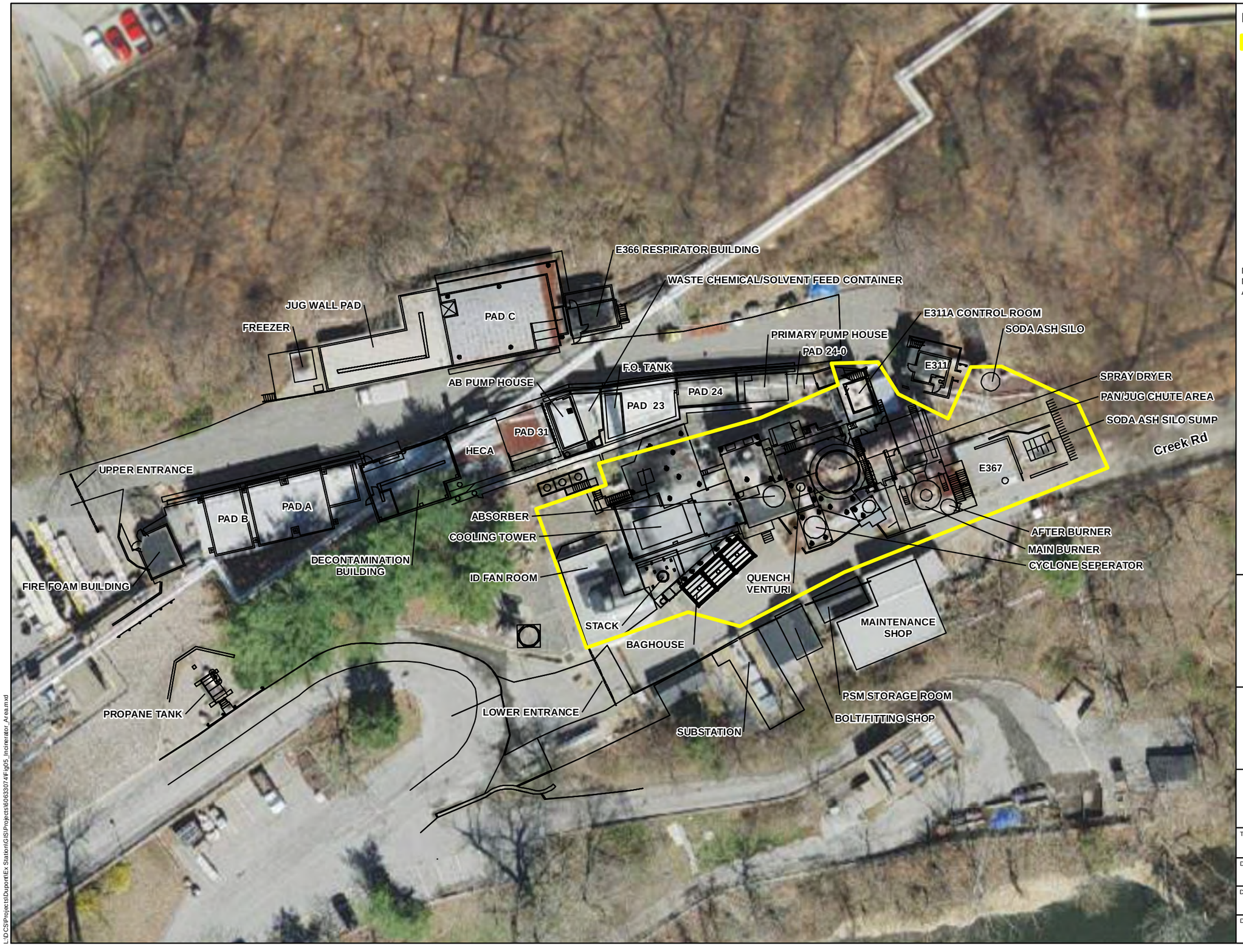

LEGEND

INCINERATOR AREA

Notes:
Map Projection: Delaware State Plane Feet NAD 83
Aerial Source: Surdex Corp 2017

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0 20 40 80
Feet
1 inch = 40 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

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Newark, DE 19713

IDENTIFICATION OF INCINERATOR AREA

INCINERATOR CLOSURE PROJECT
DUPONT EXPERIMENTAL STATION
WILMINGTON, DE

TASK NUMBER: 20004	PROJECT NUMBER: 60633074
DESIGNED BY: P.CHEN	DATE: 7/23/2020
DRAWN BY: M.LAYTON	FIGURE NUMBER: 5
DATA QUALITY CHECK BY: P.CHEN	

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Appendix F

Soil Sample Lithological Description

PAD-G-E-NE-0-0.5

- 8/27/2020-Sample Time 8:40 AM
  Boring Depth 0”-16”
  (0”-16”) Large diameter gravel near surface fining downward to smaller diameter gravel, fine soil matrix.
  Finer Material = SILT with SAND and pebbles and gravel, dry
  Color of fines =Brown to grey brown 7.5YR5/1 to 6/1
  PID= 0.0 ppm

PAD-G-E-Ctr-0-0.5

- 8/27/2020- Sample Time 8:45 AM
  Boring Depth 0”-16”
  (0”-16”) Large diameter gravel near surface fining downward to smaller diameter gravel, fine soil matrix.
  Finer Material = SILT with SAND and pebbles and gravel, dry
  Color of fines =Brown to grey brown 7.5YR5/1 to 6/1
  PID= 0.0 ppm

PAD-G-S-SE-0-0.5

- 8/27/2020-Sample Time 8:47 AM
  Boring Depth 0”-18”
  (0”-18”) Gravel up top down to 18 inches. Base of boring = SILT with SAND and gravel and pebbles
  Large diameter gravel near surface fining downward to smaller diameter gravel, fine soil matrix.
  Color = Dark Brown 7.5YR3/1
  PID= 0.0 ppm

PAD-G-E-SE-0-0.5

- 8/27/2020-Sample Time 8:50 AM
  Boring Depth 0”-16”
  (0”-16”) Large diameter gravel near surface fining downward to smaller diameter gravel, fine soil matrix.
  Finer Material = SILT with SAND and pebbles and gravel, dry
  Color of fines =Brown to grey brown 7.5YR5/1 to 6/1
  PID= 0.0 ppm

PAD-G-S-Ctr-0-0.5

- 8/27/2020-Sample Time 9:10 AM
  Boring Depth 0”-18”
  (0”-18”) Gravel up top down to 18 inches. Base of boring = SILT with SAND and gravel and pebbles
  Large diameter gravel near surface fining downward to smaller diameter gravel, fine soil matrix.
  Color = Dark Brown 7.5YR3/1
  PID= 0.0 ppm

PAG-G-SW-0-0.5 (Dup also taken)

- 8/27/2020-Sample Time 9:30 AM
  Boring Depth 0”-11”
  (0”- 6”) = Gravel
  (6” – 11”) = SILT and CLAY with fine SAND and pebbles, damp to moist
  Color= Light Brown to Tan with Reddish Orange tint 7.5YR6/4
  PID=0 ppm.

PAD-B-NW-0-0.5

- 8/27/2020-Sample Time 11:15 AM
  Boring Depth 0”-14”
  (0”-7”) Gravel
  (7”-14”) Very fine SAND and SILT, some pebble, moist
  Color= Brown Tan with Orange tint 5YR 6/6
  PID= 0.0 ppm

PAD-B-W-Ctr-0-0.5

- 8/27/2020-Sample Time 11:25 AM
  Boring Depth 0”-12”
  (0”-6’’) Gravel
  (6”-12”) SILT and fine SAND, damp
  Color-Brown to Dark Brown 7.5YR4/2
  PID= 0.0 ppm

PAD-B-SUMP-1.5-2.0

- 8/27/2020-Sample Time 11:30 AM
  Sample Interval 18”-24”
  (18”-24”)SILT with fine SAND, some pebble
  Color=Brown to Dark Brown 7.5YR4/2
  PID= 0.0 ppm

PAD-B-SW-0-0.5

- 8/27/2020-Sample Time 11:45 AM
  Boring Depth 0”-9”
  (0”-4”) Gravel
  (4”-9”) SILT, some pebble, damp
  Color= Brown 7.5YR4/2
  PID= 0.0 ppm

PAD-A-SE-0-0.5

- 8/27/2020-Smaple Time 12:15 PM
  Boring Depth 0”-6”
  (0”-6”) SILT and fine SAND, some pebbles, damp
  Color=Brown 7.5YR6/2
  PID= 0.0 ppm

PAD-A-SUMP-2-3

- 8/27/2020-Sample Time 12:30 PM
  Sample Interval 24” – 32”
  (24”-32”) SILT, trace pebbles, dry to damp
  Color= Brown with Orange tint 5YR5/6
  PID= 0.0 ppm

PAD-A-S-Ctr-0-0.5

- 8/27/2020 Sample Time-12:45 PM
  Borehole depth 0”-6”
  (0”-6”) SILT, trace pebbles, some to trace organic roots, dry possibly damp
  Color= Brown 5YR5/4
  PID= 0.0 ppm

PAD-AB-S-0-0.5

- 8/27/2020 Sample Time- 12:55 PM
  Borehole depth 0”-6”
  (0”-6”) SILT, trace pebbles, some organic roots, dry possibly damp
  Color= Brown 5YR5/4
  PID= 0.0 ppm

PAD-B-S-Ctr-0-0.5

- 8/27/2020 Sample Time- 13:15 PM
  Borehole depth 0”-6”
  (0”-6”) SILT, trace pebbles, some organic roots, dry possibly damp
  Color= Brown 5YR5/4
  PID= 0.0 ppm

PAD-23-24-SUMP-0-0.5 (MS/MSD/Dup Taken)

- 8/28/2020 Sample Time 8:00 AM
  Borehole depth 0”-6”
  (0”-6”) SILT, some pebbles, trace to some gravel (0.5”-1”) damp to dry
  PID-0.0 ppm

PAD-23-SW-0-0.5

- 8/28/2020 Sample Time-8:15 AM
  Borehole depth 0”-6”
  (0”-6”) SILT with pebbles and gravel (0.5-1 inch), dry
  Color= Brown to Dark Brown 7.5YR3/2
  PID= 0.0 ppm

PAD-23-S-Ctr-0-0.5

- 8/28/2020 Sample Time- 8:30 AM
  Borehole depth 0”-6”
  (0”-6”) CLAY, some SAND, trace pebbles, damp to moist
  Color= Tan Brown with Beige Yellow tint 7.5YR5/6
  PID= 0.0 ppm

PAD-23-24-S-0-0.5

- 8/28/2020 Sample Time- 9:00 AM
  Borehole depth 0”-6”
  (0”-6”) SILT, with pebbles and gravel (0.5”-1”), dry
  Color= Brown to Dusky Brown 7.5YR/3/2
  PID= 0.0 ppm

PAD-24-S-Ctr-0-0.5

- 8/28/2020 Sample Time- 10:00 AM
  Borehole depth 0”-6”
  (0”-6”) SILT, with pebbles and gravel (0.5”-2.5”), some CLAY
  Color= Brown 7.5YR5/3
  PID=0.0 ppm

PAD-24-24-0-S-0-0.5

- 8/28/2020 Sample Time- 10:15 AM
  Borehole depth 0”-6”
  (0”-6”) SILT, with pebbles and gravel (0.5”-2.5”), some CLAY
  Color= Brown 7.5YR5/3
  PID=0.0 ppm

PAD-24-0-S-Ctr-0-0.5

- 8/28/2020 Sample Time- 10:30 AM
  Borehole depth 0”-6”
  (0”-6”) SILT trace CLAY, with pebbles and gravel (0.5”-2.5”)
  Color= Dark Brown to Dusky Brown 7.5YR4/1
  PID=0.0 ppm

PAD-24-0-SE-0-0.5

- 8/28/2020 Sample Time- 10:45 AM
  Borehole depth 0”-6”
  (0”-6”) Slit and CLAY, with pebbles and gravel, damp to moist
  Color=Brown Tan 7.5YR4/4
  PID= 0.0 ppm

Appendix G

Soil Laboratory Analytical Results

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-12366-1
Client Project/Site: Experimental Station
Revision: 1

For:
DuPont Specialty Products USA LLC
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom

Authorized for release by:
12/11/2020 12:30:27 PM

Dorothy Coplan, Project Manager
(717)556-4611
Dorothy.Coplan@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Dorothy Coplan
Project Manager
12/11/2020 12:30:27 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-12366-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-12366-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 9/30/2020. The report (revision 1) is being revised due to: Remove non-amenable cyanide from report per client request.

Receipt
The samples were received on 8/28/2020 5:34 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 6.7º C and 12.1º C.

Receipt Exceptions

One or more containers for the following sample was received broken or leaking: PAD-EB2-082820: (1) 40-mL HCl glass vial. Sufficient volume remians to run all requested methods.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-40536 recovered above the upper control limit for Bromoform, Freon 113 Carbon disulfide, Isobutyl alcohol and Pentachloroethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: The continuing calibration verification (CCV) analyzed in 410-41030 was outside the method criteria for the following analyte(s): 1,1-Dichloroethene, Freon 113, Carbon disulfide, Methyl iodide, and trans-1,2-Dichloroethene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to the nature of the sample matrix: PAD-23-SW-0-0.5 (410-12366-3). Elevated reporting limits (RLs) are provided.

Method 8270D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 410-40483 recovered outside control limits for the following analyte(s): 3-Methylcholanthrene. The stated control limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Method 8270D: The laboratory control sample (LCS) for preparation batch 410-40982 recovered outside control limits for several analytes. The sample was re-extracted outside the method required holding time and the QC was within acceptance limits. The data is reported from the initial trial.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 531.1: The laboratory control sample (LCS) for preparation batch 410-40377 and analytical batch 410-40400 recovered outside control limits for the following analytes: Carbofuran and Oxamyl. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method 8015B: The continuing calibration verification (CCVRT) associated with batch 410-41600 recovered above the upper control limit for Acetone on the confirmation column. The samples associated with this CCV were non-detects therefore, the data have been reported. The associated sample is impacted: PAD-EB2-082820 (410-12366-11).

Job ID: 410-12366-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 15 %). When applying the evaluation to whole number, the check passes the criteria with a value of 15.1 % Drift for methanol in the CCVRT.

Method 8015B: The continuing calibration verification (CCV) associated with batch 410-41600 recovered above the upper control limit for Methanol on the confirmation column and 1-Butanol on the primary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: PAD-23-24-SUMPS-0-0.5 (410-12366-1), PAD-23-24-SUMPS-0-0.5 (410-12366-1[MS]), PAD-23-24-SUMPS-0-0.5 (410-12366-1[MSD]), PAD-23-24-SUMPS-0-0.5DUP (410-12366-2), PAD-23-SW-0-0.5 (410-12366-3), PAD-23-S-CTR-0-0.5 (410-12366-4), PAD-23-24-S-0-0.5 (410-12366-5), PAD-24-S-CTR-0-0.5 (410-12366-6), PAD-24-24-0-S-0-0.5 (410-12366-7), PAD-24-0-S-CTR-0-0.5 (410-12366-8) and PAD-24-0-SE-0-0.5 (410-12366-9).

Method 8015B: The continuing calibration verification (CCVRT) associated with batch 410-41600 recovered above the upper control limit for acetone on the confirmation column. Sample surrogates are all within control limits and bracketing CCV's are also within control limits for acetone. Associated samples were non-detect for all compounds. The associated samples are impacted: PAD-23-24-SUMPS-0-0.5 (410-12366-1), PAD-23-24-SUMPS-0-0.5 (410-12366-1[MS]), PAD-23-24-SUMPS-0-0.5 (410-12366-1[MSD]), PAD-23-24-SUMPS-0-0.5DUP (410-12366-2), PAD-23-SW-0-0.5 (410-12366-3), PAD-23-S-CTR-0-0.5 (410-12366-4), PAD-23-24-S-0-0.5 (410-12366-5), PAD-24-S-CTR-0-0.5 (410-12366-6), PAD-24-24-0-S-0-0.5 (410-12366-7), PAD-24-0-S-CTR-0-0.5 (410-12366-8) and PAD-24-0-SE-0-0.5 (410-12366-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8081B: The surrogate recovery for the LCS and LCSD associated with preparation batch 410-41209 and analytical batch 410-41344 were outside control limits. Recoveries for all target analytes were within control limits. The data is reported.

Method 8081B: Surrogate recovery for the following samples were outside control limits: PAD-23-24-S-0-0.5 (410-12366-5) and PAD-24-24-0-S-0-0.5 (410-12366-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following samples were diluted due to the nature of the sample matrix : PAD-23-24-S-0-0.5 (410-12366-5), PAD-24-S-CTR-0-0.5 (410-12366-6) and PAD-24-24-0-S-0-0.5 (410-12366-7). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8081B: Surrogate recovery for the following sample was outside control limits: PAD-EB2-082820 (410-12366-11). Re-preparation and/or re-analysis was not performed as the holding time had expired.

Method 8151A: The laboratory control duplicate sample (LCSD) for preparation batch 410-40403 and analytical batch 410-41924 recovered outside control limits for the following analytes: Silvex (2,4,5-TP) and 2,4-D. A reextraction was unable to be performed within the hold time.

Method 8151A: The laboratory control sample (LCS) for preparation batch 410-43110 and analytical batch 410-43820 recovered below control limits for the following analytes: 2,4-D. The samples were not re-extracted due to hold being exceeded. There were no detections in the samples.

Method 8151A: Surrogate recovery for the following samples were outside control limits: PAD-23-24-SUMPS-0-0.5 (410-12366-1), PAD-23-24-SUMPS-0-0.5DUP (410-12366-2), PAD-24-0-S-CTR-0-0.5 (410-12366-8) and PAD-24-0-SE-0-0.5 (410-12366-9). Evidence of matrix interferences is not obvious. Re-preparation and/or re-analysis was not performed as the holding time had expired.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 9012A: The following samples were analyzed outside of analytical holding time for total cyanide due to a laboratory error.:

Job ID: 410-12366-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

PAD-23-24-SUMPS-0-0.5 (410-12366-1), PAD-23-24-SUMPS-0-0.5 (410-12366-1[DU]), PAD-23-24-SUMPS-0-0.5 (410-12366-1[MS]), PAD-23-24-SUMPS-0-0.5DUP (410-12366-2), PAD-23-SW-0-0.5 (410-12366-3), PAD-23-S-CTR-0-0.5 (410-12366-4), PAD-23-24-S-0-0.5 (410-12366-5), PAD-24-S-CTR-0-0.5 (410-12366-6), PAD-24-24-0-S-0-0.5 (410-12366-7), PAD-24-0-S-CTR-0-0.5 (410-12366-8) and PAD-24-0-SE-0-0.5 (410-12366-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-24-SUMPS-0-0.5 — Lab Sample ID: 410-12366-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.6	J F2 F1	18	5.3	ug/Kg	1	☼	8260C	Total/NA
Chloromethane	0.54	J B	4.5	0.53	ug/Kg	1	☼	8260C	Total/NA
Anthracene	11	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	43		19	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	51		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	53		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	80		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	41		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	13	J	19	7.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	43		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	78		19	3.7	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane (1C)	0.25	J F1	0.92	0.19	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane (1C)	0.34	J F1	0.92	0.28	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDD (2C)	0.38	J F1 p	1.9	0.37	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (1C)	5.4		1.9	0.37	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (1C)	6.1	F1	1.9	0.88	ug/Kg	1	☼	8081B	Total/NA
Arsenic	4.8	F1	0.74	0.25	mg/Kg	2	☼	6020A	Total/NA
Barium	84		0.74	0.34	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.20		0.19	0.093	mg/Kg	2	☼	6020A	Total/NA
Calcium	940		74	28	mg/Kg	2	☼	6020A	Total/NA
Chromium	23	F1	0.74	0.28	mg/Kg	2	☼	6020A	Total/NA
Lead	23		0.37	0.093	mg/Kg	2	☼	6020A	Total/NA
Nickel	14		0.74	0.30	mg/Kg	2	☼	6020A	Total/NA
Silver	0.076	J	0.19	0.075	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.088		0.064	0.027	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP — Lab Sample ID: 410-12366-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	3.8	J	9.2	1.8	ug/Kg	1	☼	8260C	Total/NA
Acetone	200		18	5.5	ug/Kg	1	☼	8260C	Total/NA
Anthracene	10	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	29		19	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	34		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	33		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	56		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	25		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	25		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	48		19	3.7	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane (2C)	0.20	J	0.92	0.19	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDD (1C)	0.45	J	1.9	0.36	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (1C)	4.4		1.9	0.36	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (2C)	2.5	p	1.9	0.87	ug/Kg	1	☼	8081B	Total/NA
Arsenic	4.7		0.89	0.30	mg/Kg	2	☼	6020A	Total/NA
Barium	86		0.89	0.41	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.17	J	0.22	0.11	mg/Kg	2	☼	6020A	Total/NA
Calcium	1300		89	33	mg/Kg	2	☼	6020A	Total/NA
Chromium	26		0.89	0.34	mg/Kg	2	☼	6020A	Total/NA
Lead	23		0.44	0.11	mg/Kg	2	☼	6020A	Total/NA
Nickel	15		0.89	0.36	mg/Kg	2	☼	6020A	Total/NA
Silver	0.17	J	0.22	0.090	mg/Kg	2	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP (Continued) — Lab Sample ID: 410-12366-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.089		0.063	0.026	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-23-SW-0-0.5 — Lab Sample ID: 410-12366-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	74	J	100	20	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	180		100	40	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	200		100	20	ug/Kg	5	☼	8270D	Total/NA
Chrysene	220		100	20	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	410		100	20	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	160		100	20	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	63	J	100	40	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	140		100	20	ug/Kg	5	☼	8270D	Total/NA
Pyrene	440		100	20	ug/Kg	5	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	620	J	1000	400	ug/Kg	5	☼	8270D	Total/NA
alpha-Chlordane (1C)	0.40	J	1.0	0.21	ug/Kg	1	☼	8081B	Total/NA
delta-BHC (1C)	1.8		1.2	0.55	ug/Kg	1	☼	8081B	Total/NA
Endosulfan I (2C)	0.37	J	1.0	0.27	ug/Kg	1	☼	8081B	Total/NA
gamma-BHC (Lindane) (2C)	1.1		1.0	0.25	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane (1C)	0.52	J	1.0	0.30	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (1C)	5.0		2.1	0.40	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (1C)	11		2.1	0.96	ug/Kg	1	☼	8081B	Total/NA
Arsenic	8.2		0.76	0.25	mg/Kg	2	☼	6020A	Total/NA
Barium	100		0.76	0.35	mg/Kg	2	☼	6020A	Total/NA
Cadmium	4.2		0.19	0.096	mg/Kg	2	☼	6020A	Total/NA
Calcium	6100		76	29	mg/Kg	2	☼	6020A	Total/NA
Chromium	52		0.76	0.29	mg/Kg	2	☼	6020A	Total/NA
Lead	48		0.38	0.096	mg/Kg	2	☼	6020A	Total/NA
Nickel	42		0.76	0.31	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.47	J	0.76	0.25	mg/Kg	2	☼	6020A	Total/NA
Silver	0.82		0.19	0.077	mg/Kg	2	☼	6020A	Total/NA
Mercury	5.1		0.72	0.30	mg/Kg	10	☼	7471A	Total/NA
Cyanide, Amenable	0.32	J	0.61	0.22	mg/Kg	1	☼	9012A	Total/NA
Cyanide, Total	0.32	J H	0.61	0.22	mg/Kg	1	☼	9012A	Total/NA

Client Sample ID: PAD-23-S-CTR-0-0.5 — Lab Sample ID: 410-12366-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Chloronaphthalene	8.1	J	40	8.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	12	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	10	J	20	8.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	16	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	26		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	16	J	20	8.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	22		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	31		20	4.0	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane (2C)	0.46	J	1.0	0.21	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (1C)	1.8	J	2.1	0.40	ug/Kg	1	☼	8081B	Total/NA
Arsenic	41		0.90	0.30	mg/Kg	2	☼	6020A	Total/NA
Barium	150		0.90	0.41	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.24		0.22	0.11	mg/Kg	2	☼	6020A	Total/NA
Calcium	1100		90	34	mg/Kg	2	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-23-S-CTR-0-0.5 (Continued) — Lab Sample ID: 410-12366-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	50		0.90	0.35	mg/Kg	2	☼	6020A	Total/NA
Lead	120		0.45	0.11	mg/Kg	2	☼	6020A	Total/NA
Nickel	20		0.90	0.37	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.53	J	0.90	0.29	mg/Kg	2	☼	6020A	Total/NA
Silver	0.13	J	0.22	0.091	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.14		0.073	0.030	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-23-24-S-0-0.5 — Lab Sample ID: 410-12366-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	170		20	5.9	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trichlorobenzene	56	J	58	27	ug/Kg	1	☼	8270D	Total/NA
1,2-Dichlorobenzene	19	J	58	19	ug/Kg	1	☼	8270D	Total/NA
4-Methylphenol	30	J	58	19	ug/Kg	1	☼	8270D	Total/NA
Acetophenone	38	J	58	19	ug/Kg	1	☼	8270D	Total/NA
Anthracene	20		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	41		19	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	51		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	59		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	10	J	19	7.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	130		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	41		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	24		19	7.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	69		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		19	3.9	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane (1C)	4.6		0.97	0.20	ug/Kg	1	☼	8081B	Total/NA
Endosulfan I (1C)	3.1		0.97	0.26	ug/Kg	1	☼	8081B	Total/NA
Endosulfan II (1C)	15		2.7	1.3	ug/Kg	1	☼	8081B	Total/NA
Endrin (1C)	15		2.0	0.79	ug/Kg	1	☼	8081B	Total/NA
Heptachlor (1C)	2.4		0.97	0.36	ug/Kg	1	☼	8081B	Total/NA
Heptachlor epoxide (2C)	7.7		0.97	0.20	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor (1C)	2.7	J p	7.8	2.1	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDD (2C)	8.2		2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane (1C) - DL	14		4.8	1.5	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDE (1C) - DL	23		9.9	1.9	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDT (1C) - DL	36		9.9	4.6	ug/Kg	5	☼	8081B	Total/NA
Arsenic	13		0.88	0.30	mg/Kg	2	☼	6020A	Total/NA
Barium	160		0.88	0.40	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.9		0.22	0.11	mg/Kg	2	☼	6020A	Total/NA
Calcium	3800		88	33	mg/Kg	2	☼	6020A	Total/NA
Chromium	89		0.88	0.34	mg/Kg	2	☼	6020A	Total/NA
Lead	84		0.44	0.11	mg/Kg	2	☼	6020A	Total/NA
Nickel	89		0.88	0.36	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.52	J	0.88	0.29	mg/Kg	2	☼	6020A	Total/NA
Silver	2.2		0.22	0.090	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.79		0.068	0.028	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-24-S-CTR-0-0.5 — Lab Sample ID: 410-12366-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	56	J	58	27	ug/Kg	1	☼	8270D	Total/NA
4-Methylphenol	22	J	58	19	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-24-S-CTR-0-0.5 (Continued)

Lab Sample ID: 410-12366-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetophenone	26	J	58	19	ug/Kg	1	☼	8270D	Total/NA
Anthracene	35		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	73		19	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	91		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Butylbenzylphthalate	300		190	77	ug/Kg	1	☼	8270D	Total/NA
Chrysene	110		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	25		19	7.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	150		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	78		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	37		19	7.7	ug/Kg	1	☼	8270D	Total/NA
Nitrobenzene	50	J	77	31	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	98		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	170		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	92	J	190	77	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane (1C)	4.6	J	4.8	0.97	ug/Kg	5	☼	8081B	Total/NA
Endosulfan I (2C)	4.3	J	4.8	1.3	ug/Kg	5	☼	8081B	Total/NA
Endosulfan II (2C)	17		13	6.3	ug/Kg	5	☼	8081B	Total/NA
gamma-Chlordane (1C)	14		4.8	1.4	ug/Kg	5	☼	8081B	Total/NA
Heptachlor epoxide (2C)	7.4		4.8	0.97	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDE (1C)	30		9.7	1.9	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDT (1C)	75		9.7	4.5	ug/Kg	5	☼	8081B	Total/NA
Arsenic	20		0.81	0.27	mg/Kg	2	☼	6020A	Total/NA
Barium	220		0.81	0.37	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.3		0.20	0.10	mg/Kg	2	☼	6020A	Total/NA
Calcium	4300		81	30	mg/Kg	2	☼	6020A	Total/NA
Chromium	73		0.81	0.31	mg/Kg	2	☼	6020A	Total/NA
Lead	120		0.41	0.10	mg/Kg	2	☼	6020A	Total/NA
Nickel	42		0.81	0.33	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.61	J	0.81	0.26	mg/Kg	2	☼	6020A	Total/NA
Silver	1.9		0.20	0.082	mg/Kg	2	☼	6020A	Total/NA
Mercury	3.4		0.66	0.27	mg/Kg	10	☼	7471A	Total/NA

Client Sample ID: PAD-24-24-0-S-0-0.5

Lab Sample ID: 410-12366-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	45	J	59	27	ug/Kg	1	☼	8270D	Total/NA
Acetophenone	27	J	59	20	ug/Kg	1	☼	8270D	Total/NA
Anthracene	13	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	29		20	7.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	36		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Butylbenzylphthalate	100	J	200	79	ug/Kg	1	☼	8270D	Total/NA
Chrysene	38		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Dimethyl phthalate	130	J	200	79	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	50		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	28		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	11	J	20	7.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	24		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	49		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Endosulfan I (2C)	3.9		0.98	0.26	ug/Kg	1	☼	8081B	Total/NA
Endosulfan sulfate (2C)	2.4		2.0	0.39	ug/Kg	1	☼	8081B	Total/NA
Endrin (1C)	15		2.0	0.80	ug/Kg	1	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-24-24-0-S-0-0.5 (Continued)

Lab Sample ID: 410-12366-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
gamma-Chlordane (2C)	7.9	p	0.98	0.29	ug/Kg	1	☼	8081B	Total/NA
Heptachlor (1C)	1.6		0.98	0.37	ug/Kg	1	☼	8081B	Total/NA
Heptachlor epoxide (2C)	7.5		0.98	0.20	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDD (2C)	12		2.0	0.39	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (2C)	9.7		2.0	0.39	ug/Kg	1	☼	8081B	Total/NA
alpha-Chlordane (2C) - DL	1.3	J	4.9	1.0	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDT (1C) - DL	38		10	4.7	ug/Kg	5	☼	8081B	Total/NA
Arsenic	25		0.86	0.29	mg/Kg	2	☼	6020A	Total/NA
Barium	160		0.86	0.39	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.1		0.22	0.11	mg/Kg	2	☼	6020A	Total/NA
Calcium	4100		86	32	mg/Kg	2	☼	6020A	Total/NA
Chromium	50		0.86	0.33	mg/Kg	2	☼	6020A	Total/NA
Lead	84		0.43	0.11	mg/Kg	2	☼	6020A	Total/NA
Nickel	35		0.86	0.35	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.45	J	0.86	0.28	mg/Kg	2	☼	6020A	Total/NA
Silver	0.90		0.22	0.088	mg/Kg	2	☼	6020A	Total/NA
Mercury	4.0		0.68	0.28	mg/Kg	10	☼	7471A	Total/NA

Client Sample ID: PAD-24-0-S-CTR-0-0.5

Lab Sample ID: 410-12366-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	96		59	28	ug/Kg	1	☼	8270D	Total/NA
1,2-Dichlorobenzene	100		59	20	ug/Kg	1	☼	8270D	Total/NA
Acetophenone	120		59	20	ug/Kg	1	☼	8270D	Total/NA
Anthracene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	50		20	7.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	64		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Butylbenzylphthalate	270		200	79	ug/Kg	1	☼	8270D	Total/NA
Chrysene	80		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	18	J	20	7.9	ug/Kg	1	☼	8270D	Total/NA
Dimethyl phthalate	420		200	79	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	99		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	60		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	35		20	7.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	61		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	95		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	190	J	200	79	ug/Kg	1	☼	8270D	Total/NA
Endosulfan I (2C)	4.1	J p	4.9	1.3	ug/Kg	5	☼	8081B	Total/NA
Endosulfan II (2C)	12	J p	14	6.5	ug/Kg	5	☼	8081B	Total/NA
Endosulfan sulfate (2C)	9.2	J p	10	1.9	ug/Kg	5	☼	8081B	Total/NA
Endrin (1C)	5.6	J	10	4.0	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDE (1C)	3.6	J p	10	1.9	ug/Kg	5	☼	8081B	Total/NA
Arsenic	17		0.65	0.22	mg/Kg	2	☼	6020A	Total/NA
Barium	140		0.65	0.30	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.5		0.16	0.082	mg/Kg	2	☼	6020A	Total/NA
Calcium	5500		65	24	mg/Kg	2	☼	6020A	Total/NA
Chromium	63		0.65	0.25	mg/Kg	2	☼	6020A	Total/NA
Lead	48		0.33	0.082	mg/Kg	2	☼	6020A	Total/NA
Nickel	53		0.65	0.27	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.63	J	0.65	0.21	mg/Kg	2	☼	6020A	Total/NA
Silver	1.5		0.16	0.066	mg/Kg	2	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-24-0-S-CTR-0-0.5 (Continued) — Lab Sample ID: 410-12366-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.1		0.33	0.14	mg/Kg	5	☼	7471A	Total/NA

Client Sample ID: PAD-24-0-SE-0-0.5 — Lab Sample ID: 410-12366-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	51		25	7.5	ug/Kg	1	☼	8260C	Total/NA
Chloromethane	0.81	J B	6.3	0.75	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	2.7	J	6.3	0.63	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.7	J	6.3	0.63	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trichlorobenzene	1200		660	310	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	170	J	220	88	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	250		220	44	ug/Kg	10	☼	8270D	Total/NA
Chrysene	300		220	44	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	420		220	44	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200	J	220	44	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	160	J	220	44	ug/Kg	10	☼	8270D	Total/NA
Pyrene	500		220	44	ug/Kg	10	☼	8270D	Total/NA
Endosulfan I (2C)	4.4	J p	5.4	1.4	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDE (1C)	7.6	J p	11	2.2	ug/Kg	5	☼	8081B	Total/NA
Arsenic	28		0.94	0.32	mg/Kg	2	☼	6020A	Total/NA
Barium	320		0.94	0.43	mg/Kg	2	☼	6020A	Total/NA
Cadmium	6.1		0.24	0.12	mg/Kg	2	☼	6020A	Total/NA
Calcium	5900		94	35	mg/Kg	2	☼	6020A	Total/NA
Chromium	76		0.94	0.36	mg/Kg	2	☼	6020A	Total/NA
Lead	140		0.47	0.12	mg/Kg	2	☼	6020A	Total/NA
Nickel	75		0.94	0.38	mg/Kg	2	☼	6020A	Total/NA
Selenium	1.1		0.94	0.31	mg/Kg	2	☼	6020A	Total/NA
Silver	2.0		0.24	0.096	mg/Kg	2	☼	6020A	Total/NA
Mercury	9.6		1.6	0.66	mg/Kg	20	☼	7471A	Total/NA

Client Sample ID: PAD-TB2-082820 — Lab Sample ID: 410-12366-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	20	0.70	ug/L	1		8260C	Total/NA

Client Sample ID: PAD-EB2-082820 — Lab Sample ID: 410-12366-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.72	J	20	0.70	ug/L	1		8260C	Total/NA
Calcium	730		100	74	ug/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-24-SUMPS-0-0.5

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-1

Matrix: Solid
Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,1,1-Trichloroethane	ND		4.5	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.36	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,1,2-Trichloroethane	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,1-Dichloroethane	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,1-Dichloroethene	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,2,4-Trichlorobenzene	ND	F2 F1	8.9	4.5	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,2-Dibromo-3-Chloropropane	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,2-Dibromoethane	ND		4.5	0.36	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,2-Dichloroethane	ND		4.5	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,2-Dichloropropane	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
1,4-Dioxane	ND	F1	220	33	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
2-Butanone	ND	F1	8.9	1.8	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
4-Methyl-2-pentanone	ND		8.9	0.89	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Acetone	**6.6**	**J F2 F1**	18	5.3	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Acrylonitrile	ND		18	0.71	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Benzene	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Bromoform	ND		8.9	4.5	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Bromomethane	ND		4.5	0.62	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Carbon disulfide	ND		4.5	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Carbon tetrachloride	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Chlorobenzene	ND	F1	4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Chloroethane	ND		4.5	0.89	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Chloroform	ND		4.5	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Chloromethane	**0.54**	**J B**	4.5	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
cis-1,3-Dichloropropene	ND		4.5	0.36	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Dibromomethane	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Dichlorodifluoromethane	ND		4.5	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Ethyl acetate	ND		4.5	0.89	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Ethyl ether	ND		4.5	0.89	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Ethyl methacrylate	ND	F2 F1	4.5	0.89	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Ethylbenzene	ND	F1	4.5	0.36	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Freon 113	ND		8.9	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Methacrylonitrile	ND		45	7.1	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Methyl iodide	ND		4.5	0.36	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Methyl methacrylate	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Methylene Chloride	ND		4.5	1.8	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Pentachloroethane	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Tetrachloroethene	ND	F1	4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Toluene	ND		4.5	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
trans-1,2-Dichloroethene	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
trans-1,3-Dichloropropene	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Trichloroethene	ND		4.5	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Trichlorofluoromethane	ND		4.5	0.62	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Vinyl chloride	ND		4.5	0.53	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1
Xylenes, Total	ND	F1	8.9	1.2	ug/Kg	☼	08/29/20 15:20	09/04/20 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/29/20 15:20*	*09/04/20 15:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*08/29/20 15:20*	*09/04/20 15:48*	*1*

Client Sample ID: PAD-23-24-SUMPS-0-0.5

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-1

Matrix: Solid
Percent Solids: 88.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/29/20 15:20*	*09/04/20 15:48*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/29/20 15:20*	*09/04/20 15:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		41	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
1,2,4-Trichlorobenzene	ND		56	26	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
1,2-Dichlorobenzene	ND		56	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
1,3-Dichlorobenzene	ND		41	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
1,4-Dichlorobenzene	ND		41	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,2'-oxybis[1-chloropropane]	ND		48	22	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,4,5-Trichlorophenol	ND		74	34	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,4,6-Trichlorophenol	ND		63	30	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,4-Dichlorophenol	ND		48	22	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,4-Dimethylphenol	ND		74	34	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,4-Dinitrophenol	ND		1100	370	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,4-Dinitrotoluene	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,6-Dichlorophenol	ND		56	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2,6-Dinitrotoluene	ND		56	26	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2-Acetylaminofluorene	ND		370	110	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2-Chloronaphthalene	ND		37	7.4	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2-Chlorophenol	ND		41	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
2-Methylphenol	ND		74	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
3-Methylcholanthrene	ND		63	30	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
4,4'-Methylene bis(2-chloroaniline)	ND		560	190	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
4-Bromophenyl-phenylether	ND		56	26	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
4-Chloro-3-methylphenol	ND		56	26	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
4-Chloroaniline	ND		190	37	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
4-Methylphenol	ND		56	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
4-Nitroaniline	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
4-Nitrophenol	ND		560	190	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
5-Nitro-o-toluidine	ND		560	190	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Acetophenone	ND		56	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Aniline	ND	F1	560	190	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Anthracene	**11**	**J**	19	3.7	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Benzo[a]anthracene	**43**		19	7.4	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Benzo[a]pyrene	**51**		19	3.7	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Butylbenzylphthalate	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Chrysene	**53**		19	3.7	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Di-n-butyl phthalate	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Di-n-octyl phthalate	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Dibenz(a,h)anthracene	ND		19	7.4	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Diethyl phthalate	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Dimethyl phthalate	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Fluoranthene	**80**		19	3.7	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Hexachlorobenzene	ND		19	7.4	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Hexachlorobutadiene	ND		86	41	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Hexachlorocyclopentadiene	ND	F2 F1	560	220	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Hexachloroethane	ND		190	37	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1

Client Sample ID: PAD-23-24-SUMPS-0-0.5

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-1

Matrix: Solid
Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	ND		370	110	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Indeno[1,2,3-cd]pyrene	**41**		19	3.7	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Isosafrole	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Methapyrilene	ND		5600	1900	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
N-Nitrosodi-n-propylamine	ND		56	26	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
N-Nitrosodi-n-butylamine	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
N-Nitrosodiethylamine	ND		48	22	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
N-Nitrosopiperidine	ND		41	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
N-Nitrosopyrrolidine	ND		56	26	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Naphthalene	**13**	**J**	19	7.4	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Nitrobenzene	ND		74	30	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Pentachlorobenzene	ND		48	22	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Pentachloronitrobenzene	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Phenacetin	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Pentachlorophenol	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Phenanthrene	**43**		19	3.7	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Phenol	ND		41	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Pronamide	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Pyrene	**78**		19	3.7	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Pyridine	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Safrole, Total	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Bis(2-chloroethoxy)methane	ND		41	19	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Bis(2-chloroethyl)ether	ND		56	26	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1
Bis(2-ethylhexyl) phthalate	ND		190	74	ug/Kg	☼	09/04/20 10:00	09/06/20 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*10 - 136*	*09/04/20 10:00*	*09/06/20 15:51*	*1*
2-Fluorobiphenyl (Surr)	*86*		*34 - 117*	*09/04/20 10:00*	*09/06/20 15:51*	*1*
2-Fluorophenol (Surr)	*78*		*18 - 115*	*09/04/20 10:00*	*09/06/20 15:51*	*1*
Nitrobenzene-d5 (Surr)	*78*		*23 - 115*	*09/04/20 10:00*	*09/06/20 15:51*	*1*
p-Terphenyl-d14 (Surr)	*85*		*35 - 135*	*09/04/20 10:00*	*09/06/20 15:51*	*1*
Phenol-d5 (Surr)	*83*		*21 - 112*	*09/04/20 10:00*	*09/06/20 15:51*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1100	230	ug/Kg	☼		09/09/20 01:00	1
Isobutanol (1C)	ND		1100	190	ug/Kg	☼		09/09/20 01:00	1
Methanol (2C)	ND		1100	230	ug/Kg	☼		09/09/20 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*140*		*10 - 179*		*09/09/20 01:00*	*1*
Acetone (2C)	*97*		*10 - 179*		*09/09/20 01:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.92	0.19	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
alpha-Chlordane (1C)	**0.25**	**J F1**	0.92	0.19	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
beta-BHC (1C)	ND		1.1	0.49	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
delta-BHC (1C)	ND		1.1	0.50	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
Endosulfan I (1C)	ND	F1	0.92	0.24	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1

Client Sample ID: PAD-23-24-SUMPS-0-0.5

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-1

Matrix: Solid
Percent Solids: 88.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II (1C)	ND		2.6	1.2	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
Endosulfan sulfate (1C)	ND	F1	1.9	0.37	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
Endrin (1C)	ND	F1	1.9	0.76	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
gamma-BHC (Lindane) (1C)	ND		0.92	0.23	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
gamma-Chlordane (1C)	**0.34**	**J F1**	0.92	0.28	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
Heptachlor (1C)	ND	F1	0.92	0.35	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
Heptachlor epoxide (1C)	ND	F1	0.92	0.19	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
Methoxychlor (1C)	ND	F1	7.5	2.0	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
Toxaphene (1C)	ND		37	16	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
p,p'-DDD (2C)	**0.38**	**J F1 p**	1.9	0.37	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
p,p'-DDE (1C)	**5.4**		1.9	0.37	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
p,p'-DDT (1C)	**6.1**	**F1**	1.9	0.88	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1
Chlordane (n.o.s.) (1C)	ND		19	4.5	ug/Kg	☼	09/10/20 09:25	09/11/20 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*88*		*46 - 152*	*09/10/20 09:25*	*09/11/20 22:25*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*99*		*46 - 152*	*09/10/20 09:25*	*09/11/20 22:25*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*84*		*19 - 136*	*09/10/20 09:25*	*09/11/20 22:25*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*79*		*19 - 136*	*09/10/20 09:25*	*09/11/20 22:25*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	F1	1.9	0.83	ug/Kg	☼	09/11/20 18:54	09/15/20 10:58	1
2,4-D (1C)	ND	F1 *	40	13	ug/Kg	☼	09/11/20 18:54	09/15/20 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*21*	*X*	*27 - 136*	*09/11/20 18:54*	*09/15/20 10:58*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*19*	*X*	*27 - 136*	*09/11/20 18:54*	*09/15/20 10:58*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 02:21	20
Carbofuran	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 02:21	20
Methiocarb	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 02:21	20
Methomyl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 02:21	20
Oxamyl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 02:21	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*77*		*27 - 131*	*09/03/20 23:16*	*09/10/20 02:21*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.8**	**F1**	0.74	0.25	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2
Barium	**84**		0.74	0.34	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2
Cadmium	**0.20**		0.19	0.093	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2
Calcium	**940**		74	28	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2
Chromium	**23**	**F1**	0.74	0.28	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2
Lead	**23**		0.37	0.093	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2
Nickel	**14**		0.74	0.30	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2

Client Sample ID: PAD-23-24-SUMPS-0-0.5

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-1

Matrix: Solid
Percent Solids: 88.6

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.74	0.24	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2
Silver	**0.076**	**J**	0.19	0.075	mg/Kg	☼	08/31/20 08:29	09/15/20 18:25	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.088**		0.064	0.027	mg/Kg	☼	08/31/20 09:35	08/31/20 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.56	0.20	mg/Kg	☼		09/14/20 10:29	1
Cyanide, Total	ND	H	0.57	0.21	mg/Kg	☼	09/11/20 13:03	09/14/20 10:29	1
Percent Moisture	**11.4**		1.0	1.0	%			09/01/20 16:16	1
Percent Solids	**88.6**		1.0	1.0	%			09/01/20 16:16	1

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-2

Matrix: Solid
Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,1,1-Trichloroethane	ND		4.6	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.37	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,1,2-Trichloroethane	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,1-Dichloroethane	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,1-Dichloroethene	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,2,4-Trichlorobenzene	ND		9.2	4.6	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,2-Dibromo-3-Chloropropane	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,2-Dibromoethane	ND		4.6	0.37	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,2-Dichloroethane	ND		4.6	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,2-Dichloropropane	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
1,4-Dioxane	ND		230	34	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
2-Butanone	**3.8**	**J**	9.2	1.8	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
4-Methyl-2-pentanone	ND		9.2	0.92	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Acetone	**200**		18	5.5	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Acrylonitrile	ND		18	0.73	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Benzene	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Bromoform	ND		9.2	4.6	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Bromomethane	ND		4.6	0.64	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Carbon disulfide	ND		4.6	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Carbon tetrachloride	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Chlorobenzene	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Chloroethane	ND		4.6	0.92	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Chloroform	ND		4.6	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Chloromethane	ND		4.6	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
cis-1,3-Dichloropropene	ND		4.6	0.37	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Dibromomethane	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Dichlorodifluoromethane	ND		4.6	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Ethyl acetate	ND		4.6	0.92	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Ethyl ether	ND		4.6	0.92	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-2

Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		4.6	0.92	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Ethylbenzene	ND		4.6	0.37	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Freon 113	ND		9.2	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Methacrylonitrile	ND		46	7.3	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Methyl iodide	ND		4.6	0.37	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Methyl methacrylate	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Methylene Chloride	ND		4.6	1.8	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Pentachloroethane	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Tetrachloroethene	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Toluene	ND		4.6	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
trans-1,2-Dichloroethene	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
trans-1,3-Dichloropropene	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Trichloroethene	ND		4.6	0.46	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Trichlorofluoromethane	ND		4.6	0.64	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Vinyl chloride	ND		4.6	0.55	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1
Xylenes, Total	ND		9.2	1.3	ug/Kg	☼	08/29/20 15:20	09/04/20 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/29/20 15:20*	*09/04/20 17:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/29/20 15:20*	*09/04/20 17:40*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/29/20 15:20*	*09/04/20 17:40*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/29/20 15:20*	*09/04/20 17:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		41	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
1,2,4-Trichlorobenzene	ND		56	26	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
1,2-Dichlorobenzene	ND		56	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
1,3-Dichlorobenzene	ND		41	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
1,4-Dichlorobenzene	ND		41	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,2'-oxybis[1-chloropropane]	ND		48	22	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,4,5-Trichlorophenol	ND		74	33	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,4,6-Trichlorophenol	ND		63	30	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,4-Dichlorophenol	ND		48	22	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,4-Dimethylphenol	ND		74	33	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,4-Dinitrophenol	ND		1100	370	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,4-Dinitrotoluene	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,6-Dichlorophenol	ND		56	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2,6-Dinitrotoluene	ND		56	26	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2-Acetylaminofluorene	ND		370	110	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2-Chloronaphthalene	ND		37	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2-Chlorophenol	ND		41	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
2-Methylphenol	ND		74	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
3-Methylcholanthrene	ND	*	63	30	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
4,4'-Methylene bis(2-chloroaniline)	ND		560	190	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
4-Bromophenyl-phenylether	ND		56	26	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
4-Chloro-3-methylphenol	ND		56	26	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
4-Chloroaniline	ND		190	37	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
4-Methylphenol	ND		56	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
4-Nitroaniline	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP
Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-2
Matrix: Solid
Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		560	190	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
5-Nitro-o-toluidine	ND		560	190	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Acetophenone	ND		56	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Aniline	ND		560	190	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Anthracene	**10**	**J**	19	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Benzo[a]anthracene	**29**		19	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Benzo[a]pyrene	**34**		19	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Butylbenzylphthalate	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Chrysene	**33**		19	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Di-n-butyl phthalate	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Di-n-octyl phthalate	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Dibenz(a,h)anthracene	ND		19	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Diethyl phthalate	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Dimethyl phthalate	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Fluoranthene	**56**		19	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Hexachlorobenzene	ND		19	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Hexachlorobutadiene	ND		85	41	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Hexachlorocyclopentadiene	ND		560	220	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Hexachloroethane	ND		190	37	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Hexachloropropene	ND		370	110	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Indeno[1,2,3-cd]pyrene	**25**		19	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Isosafrole	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Methapyrilene	ND		5600	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
N-Nitrosodi-n-propylamine	ND		56	26	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
N-Nitrosodi-n-butylamine	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
N-Nitrosodiethylamine	ND		48	22	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
N-Nitrosopiperidine	ND		41	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
N-Nitrosopyrrolidine	ND		56	26	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Naphthalene	ND		19	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Nitrobenzene	ND		74	30	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Pentachlorobenzene	ND		48	22	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Pentachloronitrobenzene	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Phenacetin	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Pentachlorophenol	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Phenanthrene	**25**		19	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Phenol	ND		41	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Pronamide	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Pyrene	**48**		19	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Pyridine	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Safrole, Total	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Bis(2-chloroethoxy)methane	ND		41	19	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Bis(2-chloroethyl)ether	ND		56	26	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1
Bis(2-ethylhexyl) phthalate	ND		190	74	ug/Kg	☼	09/03/20 09:00	09/05/20 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 136*	*09/03/20 09:00*	*09/05/20 19:05*	*1*
2-Fluorobiphenyl (Surr)	*66*		*34 - 117*	*09/03/20 09:00*	*09/05/20 19:05*	*1*
2-Fluorophenol (Surr)	*64*		*18 - 115*	*09/03/20 09:00*	*09/05/20 19:05*	*1*
Nitrobenzene-d5 (Surr)	*63*		*23 - 115*	*09/03/20 09:00*	*09/05/20 19:05*	*1*
p-Terphenyl-d14 (Surr)	*65*		*35 - 135*	*09/03/20 09:00*	*09/05/20 19:05*	*1*

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-2

Matrix: Solid
Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*70*		*21 - 112*	*09/03/20 09:00*	*09/05/20 19:05*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1100	220	ug/Kg	☼		09/09/20 01:50	1
Isobutanol (1C)	ND		1100	190	ug/Kg	☼		09/09/20 01:50	1
Methanol (2C)	ND		1100	220	ug/Kg	☼		09/09/20 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetone (1C)	*131*		*10 - 179*		*09/09/20 01:50*	*1*
Acetone (2C)	*101*		*10 - 179*		*09/09/20 01:50*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.92	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
alpha-Chlordane (2C)	**0.20**	**J**	0.92	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
beta-BHC (1C)	ND		1.1	0.49	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
delta-BHC (1C)	ND		1.1	0.50	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Endosulfan I (1C)	ND		0.92	0.24	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Endosulfan II (1C)	ND		2.5	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Endosulfan sulfate (1C)	ND		1.9	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Endrin (1C)	ND		1.9	0.75	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
gamma-BHC (Lindane) (1C)	ND		0.92	0.23	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
gamma-Chlordane (1C)	ND		0.92	0.28	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Heptachlor (1C)	ND		0.92	0.34	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Heptachlor epoxide (1C)	ND		0.92	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Methoxychlor (1C)	ND		7.4	2.0	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Toxaphene (1C)	ND		36	15	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
p,p'-DDD (1C)	**0.45**	**J**	1.9	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
p,p'-DDE (1C)	**4.4**		1.9	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
p,p'-DDT (2C)	**2.5**	**p**	1.9	0.87	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1
Chlordane (n.o.s.) (1C)	ND		19	4.4	ug/Kg	☼	09/02/20 16:39	09/04/20 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	*112*		*46 - 152*	*09/02/20 16:39*	*09/04/20 11:59*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*105*		*46 - 152*	*09/02/20 16:39*	*09/04/20 11:59*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*122*		*19 - 136*	*09/02/20 16:39*	*09/04/20 11:59*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*97*		*19 - 136*	*09/02/20 16:39*	*09/04/20 11:59*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		1.9	0.83	ug/Kg	☼	09/11/20 18:54	09/16/20 20:23	1
2,4-D (1C)	ND	*	40	13	ug/Kg	☼	09/11/20 18:54	09/16/20 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	*26*	*X*	*27 - 136*	*09/11/20 18:54*	*09/16/20 20:23*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*27*		*27 - 136*	*09/11/20 18:54*	*09/16/20 20:23*	*1*

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP

Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-2

Matrix: Solid
Percent Solids: 89.4

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 03:11	20
Carbofuran	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 03:11	20
Methiocarb	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 03:11	20
Methomyl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 03:11	20
Oxamyl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/10/20 03:11	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*71*		*27 - 131*	*09/03/20 23:16*	*09/10/20 03:11*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		0.89	0.30	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2
Barium	**86**		0.89	0.41	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2
Cadmium	**0.17**	**J**	0.22	0.11	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2
Calcium	**1300**		89	33	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2
Chromium	**26**		0.89	0.34	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2
Lead	**23**		0.44	0.11	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2
Nickel	**15**		0.89	0.36	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2
Selenium	ND		0.89	0.29	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2
Silver	**0.17**	**J**	0.22	0.090	mg/Kg	☼	08/31/20 09:09	09/08/20 13:32	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.089**		0.063	0.026	mg/Kg	☼	08/31/20 09:35	08/31/20 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.56	0.20	mg/Kg	☼		09/14/20 10:33	1
Cyanide, Total	ND	H	0.56	0.20	mg/Kg	☼	09/11/20 13:03	09/14/20 10:33	1
Percent Moisture	**10.5**		1.0	1.0	%			08/29/20 12:57	1
Percent Solids	**89.5**		1.0	1.0	%			08/29/20 12:57	1

Client Sample ID: PAD-23-SW-0-0.5

Date Collected: 08/28/20 08:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-3

Matrix: Solid
Percent Solids: 82.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,1,1-Trichloroethane	ND		5.6	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,1,2,2-Tetrachloroethane	ND		5.6	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,1,2-Trichloroethane	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,1-Dichloroethane	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,1-Dichloroethene	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,2,4-Trichlorobenzene	ND		11	5.6	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,2-Dibromo-3-Chloropropane	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,2-Dibromoethane	ND		5.6	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,2-Dichloroethane	ND		5.6	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,2-Dichloropropane	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
1,4-Dioxane	ND		280	42	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-SW-0-0.5
Date Collected: 08/28/20 08:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-3
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		11	2.3	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
4-Methyl-2-pentanone	ND		11	1.1	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Acetone	ND		23	6.8	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Acrylonitrile	ND		23	0.90	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Benzene	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Bromoform	ND		11	5.6	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Bromomethane	ND		5.6	0.79	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Carbon disulfide	ND		5.6	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Carbon tetrachloride	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Chlorobenzene	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Chloroethane	ND		5.6	1.1	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Chloroform	ND		5.6	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Chloromethane	ND		5.6	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
cis-1,3-Dichloropropene	ND		5.6	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Dibromomethane	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Dichlorodifluoromethane	ND		5.6	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Ethyl acetate	ND		5.6	1.1	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Ethyl ether	ND		5.6	1.1	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Ethyl methacrylate	ND		5.6	1.1	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Ethylbenzene	ND		5.6	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Freon 113	ND		11	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Methacrylonitrile	ND		56	9.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Methyl iodide	ND		5.6	0.45	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Methyl methacrylate	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Methylene Chloride	ND		5.6	2.3	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Pentachloroethane	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Tetrachloroethene	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Toluene	ND		5.6	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
trans-1,2-Dichloroethene	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
trans-1,3-Dichloropropene	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Trichloroethene	ND		5.6	0.56	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Trichlorofluoromethane	ND		5.6	0.79	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Vinyl chloride	ND		5.6	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/29/20 15:20	09/04/20 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/29/20 15:20*	*09/04/20 18:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/29/20 15:20*	*09/04/20 18:03*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/29/20 15:20*	*09/04/20 18:03*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/29/20 15:20*	*09/04/20 18:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		220	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
1,2,4-Trichlorobenzene	ND		300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
1,2-Dichlorobenzene	ND		300	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
1,3-Dichlorobenzene	ND		220	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
1,4-Dichlorobenzene	ND		220	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2,2'-oxybis[1-chloropropane]	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2,4,5-Trichlorophenol	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5

Client Sample ID: PAD-23-SW-0-0.5
Date Collected: 08/28/20 08:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-3
Matrix: Solid
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		340	160	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2,4-Dichlorophenol	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2,4-Dimethylphenol	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2,4-Dinitrophenol	ND		6100	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2,4-Dinitrotoluene	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2,6-Dichlorophenol	ND		300	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2,6-Dinitrotoluene	ND		300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2-Acetylaminofluorene	ND		2000	610	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2-Chloronaphthalene	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2-Chlorophenol	ND		220	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
2-Methylphenol	ND		400	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
3-Methylcholanthrene	ND	*	340	160	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
4,4'-Methylene bis(2-chloroaniline)	ND		3000	1000	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
4-Bromophenyl-phenylether	ND		300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
4-Chloro-3-methylphenol	ND		300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
4-Chloroaniline	ND		1000	200	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
4-Methylphenol	ND		300	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
4-Nitroaniline	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
4-Nitrophenol	ND		3000	1000	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
5-Nitro-o-toluidine	ND		3000	1000	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Acetophenone	ND		300	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Aniline	ND		3000	1000	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Anthracene	**74**	**J**	100	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Benzo[a]anthracene	**180**		100	40	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Benzo[a]pyrene	**200**		100	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Butylbenzylphthalate	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Chrysene	**220**		100	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Di-n-butyl phthalate	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Di-n-octyl phthalate	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Dibenz(a,h)anthracene	ND		100	40	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Diethyl phthalate	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Dimethyl phthalate	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Fluoranthene	**410**		100	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Hexachlorobenzene	ND		100	40	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Hexachlorobutadiene	ND		470	220	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Hexachlorocyclopentadiene	ND		3000	1200	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Hexachloroethane	ND		1000	200	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Hexachloropropene	ND		2000	610	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Indeno[1,2,3-cd]pyrene	**160**		100	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Isosafrole	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Methapyrilene	ND		30000	10000	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
N-Nitrosodi-n-propylamine	ND		300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
N-Nitrosodi-n-butylamine	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
N-Nitrosodiethylamine	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
N-Nitrosopiperidine	ND		220	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
N-Nitrosopyrrolidine	ND		300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Naphthalene	**63**	**J**	100	40	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Nitrobenzene	ND		400	160	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Pentachlorobenzene	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5

Client Sample ID: PAD-23-SW-0-0.5

Date Collected: 08/28/20 08:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-3

Matrix: Solid
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachloronitrobenzene	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Phenacetin	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Pentachlorophenol	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Phenanthrene	**140**		100	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Phenol	ND		220	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Pronamide	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Pyrene	**440**		100	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Pyridine	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Safrole, Total	ND		1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Bis(2-chloroethoxy)methane	ND		220	100	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Bis(2-chloroethyl)ether	ND		300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5
Bis(2-ethylhexyl) phthalate	**620**	**J**	1000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*10 - 136*	*09/03/20 09:00*	*09/05/20 19:28*	*5*
2-Fluorobiphenyl (Surr)	*68*		*34 - 117*	*09/03/20 09:00*	*09/05/20 19:28*	*5*
2-Fluorophenol (Surr)	*66*		*18 - 115*	*09/03/20 09:00*	*09/05/20 19:28*	*5*
Nitrobenzene-d5 (Surr)	*58*		*23 - 115*	*09/03/20 09:00*	*09/05/20 19:28*	*5*
p-Terphenyl-d14 (Surr)	*71*		*35 - 135*	*09/03/20 09:00*	*09/05/20 19:28*	*5*
Phenol-d5 (Surr)	*71*		*21 - 112*	*09/03/20 09:00*	*09/05/20 19:28*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1200	240	ug/Kg	☼		09/09/20 02:07	1
Isobutanol (1C)	ND		1200	210	ug/Kg	☼		09/09/20 02:07	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/09/20 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*117*		*10 - 179*		*09/09/20 02:07*	*1*
Acetone (2C)	*93*		*10 - 179*		*09/09/20 02:07*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (2C)	ND		1.0	0.21	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
alpha-Chlordane (1C)	**0.40**	**J**	1.0	0.21	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
beta-BHC (1C)	ND		1.2	0.53	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
delta-BHC (1C)	**1.8**		1.2	0.55	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
Endosulfan I (2C)	**0.37**	**J**	1.0	0.27	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
Endosulfan II (2C)	ND		2.8	1.3	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
Endosulfan sulfate (1C)	ND		2.1	0.40	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
Endrin (1C)	ND		2.1	0.83	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
gamma-BHC (Lindane) (2C)	**1.1**		1.0	0.25	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
gamma-Chlordane (1C)	**0.52**	**J**	1.0	0.30	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
Heptachlor (1C)	ND		1.0	0.38	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
Heptachlor epoxide (2C)	ND		1.0	0.21	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
Methoxychlor (1C)	ND		8.1	2.2	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
Toxaphene (1C)	ND		40	17	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
p,p'-DDD (2C)	ND		2.1	0.40	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
p,p'-DDE (1C)	**5.0**		2.1	0.40	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1
p,p'-DDT (1C)	**11**		2.1	0.96	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1

Client Sample ID: PAD-23-SW-0-0.5

Date Collected: 08/28/20 08:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-3

Matrix: Solid
Percent Solids: 82.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (n.o.s.) (1C)	ND		21	4.9	ug/Kg	☼	09/10/20 09:25	09/11/20 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*115*		*46 - 152*	*09/10/20 09:25*	*09/11/20 23:01*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*81*		*46 - 152*	*09/10/20 09:25*	*09/11/20 23:01*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*68*		*19 - 136*	*09/10/20 09:25*	*09/11/20 23:01*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*54*		*19 - 136*	*09/10/20 09:25*	*09/11/20 23:01*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND		2.0	0.90	ug/Kg	☼	09/11/20 18:54	09/16/20 20:57	1
2,4-D (1C)	ND	*	43	14	ug/Kg	☼	09/11/20 18:54	09/16/20 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*52*		*27 - 136*	*09/11/20 18:54*	*09/16/20 20:57*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*53*		*27 - 136*	*09/11/20 18:54*	*09/16/20 20:57*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:00	20
Carbofuran	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:00	20
Methiocarb	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:00	20
Methomyl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:00	20
Oxamyl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*83*		*27 - 131*	*09/03/20 23:16*	*09/10/20 04:00*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.2**		0.76	0.25	mg/Kg	☼	08/31/20 08:29	09/15/20 18:38	2
Barium	**100**		0.76	0.35	mg/Kg	☼	08/31/20 08:29	09/15/20 18:38	2
Cadmium	**4.2**		0.19	0.096	mg/Kg	☼	08/31/20 08:29	09/15/20 18:38	2
Calcium	**6100**		76	29	mg/Kg	☼	08/31/20 08:29	09/15/20 18:38	2
Chromium	**52**		0.76	0.29	mg/Kg	☼	08/31/20 08:29	09/15/20 18:38	2
Lead	**48**		0.38	0.096	mg/Kg	☼	08/31/20 08:29	09/24/20 16:13	2
Nickel	**42**		0.76	0.31	mg/Kg	☼	08/31/20 08:29	09/15/20 18:38	2
Selenium	**0.47**	**J**	0.76	0.25	mg/Kg	☼	08/31/20 08:29	09/15/20 18:38	2
Silver	**0.82**		0.19	0.077	mg/Kg	☼	08/31/20 08:29	09/15/20 18:38	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**5.1**		0.72	0.30	mg/Kg	☼	08/31/20 09:35	08/31/20 13:42	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	**0.32**	**J**	0.61	0.22	mg/Kg	☼		09/14/20 10:34	1
Cyanide, Total	**0.32**	**J H**	0.61	0.22	mg/Kg	☼	09/11/20 13:03	09/14/20 10:34	1
Percent Moisture	**18.0**		1.0	1.0	%			09/01/20 16:16	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-SW-0-0.5

Date Collected: 08/28/20 08:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-3

Matrix: Solid
Percent Solids: 82.0

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.0		1.0	1.0	%			09/01/20 16:16	1

Client Sample ID: PAD-23-S-CTR-0-0.5

Date Collected: 08/28/20 08:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-4

Matrix: Solid
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,1,1-Trichloroethane	ND		5.0	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.40	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,1-Dichloroethane	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,1-Dichloroethene	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,2,4-Trichlorobenzene	ND		10	5.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,2-Dichloropropane	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
1,4-Dioxane	ND		250	37	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
2-Butanone	ND		10	2.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
4-Methyl-2-pentanone	ND		10	1.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Acetone	ND		20	6.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Acrylonitrile	ND		20	0.80	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Benzene	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Bromoform	ND		10	5.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Bromomethane	ND		5.0	0.70	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Carbon disulfide	ND		5.0	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Chlorobenzene	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Chloroethane	ND		5.0	1.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Chloroform	ND		5.0	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Chloromethane	ND		5.0	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
cis-1,3-Dichloropropene	ND		5.0	0.40	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Dibromomethane	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Dichlorodifluoromethane	ND		5.0	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Ethyl acetate	ND		5.0	1.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Ethyl ether	ND		5.0	1.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Ethyl methacrylate	ND		5.0	1.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Ethylbenzene	ND		5.0	0.40	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Freon 113	ND		10	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Methacrylonitrile	ND		50	8.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Methyl iodide	ND		5.0	0.40	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Methyl methacrylate	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Methylene Chloride	ND		5.0	2.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Pentachloroethane	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Tetrachloroethene	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Toluene	ND		5.0	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
trans-1,2-Dichloroethene	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1

Client Sample ID: PAD-23-S-CTR-0-0.5
Date Collected: 08/28/20 08:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-4
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0	0.50	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Trichlorofluoromethane	ND		5.0	0.70	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Vinyl chloride	ND		5.0	0.60	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/29/20 15:20	09/04/20 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*08/29/20 15:20*	*09/04/20 18:25*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*08/29/20 15:20*	*09/04/20 18:25*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/29/20 15:20*	*09/04/20 18:25*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/29/20 15:20*	*09/04/20 18:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
1,2,4-Trichlorobenzene	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
1,2-Dichlorobenzene	ND		61	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
1,3-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
1,4-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,2'-oxybis[1-chloropropane]	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,4,5-Trichlorophenol	ND		81	36	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,4,6-Trichlorophenol	ND		69	32	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,4-Dichlorophenol	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,4-Dimethylphenol	ND		81	36	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,4-Dinitrophenol	ND		1200	400	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,4-Dinitrotoluene	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,6-Dichlorophenol	ND		61	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2,6-Dinitrotoluene	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2-Acetylaminofluorene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2-Chloronaphthalene	**8.1**	**J**	40	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2-Chlorophenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
2-Methylphenol	ND		81	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
3-Methylcholanthrene	ND	*	69	32	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
4,4'-Methylene bis(2-chloroaniline)	ND		610	200	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
4-Bromophenyl-phenylether	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
4-Chloro-3-methylphenol	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
4-Chloroaniline	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
4-Methylphenol	ND		61	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
4-Nitroaniline	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
4-Nitrophenol	ND		610	200	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
5-Nitro-o-toluidine	ND		610	200	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Acetophenone	ND		61	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Aniline	ND		610	200	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Anthracene	**12**	**J**	20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Benzo[a]anthracene	**10**	**J**	20	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Benzo[a]pyrene	ND		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Butylbenzylphthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Chrysene	**16**	**J**	20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Di-n-butyl phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Di-n-octyl phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Dibenz(a,h)anthracene	ND		20	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1

Client Sample ID: PAD-23-S-CTR-0-0.5

Date Collected: 08/28/20 08:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-4

Matrix: Solid
Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Dimethyl phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Fluoranthene	**26**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Hexachlorobenzene	ND		20	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Hexachlorobutadiene	ND		93	44	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Hexachlorocyclopentadiene	ND		610	240	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Hexachloroethane	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Hexachloropropene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Indeno[1,2,3-cd]pyrene	ND		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Isosafrole	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Methapyrilene	ND		6100	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
N-Nitrosodi-n-propylamine	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
N-Nitrosodi-n-butylamine	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
N-Nitrosodiethylamine	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
N-Nitrosopiperidine	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
N-Nitrosopyrrolidine	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Naphthalene	**16**	**J**	20	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Nitrobenzene	ND		81	32	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Pentachlorobenzene	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Pentachloronitrobenzene	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Phenacetin	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Pentachlorophenol	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Phenanthrene	**22**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Phenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Pronamide	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Pyrene	**31**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Pyridine	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Safrole, Total	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Bis(2-chloroethoxy)methane	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Bis(2-chloroethyl)ether	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1
Bis(2-ethylhexyl) phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 136*	*09/03/20 09:00*	*09/05/20 19:52*	*1*
2-Fluorobiphenyl (Surr)	*76*		*34 - 117*	*09/03/20 09:00*	*09/05/20 19:52*	*1*
2-Fluorophenol (Surr)	*64*		*18 - 115*	*09/03/20 09:00*	*09/05/20 19:52*	*1*
Nitrobenzene-d5 (Surr)	*70*		*23 - 115*	*09/03/20 09:00*	*09/05/20 19:52*	*1*
p-Terphenyl-d14 (Surr)	*79*		*35 - 135*	*09/03/20 09:00*	*09/05/20 19:52*	*1*
Phenol-d5 (Surr)	*71*		*21 - 112*	*09/03/20 09:00*	*09/05/20 19:52*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1200	240	ug/Kg	☼		09/09/20 02:23	1
Isobutanol (1C)	ND		1200	210	ug/Kg	☼		09/09/20 02:23	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/09/20 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*124*		*10 - 179*		*09/09/20 02:23*	*1*
Acetone (2C)	*99*		*10 - 179*		*09/09/20 02:23*	*1*

Client Sample ID: PAD-23-S-CTR-0-0.5

Date Collected: 08/28/20 08:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-4

Matrix: Solid
Percent Solids: 82.4

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		1.0	0.21	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
alpha-Chlordane (2C)	**0.46**	**J**	1.0	0.21	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
beta-BHC (1C)	ND		1.2	0.53	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
delta-BHC (1C)	ND		1.2	0.55	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Endosulfan I (1C)	ND		1.0	0.27	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Endosulfan II (1C)	ND		2.8	1.3	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Endosulfan sulfate (1C)	ND		2.1	0.40	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Endrin (1C)	ND		2.1	0.82	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
gamma-BHC (Lindane) (1C)	ND		1.0	0.25	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
gamma-Chlordane (2C)	ND		1.0	0.30	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Heptachlor (1C)	ND		1.0	0.38	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Heptachlor epoxide (2C)	ND		1.0	0.21	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Methoxychlor (1C)	ND		8.1	2.2	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Toxaphene (1C)	ND		40	17	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
p,p'-DDD (2C)	ND		2.1	0.40	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
p,p'-DDE (1C)	**1.8**	**J**	2.1	0.40	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
p,p'-DDT (1C)	ND		2.1	0.96	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1
Chlordane (n.o.s.) (1C)	ND		21	4.9	ug/Kg	☼	09/10/20 09:25	09/11/20 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*90*		*46 - 152*	*09/10/20 09:25*	*09/11/20 23:26*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*82*		*46 - 152*	*09/10/20 09:25*	*09/11/20 23:26*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*85*		*19 - 136*	*09/10/20 09:25*	*09/11/20 23:26*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*78*		*19 - 136*	*09/10/20 09:25*	*09/11/20 23:26*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		2.1	0.91	ug/Kg	☼	09/11/20 18:54	09/16/20 21:30	1
2,4-D (1C)	ND	*	44	15	ug/Kg	☼	09/11/20 18:54	09/16/20 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*35*		*27 - 136*	*09/11/20 18:54*	*09/16/20 21:30*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*34*		*27 - 136*	*09/11/20 18:54*	*09/16/20 21:30*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:49	20
Carbofuran	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:49	20
Methiocarb	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:49	20
Methomyl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:49	20
Oxamyl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/10/20 04:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*71*		*27 - 131*	*09/03/20 23:16*	*09/10/20 04:49*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**41**		0.90	0.30	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2
Barium	**150**		0.90	0.41	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2

Client Sample ID: PAD-23-S-CTR-0-0.5

Lab Sample ID: 410-12366-4

Date Collected: 08/28/20 08:30
Date Received: 08/28/20 17:34

Matrix: Solid
Percent Solids: 82.4

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.24		0.22	0.11	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2
Calcium	1100		90	34	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2
Chromium	50		0.90	0.35	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2
Lead	120		0.45	0.11	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2
Nickel	20		0.90	0.37	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2
Selenium	0.53	J	0.90	0.29	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2
Silver	0.13	J	0.22	0.091	mg/Kg	☼	08/31/20 08:29	09/15/20 18:44	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.073	0.030	mg/Kg	☼	08/31/20 09:35	08/31/20 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.61	0.22	mg/Kg	☼		09/14/20 10:49	1
Cyanide, Total	ND	H	0.61	0.22	mg/Kg	☼	09/11/20 08:35	09/14/20 10:49	1
Percent Moisture	17.6		1.0	1.0	%			09/01/20 16:16	1
Percent Solids	82.4		1.0	1.0	%			09/01/20 16:16	1

Client Sample ID: PAD-23-24-S-0-0.5

Lab Sample ID: 410-12366-5

Date Collected: 08/28/20 09:00
Date Received: 08/28/20 17:34

Matrix: Solid
Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,1,1-Trichloroethane	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,1,2-Trichloroethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,1-Dichloroethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,1-Dichloroethene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,2,4-Trichlorobenzene	ND		9.8	4.9	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,2-Dibromo-3-Chloropropane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,2-Dibromoethane	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,2-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,2-Dichloropropane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
1,4-Dioxane	ND		250	36	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
2-Butanone	ND		9.8	2.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
4-Methyl-2-pentanone	ND		9.8	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Acetone	170		20	5.9	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Acrylonitrile	ND		20	0.78	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Benzene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Bromoform	ND		9.8	4.9	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Bromomethane	ND		4.9	0.69	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Carbon disulfide	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Carbon tetrachloride	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Chlorobenzene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Chloroethane	ND		4.9	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Chloroform	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Chloromethane	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1

Client Sample ID: PAD-23-24-S-0-0.5
Date Collected: 08/28/20 09:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-5
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Dibromomethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Dichlorodifluoromethane	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Ethyl acetate	ND		4.9	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Ethyl ether	ND		4.9	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Ethyl methacrylate	ND		4.9	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Ethylbenzene	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Freon 113	ND		9.8	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Methacrylonitrile	ND		49	7.8	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Methyl iodide	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Methyl methacrylate	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Methylene Chloride	ND		4.9	2.0	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Pentachloroethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Tetrachloroethene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Toluene	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
trans-1,2-Dichloroethene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
trans-1,3-Dichloropropene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Trichloroethene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Trichlorofluoromethane	ND		4.9	0.69	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Vinyl chloride	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1
Xylenes, Total	ND		9.8	1.4	ug/Kg	☼	08/29/20 15:20	09/04/20 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*08/29/20 15:20*	*09/04/20 18:47*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*08/29/20 15:20*	*09/04/20 18:47*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/29/20 15:20*	*09/04/20 18:47*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/29/20 15:20*	*09/04/20 18:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
1,2,4-Trichlorobenzene	**56**	**J**	58	27	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
1,2-Dichlorobenzene	**19**	**J**	58	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
1,3-Dichlorobenzene	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
1,4-Dichlorobenzene	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,2'-oxybis[1-chloropropane]	ND		51	23	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,4,5-Trichlorophenol	ND		78	35	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,4,6-Trichlorophenol	ND		66	31	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,4-Dichlorophenol	ND		51	23	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,4-Dimethylphenol	ND		78	35	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,4-Dinitrophenol	ND		1200	390	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,4-Dinitrotoluene	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,6-Dichlorophenol	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2,6-Dinitrotoluene	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2-Acetylaminofluorene	ND		390	120	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2-Chloronaphthalene	ND		39	7.8	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2-Chlorophenol	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
2-Methylphenol	ND		78	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
3-Methylcholanthrene	ND	*	66	31	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
4,4'-Methylene bis(2-chloroaniline)	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-24-S-0-0.5
Date Collected: 08/28/20 09:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-5
Matrix: Solid
Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl-phenylether	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
4-Chloro-3-methylphenol	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
4-Chloroaniline	ND		190	39	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
4-Methylphenol	**30**	**J**	58	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
4-Nitroaniline	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
4-Nitrophenol	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
5-Nitro-o-toluidine	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Acetophenone	**38**	**J**	58	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Aniline	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Anthracene	**20**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Benzo[a]anthracene	**41**		19	7.8	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Benzo[a]pyrene	**51**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Butylbenzylphthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Chrysene	**59**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Di-n-butyl phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Di-n-octyl phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Dibenz(a,h)anthracene	**10**	**J**	19	7.8	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Diethyl phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Dimethyl phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Fluoranthene	**130**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Hexachlorobenzene	ND		19	7.8	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Hexachlorobutadiene	ND		90	43	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Hexachlorocyclopentadiene	ND		580	230	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Hexachloroethane	ND		190	39	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Hexachloropropene	ND		390	120	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Indeno[1,2,3-cd]pyrene	**41**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Isosafrole	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Methapyrilene	ND		5800	1900	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
N-Nitrosodi-n-propylamine	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
N-Nitrosodi-n-butylamine	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
N-Nitrosodiethylamine	ND		51	23	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
N-Nitrosopiperidine	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
N-Nitrosopyrrolidine	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Naphthalene	**24**		19	7.8	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Nitrobenzene	ND		78	31	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Pentachlorobenzene	ND		51	23	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Pentachloronitrobenzene	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Phenacetin	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Pentachlorophenol	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Phenanthrene	**69**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Phenol	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Pronamide	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Pyrene	**120**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Pyridine	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Safrole, Total	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Bis(2-chloroethoxy)methane	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Bis(2-chloroethyl)ether	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1
Bis(2-ethylhexyl) phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/06/20 15:05	1

Client Sample ID: PAD-23-24-S-0-0.5
Date Collected: 08/28/20 09:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-5
Matrix: Solid
Percent Solids: 85.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	42		10 - 136	09/03/20 09:00	09/06/20 15:05	1
2-Fluorobiphenyl (Surr)	71		34 - 117	09/03/20 09:00	09/06/20 15:05	1
2-Fluorophenol (Surr)	69		18 - 115	09/03/20 09:00	09/06/20 15:05	1
Nitrobenzene-d5 (Surr)	65		23 - 115	09/03/20 09:00	09/06/20 15:05	1
p-Terphenyl-d14 (Surr)	44		35 - 135	09/03/20 09:00	09/06/20 15:05	1
Phenol-d5 (Surr)	71		21 - 112	09/03/20 09:00	09/06/20 15:05	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1200	230	ug/Kg	☼		09/09/20 02:40	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/09/20 02:40	1
Methanol (2C)	ND		1200	230	ug/Kg	☼		09/09/20 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetone (1C)	120		10 - 179		09/09/20 02:40	1
Acetone (2C)	100		10 - 179		09/09/20 02:40	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (2C)	ND		0.97	0.20	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
alpha-Chlordane (1C)	**4.6**		0.97	0.20	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
beta-BHC (1C)	ND		1.2	0.51	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
delta-BHC (1C)	ND		1.2	0.52	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Endosulfan I (1C)	**3.1**		0.97	0.26	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Endosulfan II (1C)	**15**		2.7	1.3	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Endosulfan sulfate (1C)	ND		2.0	0.38	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Endrin (1C)	**15**		2.0	0.79	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
gamma-BHC (Lindane) (1C)	ND		0.97	0.24	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Heptachlor (1C)	**2.4**		0.97	0.36	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Heptachlor epoxide (2C)	**7.7**		0.97	0.20	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Methoxychlor (1C)	**2.7**	**J p**	7.8	2.1	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Toxaphene (1C)	ND		38	16	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
p,p'-DDD (2C)	**8.2**		2.0	0.38	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1
Chlordane (n.o.s.) (1C)	ND		20	4.7	ug/Kg	☼	09/10/20 09:25	09/11/20 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	519	X	46 - 152	09/10/20 09:25	09/11/20 23:38	1
DCB Decachlorobiphenyl (Surr) (2C)	490	X	46 - 152	09/10/20 09:25	09/11/20 23:38	1
Tetrachloro-m-xylene (Surr) (1C)	77		19 - 136	09/10/20 09:25	09/11/20 23:38	1
Tetrachloro-m-xylene (Surr) (2C)	68		19 - 136	09/10/20 09:25	09/11/20 23:38	1

Method: 8081B - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane (1C)	**14**		4.8	1.5	ug/Kg	☼	09/10/20 09:25	09/11/20 23:50	5
p,p'-DDE (1C)	**23**		9.9	1.9	ug/Kg	☼	09/10/20 09:25	09/11/20 23:50	5
p,p'-DDT (1C)	**36**		9.9	4.6	ug/Kg	☼	09/10/20 09:25	09/11/20 23:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	550	X	46 - 152	09/10/20 09:25	09/11/20 23:50	5
DCB Decachlorobiphenyl (Surr) (2C)	517	X	46 - 152	09/10/20 09:25	09/11/20 23:50	5
Tetrachloro-m-xylene (Surr) (1C)	84		19 - 136	09/10/20 09:25	09/11/20 23:50	5

Client Sample ID: PAD-23-24-S-0-0.5

Date Collected: 08/28/20 09:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-5

Matrix: Solid
Percent Solids: 85.4

Method: 8081B - Organochlorine Pesticides (GC) - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr) (2C)	*90*		*19 - 136*	*09/10/20 09:25*	*09/11/20 23:50*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		2.0	0.87	ug/Kg	☼	09/11/20 18:54	09/16/20 22:03	1
2,4-D (1C)	ND	*	42	14	ug/Kg	☼	09/11/20 18:54	09/16/20 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*45*		*27 - 136*	*09/11/20 18:54*	*09/16/20 22:03*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*43*		*27 - 136*	*09/11/20 18:54*	*09/16/20 22:03*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		290	59	ug/Kg	☼	09/03/20 23:16	09/10/20 05:38	20
Carbofuran	ND		290	59	ug/Kg	☼	09/03/20 23:16	09/10/20 05:38	20
Methiocarb	ND		290	59	ug/Kg	☼	09/03/20 23:16	09/10/20 05:38	20
Methomyl	ND		290	59	ug/Kg	☼	09/03/20 23:16	09/10/20 05:38	20
Oxamyl	ND		290	59	ug/Kg	☼	09/03/20 23:16	09/10/20 05:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*70*		*27 - 131*	*09/03/20 23:16*	*09/10/20 05:38*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13**		0.88	0.30	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2
Barium	**160**		0.88	0.40	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2
Cadmium	**1.9**		0.22	0.11	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2
Calcium	**3800**		88	33	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2
Chromium	**89**		0.88	0.34	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2
Lead	**84**		0.44	0.11	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2
Nickel	**89**		0.88	0.36	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2
Selenium	**0.52**	**J**	0.88	0.29	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2
Silver	**2.2**		0.22	0.090	mg/Kg	☼	08/31/20 09:09	09/08/20 13:30	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.79**		0.068	0.028	mg/Kg	☼	08/31/20 09:35	08/31/20 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.59	0.21	mg/Kg	☼		09/14/20 10:50	1
Cyanide, Total	ND	H	0.58	0.21	mg/Kg	☼	09/11/20 08:35	09/14/20 10:50	1
Percent Moisture	**14.6**		1.0	1.0	%			09/01/20 16:16	1
Percent Solids	**85.4**		1.0	1.0	%			09/01/20 16:16	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-24-S-CTR-0-0.5

Date Collected: 08/28/20 10:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-6

Matrix: Solid
Percent Solids: 85.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,1,1-Trichloroethane	ND		4.8	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,1,2-Trichloroethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,1-Dichloroethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,1-Dichloroethene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,2,4-Trichlorobenzene	ND		9.6	4.8	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,2-Dibromo-3-Chloropropane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,2-Dibromoethane	ND		4.8	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,2-Dichloroethane	ND		4.8	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,2-Dichloropropane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
1,4-Dioxane	ND		240	36	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
2-Butanone	ND		9.6	1.9	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
4-Methyl-2-pentanone	ND		9.6	0.96	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Acetone	ND		19	5.8	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Acrylonitrile	ND		19	0.77	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Benzene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Bromoform	ND		9.6	4.8	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Bromomethane	ND		4.8	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Carbon disulfide	ND		4.8	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Carbon tetrachloride	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Chlorobenzene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Chloroethane	ND		4.8	0.96	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Chloroform	ND		4.8	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Chloromethane	ND		4.8	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
cis-1,3-Dichloropropene	ND		4.8	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Dibromomethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Dichlorodifluoromethane	ND		4.8	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Ethyl acetate	ND		4.8	0.96	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Ethyl ether	ND		4.8	0.96	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Ethyl methacrylate	ND		4.8	0.96	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Ethylbenzene	ND		4.8	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Freon 113	ND		9.6	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Methacrylonitrile	ND		48	7.7	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Methyl iodide	ND		4.8	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Methyl methacrylate	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Methylene Chloride	ND		4.8	1.9	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Pentachloroethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Tetrachloroethene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Toluene	ND		4.8	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
trans-1,2-Dichloroethene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
trans-1,3-Dichloropropene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Trichloroethene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Trichlorofluoromethane	ND		4.8	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Vinyl chloride	ND		4.8	0.58	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1
Xylenes, Total	ND		9.6	1.4	ug/Kg	☼	08/29/20 15:20	09/04/20 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/29/20 15:20*	*09/04/20 19:09*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/29/20 15:20*	*09/04/20 19:09*	*1*

Client Sample ID: PAD-24-S-CTR-0-0.5

Date Collected: 08/28/20 10:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-6

Matrix: Solid
Percent Solids: 85.8

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/29/20 15:20*	*09/04/20 19:09*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/29/20 15:20*	*09/04/20 19:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		42	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
1,2,4-Trichlorobenzene	**56**	**J**	58	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
1,2-Dichlorobenzene	ND		58	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
1,3-Dichlorobenzene	ND		42	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
1,4-Dichlorobenzene	ND		42	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,2'-oxybis[1-chloropropane]	ND		50	23	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,4,5-Trichlorophenol	ND		77	35	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,4,6-Trichlorophenol	ND		65	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,4-Dichlorophenol	ND		50	23	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,4-Dimethylphenol	ND		77	35	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,4-Dinitrophenol	ND		1200	380	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,4-Dinitrotoluene	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,6-Dichlorophenol	ND		58	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2,6-Dinitrotoluene	ND		58	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2-Acetylaminofluorene	ND		380	120	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2-Chloronaphthalene	ND		38	7.7	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2-Chlorophenol	ND		42	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
2-Methylphenol	ND		77	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
3-Methylcholanthrene	ND		65	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
4,4'-Methylene bis(2-chloroaniline)	ND		580	190	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
4-Bromophenyl-phenylether	ND		58	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
4-Chloro-3-methylphenol	ND		58	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
4-Chloroaniline	ND		190	38	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
4-Methylphenol	**22**	**J**	58	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
4-Nitroaniline	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
4-Nitrophenol	ND		580	190	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
5-Nitro-o-toluidine	ND		580	190	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Acetophenone	**26**	**J**	58	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Aniline	ND		580	190	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Anthracene	**35**		19	3.8	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Benzo[a]anthracene	**73**		19	7.7	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Benzo[a]pyrene	**91**		19	3.8	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Butylbenzylphthalate	**300**		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Chrysene	**110**		19	3.8	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Di-n-butyl phthalate	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Di-n-octyl phthalate	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Dibenz(a,h)anthracene	**25**		19	7.7	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Diethyl phthalate	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Dimethyl phthalate	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Fluoranthene	**150**		19	3.8	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Hexachlorobenzene	ND		19	7.7	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Hexachlorobutadiene	ND		88	42	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Hexachlorocyclopentadiene	ND		580	230	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Hexachloroethane	ND		190	38	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1

Client Sample ID: PAD-24-S-CTR-0-0.5

Date Collected: 08/28/20 10:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-6

Matrix: Solid
Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	ND		380	120	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Indeno[1,2,3-cd]pyrene	**78**		19	3.8	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Isosafrole	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Methapyrilene	ND		5800	1900	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
N-Nitrosodi-n-propylamine	ND		58	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
N-Nitrosodi-n-butylamine	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
N-Nitrosodiethylamine	ND		50	23	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
N-Nitrosopiperidine	ND		42	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
N-Nitrosopyrrolidine	ND		58	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Naphthalene	**37**		19	7.7	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Nitrobenzene	**50**	**J**	77	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Pentachlorobenzene	ND		50	23	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Pentachloronitrobenzene	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Phenacetin	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Pentachlorophenol	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Phenanthrene	**98**		19	3.8	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Phenol	ND		42	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Pronamide	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Pyrene	**170**		19	3.8	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Pyridine	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Safrole, Total	ND		190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Bis(2-chloroethoxy)methane	ND		42	19	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Bis(2-chloroethyl)ether	ND		58	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1
Bis(2-ethylhexyl) phthalate	**92**	**J**	190	77	ug/Kg	☼	09/04/20 10:00	09/06/20 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 136*	*09/04/20 10:00*	*09/06/20 17:01*	*1*
2-Fluorobiphenyl (Surr)	*81*		*34 - 117*	*09/04/20 10:00*	*09/06/20 17:01*	*1*
2-Fluorophenol (Surr)	*67*		*18 - 115*	*09/04/20 10:00*	*09/06/20 17:01*	*1*
Nitrobenzene-d5 (Surr)	*72*		*23 - 115*	*09/04/20 10:00*	*09/06/20 17:01*	*1*
p-Terphenyl-d14 (Surr)	*80*		*35 - 135*	*09/04/20 10:00*	*09/06/20 17:01*	*1*
Phenol-d5 (Surr)	*74*		*21 - 112*	*09/04/20 10:00*	*09/06/20 17:01*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1200	230	ug/Kg	☼		09/09/20 03:30	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/09/20 03:30	1
Methanol (2C)	ND		1200	230	ug/Kg	☼		09/09/20 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*125*		*10 - 179*		*09/09/20 03:30*	*1*
Acetone (2C)	*100*		*10 - 179*		*09/09/20 03:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		4.8	0.97	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
alpha-Chlordane (1C)	**4.6**	**J**	4.8	0.97	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
beta-BHC (1C)	ND		5.7	2.5	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
delta-BHC (1C)	ND		5.7	2.6	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
Endosulfan I (2C)	**4.3**	**J**	4.8	1.3	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5

Client Sample ID: PAD-24-S-CTR-0-0.5

Date Collected: 08/28/20 10:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-6

Matrix: Solid
Percent Solids: 85.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II (2C)	**17**		13	6.3	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
Endosulfan sulfate (1C)	ND		9.7	1.9	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
Endrin (2C)	ND		9.7	3.9	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
gamma-BHC (Lindane) (1C)	ND		4.8	1.2	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
gamma-Chlordane (1C)	**14**		4.8	1.4	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
Heptachlor (1C)	ND		4.8	1.8	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
Heptachlor epoxide (2C)	**7.4**		4.8	0.97	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
Methoxychlor (1C)	ND		38	10	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
Toxaphene (1C)	ND		190	80	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
p,p'-DDD (1C)	ND		9.7	1.9	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
p,p'-DDE (1C)	**30**		9.7	1.9	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
p,p'-DDT (1C)	**75**		9.7	4.5	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5
Chlordane (n.o.s.) (1C)	ND		97	23	ug/Kg	☼	09/10/20 09:25	09/12/20 00:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*1033*	*X*	*46 - 152*	*09/10/20 09:25*	*09/12/20 00:02*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*980*	*X*	*46 - 152*	*09/10/20 09:25*	*09/12/20 00:02*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*86*		*19 - 136*	*09/10/20 09:25*	*09/12/20 00:02*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*86*		*19 - 136*	*09/10/20 09:25*	*09/12/20 00:02*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		2.0	0.86	ug/Kg	☼	09/11/20 18:54	09/16/20 22:36	1
2,4-D (1C)	ND	*	41	14	ug/Kg	☼	09/11/20 18:54	09/16/20 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*43*		*27 - 136*	*09/11/20 18:54*	*09/16/20 22:36*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*42*		*27 - 136*	*09/11/20 18:54*	*09/16/20 22:36*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/10/20 06:28	20
Carbofuran	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/10/20 06:28	20
Methiocarb	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/10/20 06:28	20
Methomyl	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/10/20 06:28	20
Oxamyl	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/10/20 06:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*73*		*27 - 131*	*09/03/20 23:16*	*09/10/20 06:28*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**20**		0.81	0.27	mg/Kg	☼	08/31/20 08:29	09/15/20 18:37	2
Barium	**220**		0.81	0.37	mg/Kg	☼	08/31/20 08:29	09/15/20 18:37	2
Cadmium	**1.3**		0.20	0.10	mg/Kg	☼	08/31/20 08:29	09/15/20 18:37	2
Calcium	**4300**		81	30	mg/Kg	☼	08/31/20 08:29	09/15/20 18:37	2
Chromium	**73**		0.81	0.31	mg/Kg	☼	08/31/20 08:29	09/15/20 18:37	2
Lead	**120**		0.41	0.10	mg/Kg	☼	08/31/20 08:29	09/24/20 16:12	2
Nickel	**42**		0.81	0.33	mg/Kg	☼	08/31/20 08:29	09/15/20 18:37	2

Client Sample ID: PAD-24-S-CTR-0-0.5

Lab Sample ID: 410-12366-6

Date Collected: 08/28/20 10:00
Date Received: 08/28/20 17:34

Matrix: Solid
Percent Solids: 85.8

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.61	J	0.81	0.26	mg/Kg	☼	08/31/20 08:29	09/15/20 18:37	2
Silver	1.9		0.20	0.082	mg/Kg	☼	08/31/20 08:29	09/15/20 18:37	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.4		0.66	0.27	mg/Kg	☼	08/31/20 09:31	09/01/20 15:40	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.58	0.21	mg/Kg	☼		09/14/20 10:54	1
Cyanide, Total	ND	H	0.59	0.21	mg/Kg	☼	09/11/20 08:35	09/14/20 10:38	1
Percent Moisture	14.2		1.0	1.0	%			09/01/20 16:16	1
Percent Solids	85.8		1.0	1.0	%			09/01/20 16:16	1

Client Sample ID: PAD-24-24-0-S-0-0.5

Lab Sample ID: 410-12366-7

Date Collected: 08/28/20 10:15
Date Received: 08/28/20 17:34

Matrix: Solid
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,1,1-Trichloroethane	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,1,2-Trichloroethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,1-Dichloroethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,1-Dichloroethene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,2,4-Trichlorobenzene	ND		9.8	4.9	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,2-Dibromo-3-Chloropropane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,2-Dibromoethane	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,2-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,2-Dichloropropane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
1,4-Dioxane	ND		240	36	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
2-Butanone	ND		9.8	2.0	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
4-Methyl-2-pentanone	ND		9.8	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Acetone	ND		20	5.9	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Acrylonitrile	ND		20	0.78	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Benzene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Bromoform	ND		9.8	4.9	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Bromomethane	ND		4.9	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Carbon disulfide	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Carbon tetrachloride	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Chlorobenzene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Chloroethane	ND		4.9	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Chloroform	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Chloromethane	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
cis-1,3-Dichloropropene	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Dibromomethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Dichlorodifluoromethane	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Ethyl acetate	ND		4.9	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Ethyl ether	ND		4.9	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1

Client Sample ID: PAD-24-24-0-S-0-0.5
Date Collected: 08/28/20 10:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-7
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		4.9	0.98	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Ethylbenzene	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Freon 113	ND		9.8	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Methacrylonitrile	ND		49	7.8	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Methyl iodide	ND		4.9	0.39	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Methyl methacrylate	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Methylene Chloride	ND		4.9	2.0	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Pentachloroethane	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Tetrachloroethene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Toluene	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
trans-1,2-Dichloroethene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
trans-1,3-Dichloropropene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Trichloroethene	ND		4.9	0.49	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Trichlorofluoromethane	ND		4.9	0.68	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Vinyl chloride	ND		4.9	0.59	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1
Xylenes, Total	ND		9.8	1.4	ug/Kg	☼	08/29/20 15:20	09/04/20 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/29/20 15:20*	*09/04/20 19:32*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*08/29/20 15:20*	*09/04/20 19:32*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/29/20 15:20*	*09/04/20 19:32*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/29/20 15:20*	*09/04/20 19:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
1,2,4-Trichlorobenzene	**45**	**J**	59	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
1,2-Dichlorobenzene	ND		59	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
1,3-Dichlorobenzene	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
1,4-Dichlorobenzene	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,2'-oxybis[1-chloropropane]	ND		51	24	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,4,5-Trichlorophenol	ND		79	35	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,4,6-Trichlorophenol	ND		67	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,4-Dichlorophenol	ND		51	24	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,4-Dimethylphenol	ND		79	35	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,4-Dinitrophenol	ND		1200	390	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,4-Dinitrotoluene	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,6-Dichlorophenol	ND		59	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2,6-Dinitrotoluene	ND		59	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2-Acetylaminofluorene	ND		390	120	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2-Chloronaphthalene	ND		39	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2-Chlorophenol	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
2-Methylphenol	ND		79	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
3-Methylcholanthrene	ND		67	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
4,4'-Methylene bis(2-chloroaniline)	ND		590	200	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
4-Bromophenyl-phenylether	ND		59	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
4-Chloro-3-methylphenol	ND		59	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
4-Chloroaniline	ND		200	39	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
4-Methylphenol	ND		59	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
4-Nitroaniline	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1

Client Sample ID: PAD-24-24-0-S-0-0.5
Date Collected: 08/28/20 10:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-7
Matrix: Solid
Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		590	200	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
5-Nitro-o-toluidine	ND		590	200	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Acetophenone	**27**	**J**	59	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Aniline	ND		590	200	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Anthracene	**13**	**J**	20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Benzo[a]anthracene	**29**		20	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Benzo[a]pyrene	**36**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Butylbenzylphthalate	**100**	**J**	200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Chrysene	**38**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Di-n-butyl phthalate	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Di-n-octyl phthalate	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Dibenz(a,h)anthracene	ND		20	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Diethyl phthalate	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Dimethyl phthalate	**130**	**J**	200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Fluoranthene	**50**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Hexachlorobenzene	ND		20	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Hexachlorobutadiene	ND		90	43	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Hexachlorocyclopentadiene	ND		590	240	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Hexachloroethane	ND		200	39	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Hexachloropropene	ND		390	120	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Indeno[1,2,3-cd]pyrene	**28**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Isosafrole	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Methapyrilene	ND		5900	2000	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
N-Nitrosodi-n-propylamine	ND		59	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
N-Nitrosodi-n-butylamine	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
N-Nitrosodiethylamine	ND		51	24	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
N-Nitrosopiperidine	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
N-Nitrosopyrrolidine	ND		59	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Naphthalene	**11**	**J**	20	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Nitrobenzene	ND		79	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Pentachlorobenzene	ND		51	24	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Pentachloronitrobenzene	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Phenacetin	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Pentachlorophenol	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Phenanthrene	**24**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Phenol	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Pronamide	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Pyrene	**49**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Pyridine	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Safrole, Total	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Bis(2-chloroethoxy)methane	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Bis(2-chloroethyl)ether	ND		59	27	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1
Bis(2-ethylhexyl) phthalate	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*10 - 136*	*09/04/20 10:00*	*09/06/20 17:24*	*1*
2-Fluorobiphenyl (Surr)	*75*		*34 - 117*	*09/04/20 10:00*	*09/06/20 17:24*	*1*
2-Fluorophenol (Surr)	*64*		*18 - 115*	*09/04/20 10:00*	*09/06/20 17:24*	*1*
Nitrobenzene-d5 (Surr)	*72*		*23 - 115*	*09/04/20 10:00*	*09/06/20 17:24*	*1*
p-Terphenyl-d14 (Surr)	*76*		*35 - 135*	*09/04/20 10:00*	*09/06/20 17:24*	*1*

Client Sample ID: PAD-24-24-0-S-0-0.5

Date Collected: 08/28/20 10:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-7

Matrix: Solid
Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*72*		*21 - 112*	*09/04/20 10:00*	*09/06/20 17:24*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1200	240	ug/Kg	☼		09/09/20 03:46	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/09/20 03:46	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/09/20 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*127*		*10 - 179*		*09/09/20 03:46*	*1*
Acetone (2C)	*100*		*10 - 179*		*09/09/20 03:46*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.98	0.20	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
beta-BHC (1C)	ND		1.2	0.52	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
delta-BHC (1C)	ND		1.2	0.53	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
Endosulfan I (2C)	**3.9**		0.98	0.26	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
Endosulfan sulfate (2C)	**2.4**		2.0	0.39	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
Endrin (1C)	**15**		2.0	0.80	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
gamma-BHC (Lindane) (1C)	ND		0.98	0.25	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
gamma-Chlordane (2C)	**7.9**	**p**	0.98	0.29	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
Heptachlor (1C)	**1.6**		0.98	0.37	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
Heptachlor epoxide (2C)	**7.5**		0.98	0.20	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
Methoxychlor (1C)	ND		7.9	2.1	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
Toxaphene (1C)	ND		39	17	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
p,p'-DDD (2C)	**12**		2.0	0.39	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
p,p'-DDE (2C)	**9.7**		2.0	0.39	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1
Chlordane (n.o.s.) (1C)	ND		20	4.7	ug/Kg	☼	09/10/20 09:25	09/12/20 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*618*	*X*	*46 - 152*	*09/10/20 09:25*	*09/12/20 00:15*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*620*	*X*	*46 - 152*	*09/10/20 09:25*	*09/12/20 00:15*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*76*		*19 - 136*	*09/10/20 09:25*	*09/12/20 00:15*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*74*		*19 - 136*	*09/10/20 09:25*	*09/12/20 00:15*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane (2C)	**1.3**	**J**	4.9	1.0	ug/Kg	☼	09/10/20 09:25	09/12/20 00:27	5
Endosulfan II (2C)	ND		14	6.5	ug/Kg	☼	09/10/20 09:25	09/12/20 00:27	5
p,p'-DDT (1C)	**38**		10	4.7	ug/Kg	☼	09/10/20 09:25	09/12/20 00:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*672*	*X*	*46 - 152*	*09/10/20 09:25*	*09/12/20 00:27*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*609*	*X*	*46 - 152*	*09/10/20 09:25*	*09/12/20 00:27*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*77*		*19 - 136*	*09/10/20 09:25*	*09/12/20 00:27*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*89*		*19 - 136*	*09/10/20 09:25*	*09/12/20 00:27*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		2.0	0.89	ug/Kg	☼	09/11/20 18:54	09/16/20 23:10	1

Client Sample ID: PAD-24-24-0-S-0-0.5

Date Collected: 08/28/20 10:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-7

Matrix: Solid
Percent Solids: 84.3

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D (1C)	ND	*	43	14	ug/Kg	☼	09/11/20 18:54	09/16/20 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*45*		*27 - 136*	*09/11/20 18:54*	*09/16/20 23:10*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*50*		*27 - 136*	*09/11/20 18:54*	*09/16/20 23:10*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:06	20
Carbofuran	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:06	20
Methiocarb	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:06	20
Methomyl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:06	20
Oxamyl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*75*		*27 - 131*	*09/03/20 23:16*	*09/10/20 08:06*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**25**		0.86	0.29	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2
Barium	**160**		0.86	0.39	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2
Cadmium	**1.1**		0.22	0.11	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2
Calcium	**4100**		86	32	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2
Chromium	**50**		0.86	0.33	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2
Lead	**84**		0.43	0.11	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2
Nickel	**35**		0.86	0.35	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2
Selenium	**0.45**	**J**	0.86	0.28	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2
Silver	**0.90**		0.22	0.088	mg/Kg	☼	08/31/20 09:09	09/08/20 13:28	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.0**		0.68	0.28	mg/Kg	☼	08/31/20 09:31	09/01/20 15:47	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.59	0.21	mg/Kg	☼		09/14/20 11:01	1
Cyanide, Total	ND	H	0.57	0.21	mg/Kg	☼	09/11/20 08:35	09/14/20 10:42	1
Percent Moisture	**15.7**		1.0	1.0	%			09/01/20 16:16	1
Percent Solids	**84.3**		1.0	1.0	%			09/01/20 16:16	1

Client Sample ID: PAD-24-0-S-CTR-0-0.5

Date Collected: 08/28/20 10:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-8

Matrix: Solid
Percent Solids: 84.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,1,1-Trichloroethane	ND		4.8	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.38	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-24-0-S-CTR-0-0.5
Date Collected: 08/28/20 10:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-8
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,1-Dichloroethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,1-Dichloroethene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,2,4-Trichlorobenzene	ND		9.5	4.8	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,2-Dibromo-3-Chloropropane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,2-Dibromoethane	ND		4.8	0.38	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,2-Dichloroethane	ND		4.8	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,2-Dichloropropane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
1,4-Dioxane	ND		240	35	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
2-Butanone	ND		9.5	1.9	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
4-Methyl-2-pentanone	ND		9.5	0.95	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Acetone	ND		19	5.7	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Acrylonitrile	ND		19	0.76	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Benzene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Bromoform	ND		9.5	4.8	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Bromomethane	ND		4.8	0.67	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Carbon disulfide	ND		4.8	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Carbon tetrachloride	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Chlorobenzene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Chloroethane	ND		4.8	0.95	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Chloroform	ND		4.8	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Chloromethane	ND		4.8	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
cis-1,3-Dichloropropene	ND		4.8	0.38	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Dibromomethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Dichlorodifluoromethane	ND		4.8	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Ethyl acetate	ND		4.8	0.95	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Ethyl ether	ND		4.8	0.95	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Ethyl methacrylate	ND		4.8	0.95	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Ethylbenzene	ND		4.8	0.38	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Freon 113	ND		9.5	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Methacrylonitrile	ND		48	7.6	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Methyl iodide	ND		4.8	0.38	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Methyl methacrylate	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Methylene Chloride	ND		4.8	1.9	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Pentachloroethane	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Tetrachloroethene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Toluene	ND		4.8	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
trans-1,2-Dichloroethene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
trans-1,3-Dichloropropene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Trichloroethene	ND		4.8	0.48	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Trichlorofluoromethane	ND		4.8	0.67	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Vinyl chloride	ND		4.8	0.57	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1
Xylenes, Total	ND		9.5	1.3	ug/Kg	☼	08/29/20 15:20	09/04/20 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/29/20 15:20*	*09/04/20 19:54*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/29/20 15:20*	*09/04/20 19:54*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/29/20 15:20*	*09/04/20 19:54*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/29/20 15:20*	*09/04/20 19:54*	*1*

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-24-0-S-CTR-0-0.5

Date Collected: 08/28/20 10:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-8

Matrix: Solid
Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
1,2,4-Trichlorobenzene	**96**		59	28	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
1,2-Dichlorobenzene	**100**		59	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
1,3-Dichlorobenzene	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
1,4-Dichlorobenzene	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,2'-oxybis[1-chloropropane]	ND		51	24	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,4,5-Trichlorophenol	ND		79	35	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,4,6-Trichlorophenol	ND		67	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,4-Dichlorophenol	ND		51	24	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,4-Dimethylphenol	ND		79	35	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,4-Dinitrophenol	ND		1200	390	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,4-Dinitrotoluene	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,6-Dichlorophenol	ND		59	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2,6-Dinitrotoluene	ND		59	28	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2-Acetylaminofluorene	ND		390	120	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2-Chloronaphthalene	ND		39	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2-Chlorophenol	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
2-Methylphenol	ND		79	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
3-Methylcholanthrene	ND		67	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
4,4'-Methylene bis(2-chloroaniline)	ND		590	200	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
4-Bromophenyl-phenylether	ND		59	28	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
4-Chloro-3-methylphenol	ND		59	28	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
4-Chloroaniline	ND		200	39	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
4-Methylphenol	ND		59	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
4-Nitroaniline	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
4-Nitrophenol	ND		590	200	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
5-Nitro-o-toluidine	ND		590	200	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Acetophenone	**120**		59	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Aniline	ND		590	200	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Anthracene	**16**	**J**	20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Benzo[a]anthracene	**50**		20	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Benzo[a]pyrene	**64**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Butylbenzylphthalate	**270**		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Chrysene	**80**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Di-n-butyl phthalate	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Di-n-octyl phthalate	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Dibenz(a,h)anthracene	**18**	**J**	20	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Diethyl phthalate	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Dimethyl phthalate	**420**		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Fluoranthene	**99**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Hexachlorobenzene	ND		20	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Hexachlorobutadiene	ND		91	43	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Hexachlorocyclopentadiene	ND		590	240	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Hexachloroethane	ND		200	39	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Hexachloropropene	ND		390	120	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Indeno[1,2,3-cd]pyrene	**60**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Isosafrole	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Methapyrilene	ND		5900	2000	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
N-Nitrosodi-n-propylamine	ND		59	28	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1

Client Sample ID: PAD-24-0-S-CTR-0-0.5
Date Collected: 08/28/20 10:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-8
Matrix: Solid
Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
N-Nitrosodiethylamine	ND		51	24	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
N-Nitrosopiperidine	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
N-Nitrosopyrrolidine	ND		59	28	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Naphthalene	**35**		20	7.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Nitrobenzene	ND		79	31	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Pentachlorobenzene	ND		51	24	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Pentachloronitrobenzene	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Phenacetin	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Pentachlorophenol	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Phenanthrene	**61**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Phenol	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Pronamide	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Pyrene	**95**		20	3.9	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Pyridine	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Safrole, Total	ND		200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Bis(2-chloroethoxy)methane	ND		43	20	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Bis(2-chloroethyl)ether	ND		59	28	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1
Bis(2-ethylhexyl) phthalate	**190**	**J**	200	79	ug/Kg	☼	09/04/20 10:00	09/06/20 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 136*	*09/04/20 10:00*	*09/06/20 17:48*	*1*
2-Fluorobiphenyl (Surr)	*75*		*34 - 117*	*09/04/20 10:00*	*09/06/20 17:48*	*1*
2-Fluorophenol (Surr)	*67*		*18 - 115*	*09/04/20 10:00*	*09/06/20 17:48*	*1*
Nitrobenzene-d5 (Surr)	*72*		*23 - 115*	*09/04/20 10:00*	*09/06/20 17:48*	*1*
p-Terphenyl-d14 (Surr)	*74*		*35 - 135*	*09/04/20 10:00*	*09/06/20 17:48*	*1*
Phenol-d5 (Surr)	*73*		*21 - 112*	*09/04/20 10:00*	*09/06/20 17:48*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1200	240	ug/Kg	☼		09/09/20 04:03	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/09/20 04:03	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/09/20 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*131*		*10 - 179*		*09/09/20 04:03*	*1*
Acetone (2C)	*97*		*10 - 179*		*09/09/20 04:03*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		4.9	1.0	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
alpha-Chlordane (1C)	ND		35	35	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
beta-BHC (1C)	ND		5.9	2.6	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
delta-BHC (1C)	ND		5.9	2.6	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
Endosulfan I (2C)	**4.1**	**J p**	4.9	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
Endosulfan II (2C)	**12**	**J p**	14	6.5	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
Endosulfan sulfate (2C)	**9.2**	**J p**	10	1.9	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
Endrin (1C)	**5.6**	**J**	10	4.0	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
gamma-BHC (Lindane) (1C)	ND		4.9	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
gamma-Chlordane (1C)	ND		4.9	1.5	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5

Client Sample ID: PAD-24-0-S-CTR-0-0.5

Date Collected: 08/28/20 10:30
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-8

Matrix: Solid
Percent Solids: 84.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor (2C)	ND		4.9	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
Heptachlor epoxide (1C)	ND	p	9.4	9.4	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
Methoxychlor (1C)	ND		39	11	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
Toxaphene (1C)	ND		190	82	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
p,p'-DDD (1C)	ND		10	1.9	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
p,p'-DDE (1C)	**3.6**	**J p**	10	1.9	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
p,p'-DDT (1C)	ND		76	76	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5
Chlordane (n.o.s.) (1C)	ND		100	24	ug/Kg	☼	09/02/20 16:39	09/04/20 12:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*940*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 12:20*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*873*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 12:20*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*96*		*19 - 136*	*09/02/20 16:39*	*09/04/20 12:20*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*73*		*19 - 136*	*09/02/20 16:39*	*09/04/20 12:20*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		2.0	0.88	ug/Kg	☼	09/11/20 18:54	09/16/20 23:43	1
2,4-D (1C)	ND	*	42	14	ug/Kg	☼	09/11/20 18:54	09/16/20 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*17*	*X*	*27 - 136*	*09/11/20 18:54*	*09/16/20 23:43*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*18*	*X*	*27 - 136*	*09/11/20 18:54*	*09/16/20 23:43*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:56	20
Carbofuran	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:56	20
Methiocarb	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:56	20
Methomyl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:56	20
Oxamyl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/10/20 08:56	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*81*		*27 - 131*	*09/03/20 23:16*	*09/10/20 08:56*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**17**		0.65	0.22	mg/Kg	☼	08/31/20 08:29	09/15/20 18:46	2
Barium	**140**		0.65	0.30	mg/Kg	☼	08/31/20 08:29	09/15/20 18:46	2
Cadmium	**1.5**		0.16	0.082	mg/Kg	☼	08/31/20 08:29	09/15/20 18:46	2
Calcium	**5500**		65	24	mg/Kg	☼	08/31/20 08:29	09/15/20 18:46	2
Chromium	**63**		0.65	0.25	mg/Kg	☼	08/31/20 08:29	09/15/20 18:46	2
Lead	**48**		0.33	0.082	mg/Kg	☼	08/31/20 08:29	09/24/20 16:15	2
Nickel	**53**		0.65	0.27	mg/Kg	☼	08/31/20 08:29	09/15/20 18:46	2
Selenium	**0.63**	**J**	0.65	0.21	mg/Kg	☼	08/31/20 08:29	09/15/20 18:46	2
Silver	**1.5**		0.16	0.066	mg/Kg	☼	08/31/20 08:29	09/15/20 18:46	2

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-24-0-S-CTR-0-0.5

Lab Sample ID: 410-12366-8
Date Collected: 08/28/20 10:30
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 84.4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.1**		0.33	0.14	mg/Kg	☼	08/31/20 09:35	08/31/20 13:44	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.59	0.21	mg/Kg	☼		09/14/20 11:02	1
Cyanide, Total	ND	H	0.59	0.21	mg/Kg	☼	09/11/20 08:35	09/14/20 10:44	1
Percent Moisture	**15.6**		1.0	1.0	%			09/01/20 16:16	1
Percent Solids	**84.4**		1.0	1.0	%			09/01/20 16:16	1

Client Sample ID: PAD-24-0-SE-0-0.5

Lab Sample ID: 410-12366-9
Date Collected: 08/28/20 10:45
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,1,1-Trichloroethane	ND		6.3	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,1,2,2-Tetrachloroethane	ND		6.3	0.50	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,1,2-Trichloroethane	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,1-Dichloroethane	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,1-Dichloroethene	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,2,4-Trichlorobenzene	ND		13	6.3	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,2-Dibromo-3-Chloropropane	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,2-Dibromoethane	ND		6.3	0.50	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,2-Dichloroethane	ND		6.3	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,2-Dichloropropane	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
1,4-Dioxane	ND		310	46	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
2-Butanone	ND		13	2.5	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
4-Methyl-2-pentanone	ND		13	1.3	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Acetone	**51**		25	7.5	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Acrylonitrile	ND		25	1.0	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Benzene	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Bromoform	ND		13	6.3	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Bromomethane	ND		6.3	0.88	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Carbon disulfide	ND		6.3	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Carbon tetrachloride	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Chlorobenzene	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Chloroethane	ND		6.3	1.3	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Chloroform	ND		6.3	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Chloromethane	**0.81**	**J B**	6.3	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
cis-1,3-Dichloropropene	ND		6.3	0.50	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Dibromomethane	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Dichlorodifluoromethane	ND		6.3	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Ethyl acetate	ND		6.3	1.3	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Ethyl ether	ND		6.3	1.3	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Ethyl methacrylate	ND		6.3	1.3	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Ethylbenzene	ND		6.3	0.50	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Freon 113	ND		13	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Methacrylonitrile	ND		63	10	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Methyl iodide	ND		6.3	0.50	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-24-0-SE-0-0.5

Date Collected: 08/28/20 10:45
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-9

Matrix: Solid
Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Methylene Chloride	ND		6.3	2.5	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Pentachloroethane	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Tetrachloroethene	**2.7**	**J**	6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Toluene	ND		6.3	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
trans-1,2-Dichloroethene	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
trans-1,3-Dichloropropene	ND		6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Trichloroethene	**1.7**	**J**	6.3	0.63	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Trichlorofluoromethane	ND		6.3	0.88	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Vinyl chloride	ND		6.3	0.75	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	08/29/20 15:28	09/04/20 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*08/29/20 15:28*	*09/04/20 20:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/29/20 15:28*	*09/04/20 20:17*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/29/20 15:28*	*09/04/20 20:17*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/29/20 15:28*	*09/04/20 20:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		480	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
1,2,4-Trichlorobenzene	**1200**		660	310	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
1,2-Dichlorobenzene	ND		660	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
1,3-Dichlorobenzene	ND		480	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
1,4-Dichlorobenzene	ND		480	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,2'-oxybis[1-chloropropane]	ND		570	260	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,4,5-Trichlorophenol	ND		880	400	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,4,6-Trichlorophenol	ND		750	350	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,4-Dichlorophenol	ND		570	260	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,4-Dimethylphenol	ND		880	400	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,4-Dinitrophenol	ND		13000	4400	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,4-Dinitrotoluene	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,6-Dichlorophenol	ND		660	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2,6-Dinitrotoluene	ND		660	310	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2-Acetylaminofluorene	ND		4400	1300	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2-Chloronaphthalene	ND		440	88	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2-Chlorophenol	ND		480	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
2-Methylphenol	ND		880	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
3-Methylcholanthrene	ND		750	350	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
4,4'-Methylene bis(2-chloroaniline)	ND		6600	2200	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
4-Bromophenyl-phenylether	ND		660	310	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
4-Chloro-3-methylphenol	ND		660	310	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
4-Chloroaniline	ND		2200	440	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
4-Methylphenol	ND		660	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
4-Nitroaniline	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
4-Nitrophenol	ND		6600	2200	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
5-Nitro-o-toluidine	ND		6600	2200	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Acetophenone	ND		660	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Aniline	ND		6600	2200	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Anthracene	ND		220	44	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-24-0-SE-0-0.5
Date Collected: 08/28/20 10:45
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-9
Matrix: Solid
Percent Solids: 75.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**170**	**J**	220	88	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Benzo[a]pyrene	**250**		220	44	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Butylbenzylphthalate	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Chrysene	**300**		220	44	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Di-n-butyl phthalate	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Di-n-octyl phthalate	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Dibenz(a,h)anthracene	ND		220	88	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Diethyl phthalate	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Dimethyl phthalate	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Fluoranthene	**420**		220	44	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Hexachlorobenzene	ND		220	88	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Hexachlorobutadiene	ND		1000	480	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Hexachlorocyclopentadiene	ND		6600	2600	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Hexachloroethane	ND		2200	440	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Hexachloropropene	ND		4400	1300	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Indeno[1,2,3-cd]pyrene	**200**	**J**	220	44	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Isosafrole	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Methapyrilene	ND		66000	22000	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
N-Nitrosodi-n-propylamine	ND		660	310	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
N-Nitrosodi-n-butylamine	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
N-Nitrosodiethylamine	ND		570	260	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
N-Nitrosopiperidine	ND		480	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
N-Nitrosopyrrolidine	ND		660	310	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Naphthalene	ND		220	88	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Nitrobenzene	ND		880	350	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Pentachlorobenzene	ND		570	260	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Pentachloronitrobenzene	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Phenacetin	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Pentachlorophenol	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Phenanthrene	**160**	**J**	220	44	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Phenol	ND		480	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Pronamide	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Pyrene	**500**		220	44	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Pyridine	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Safrole, Total	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Bis(2-chloroethoxy)methane	ND		480	220	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Bis(2-chloroethyl)ether	ND		660	310	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10
Bis(2-ethylhexyl) phthalate	ND		2200	880	ug/Kg	☼	09/11/20 18:30	09/17/20 01:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*10 - 136*	*09/11/20 18:30*	*09/17/20 01:34*	*10*
2-Fluorobiphenyl (Surr)	*67*		*34 - 117*	*09/11/20 18:30*	*09/17/20 01:34*	*10*
2-Fluorophenol (Surr)	*68*		*18 - 115*	*09/11/20 18:30*	*09/17/20 01:34*	*10*
Nitrobenzene-d5 (Surr)	*68*		*23 - 115*	*09/11/20 18:30*	*09/17/20 01:34*	*10*
p-Terphenyl-d14 (Surr)	*70*		*35 - 135*	*09/11/20 18:30*	*09/17/20 01:34*	*10*
Phenol-d5 (Surr)	*69*		*21 - 112*	*09/11/20 18:30*	*09/17/20 01:34*	*10*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND	*	1300	270	ug/Kg	☼		09/09/20 04:19	1

Client Sample ID: PAD-24-0-SE-0-0.5

Date Collected: 08/28/20 10:45
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-9

Matrix: Solid
Percent Solids: 75.0

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol (1C)	ND		1300	230	ug/Kg	☼		09/09/20 04:19	1
Methanol (2C)	ND		1300	270	ug/Kg	☼		09/09/20 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*112*		*10 - 179*		*09/09/20 04:19*	*1*
Acetone (2C)	*87*		*10 - 179*		*09/09/20 04:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		5.4	1.1	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
alpha-Chlordane (2C)	ND		37	37	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
beta-BHC (1C)	ND		6.6	2.9	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
delta-BHC (1C)	ND		6.6	3.0	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Endosulfan I (2C)	**4.4**	**J p**	5.4	1.4	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Endosulfan II (1C)	ND	p	25	25	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Endosulfan sulfate (1C)	ND		11	2.2	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Endrin (1C)	ND		11	4.5	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
gamma-BHC (Lindane) (1C)	ND		5.4	1.4	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
gamma-Chlordane (1C)	ND		5.4	1.6	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Heptachlor (2C)	ND		5.4	2.0	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Heptachlor epoxide (1C)	ND	p	9.8	9.8	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Methoxychlor (1C)	ND		44	12	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Toxaphene (1C)	ND		220	92	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
p,p'-DDD (1C)	ND		11	2.2	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
p,p'-DDE (1C)	**7.6**	**J p**	11	2.2	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
p,p'-DDT (2C)	ND	p	59	59	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5
Chlordane (n.o.s.) (1C)	ND		110	26	ug/Kg	☼	09/02/20 16:39	09/04/20 12:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*428*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 12:31*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*403*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 12:31*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*99*		*19 - 136*	*09/02/20 16:39*	*09/04/20 12:31*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*51*		*19 - 136*	*09/02/20 16:39*	*09/04/20 12:31*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		2.2	0.99	ug/Kg	☼	09/11/20 18:54	09/17/20 00:17	1
2,4-D (1C)	ND	*	48	16	ug/Kg	☼	09/11/20 18:54	09/17/20 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*13*	*X*	*27 - 136*	*09/11/20 18:54*	*09/17/20 00:17*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*14*	*X*	*27 - 136*	*09/11/20 18:54*	*09/17/20 00:17*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		330	67	ug/Kg	☼	09/03/20 23:16	09/10/20 09:45	20
Carbofuran	ND		330	67	ug/Kg	☼	09/03/20 23:16	09/10/20 09:45	20
Methiocarb	ND		330	67	ug/Kg	☼	09/03/20 23:16	09/10/20 09:45	20
Methomyl	ND		330	67	ug/Kg	☼	09/03/20 23:16	09/10/20 09:45	20

Client Sample ID: PAD-24-0-SE-0-0.5

Date Collected: 08/28/20 10:45
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-9

Matrix: Solid
Percent Solids: 75.0

Method: 8318 - Carbamate (HPLC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxamyl	ND		330	67	ug/Kg	☼	09/03/20 23:16	09/10/20 09:45	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*33*		*27 - 131*	*09/03/20 23:16*	*09/10/20 09:45*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**28**		0.94	0.32	mg/Kg	☼	08/31/20 08:21	09/15/20 18:05	2
Barium	**320**		0.94	0.43	mg/Kg	☼	08/31/20 08:21	09/15/20 18:05	2
Cadmium	**6.1**		0.24	0.12	mg/Kg	☼	08/31/20 08:21	09/15/20 18:05	2
Calcium	**5900**		94	35	mg/Kg	☼	08/31/20 08:21	09/15/20 18:05	2
Chromium	**76**		0.94	0.36	mg/Kg	☼	08/31/20 08:21	09/15/20 18:05	2
Lead	**140**		0.47	0.12	mg/Kg	☼	08/31/20 08:21	09/26/20 12:52	2
Nickel	**75**		0.94	0.38	mg/Kg	☼	08/31/20 08:21	09/15/20 18:05	2
Selenium	**1.1**		0.94	0.31	mg/Kg	☼	08/31/20 08:21	09/15/20 18:05	2
Silver	**2.0**		0.24	0.096	mg/Kg	☼	08/31/20 08:21	09/15/20 18:05	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**9.6**		1.6	0.66	mg/Kg	☼	08/31/20 09:35	08/31/20 13:46	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.67	0.24	mg/Kg	☼		09/14/20 11:04	1
Cyanide, Total	ND	H	0.65	0.23	mg/Kg	☼	09/11/20 08:35	09/14/20 10:45	1
Percent Moisture	**25.0**		1.0	1.0	%			09/01/20 16:16	1
Percent Solids	**75.0**		1.0	1.0	%			09/01/20 16:16	1

Client Sample ID: PAD-TB2-082820

Date Collected: 08/28/20 00:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1.9**	**J**	20	0.70	ug/L			09/03/20 14:21	1
Acrylonitrile	ND		20	0.30	ug/L			09/03/20 14:21	1
Benzene	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Bromoform	ND		4.0	1.0	ug/L			09/03/20 14:21	1
Bromomethane	ND		1.0	0.30	ug/L			09/03/20 14:21	1
2-Butanone	ND		10	0.30	ug/L			09/03/20 14:21	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/03/20 14:21	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Chloroethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Chloroform	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Chloromethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/20 14:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/03/20 14:21	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Dibromomethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1

Client Sample ID: PAD-TB2-082820

Lab Sample ID: 410-12366-10

Date Collected: 08/28/20 00:00

Matrix: Water

Date Received: 08/28/20 17:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/03/20 14:21	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/03/20 14:21	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
1,4-Dioxane	ND		250	29	ug/L			09/03/20 14:21	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/03/20 14:21	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/03/20 14:21	1
Ethyl ether	ND		5.0	0.20	ug/L			09/03/20 14:21	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/03/20 14:21	1
Freon 113	ND		10	0.20	ug/L			09/03/20 14:21	1
Methacrylonitrile	ND		50	6.0	ug/L			09/03/20 14:21	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/03/20 14:21	1
Methyl iodide	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/03/20 14:21	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/03/20 14:21	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/03/20 14:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Toluene	ND		1.0	0.20	ug/L			09/03/20 14:21	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/03/20 14:21	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/20 14:21	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/03/20 14:21	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/03/20 14:21	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Trichloroethene	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/03/20 14:21	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/03/20 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*09/03/20 14:21*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/03/20 14:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/03/20 14:21*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/03/20 14:21*	*1*

Client Sample ID: PAD-EB2-082820

Lab Sample ID: 410-12366-11

Date Collected: 08/28/20 11:15

Matrix: Water

Date Received: 08/28/20 17:34

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.72**	**J**	20	0.70	ug/L			09/03/20 14:42	1
Acrylonitrile	ND		20	0.30	ug/L			09/03/20 14:42	1
Benzene	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Bromoform	ND		4.0	1.0	ug/L			09/03/20 14:42	1
Bromomethane	ND		1.0	0.30	ug/L			09/03/20 14:42	1
2-Butanone	ND		10	0.30	ug/L			09/03/20 14:42	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/03/20 14:42	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-EB2-082820
Date Collected: 08/28/20 11:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Chloroethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Chloroform	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Chloromethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/20 14:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/03/20 14:42	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Dibromomethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/03/20 14:42	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/03/20 14:42	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
1,4-Dioxane	ND		250	29	ug/L			09/03/20 14:42	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/03/20 14:42	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/03/20 14:42	1
Ethyl ether	ND		5.0	0.20	ug/L			09/03/20 14:42	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/03/20 14:42	1
Freon 113	ND		10	0.20	ug/L			09/03/20 14:42	1
Methacrylonitrile	ND		50	6.0	ug/L			09/03/20 14:42	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/03/20 14:42	1
Methyl iodide	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/03/20 14:42	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/03/20 14:42	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/03/20 14:42	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Toluene	ND		1.0	0.20	ug/L			09/03/20 14:42	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/03/20 14:42	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/20 14:42	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/03/20 14:42	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/03/20 14:42	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Trichloroethene	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/03/20 14:42	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/03/20 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*80 - 120*		*09/03/20 14:42*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/03/20 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*09/03/20 14:42*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*09/03/20 14:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND	*	12	4.6	ug/L		09/04/20 08:45	09/07/20 05:10	1
2-Acetylaminofluorene	ND		24	12	ug/L		09/04/20 08:45	09/07/20 05:10	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-EB2-082820
Date Collected: 08/28/20 11:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-11
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*	12	3.5	ug/L		09/04/20 08:45	09/07/20 05:10	1
Anthracene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Benzo[a]anthracene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Benzo[a]pyrene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Bis(2-chloroethoxy)methane	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Bis(2-chloroethyl)ether	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Bis(2-ethylhexyl) phthalate	ND	*	13	5.8	ug/L		09/04/20 08:45	09/07/20 05:10	1
4-Bromophenyl-phenylether	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Butylbenzylphthalate	ND	*	5.8	2.3	ug/L		09/04/20 08:45	09/07/20 05:10	1
4-Chloroaniline	ND	*	12	4.6	ug/L		09/04/20 08:45	09/07/20 05:10	1
4-Chloro-3-methylphenol	ND	*	4.1	1.9	ug/L		09/04/20 08:45	09/07/20 05:10	1
2-Chloronaphthalene	ND	*	1.2	0.46	ug/L		09/04/20 08:45	09/07/20 05:10	1
2-Chlorophenol	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Chrysene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Dibenz(a,h)anthracene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
1,2-Dichlorobenzene	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
1,3-Dichlorobenzene	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
1,4-Dichlorobenzene	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,4-Dichlorophenol	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,6-Dichlorophenol	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Diethyl phthalate	ND	*	5.8	2.3	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,4-Dimethylphenol	ND	*	12	3.5	ug/L		09/04/20 08:45	09/07/20 05:10	1
Dimethyl phthalate	ND		5.8	2.3	ug/L		09/04/20 08:45	09/07/20 05:10	1
Di-n-butyl phthalate	ND	*	5.8	2.3	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,4-Dinitrophenol	ND		35	16	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,4-Dinitrotoluene	ND	*	5.8	1.2	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,6-Dinitrotoluene	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Di-n-octyl phthalate	ND	*	13	5.8	ug/L		09/04/20 08:45	09/07/20 05:10	1
Fluoranthene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Hexachlorobenzene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Hexachlorobutadiene	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Hexachlorocyclopentadiene	ND	*	13	5.8	ug/L		09/04/20 08:45	09/07/20 05:10	1
Hexachloroethane	ND		5.8	1.2	ug/L		09/04/20 08:45	09/07/20 05:10	1
Hexachloropropene	ND		5.8	2.3	ug/L		09/04/20 08:45	09/07/20 05:10	1
Indeno[1,2,3-cd]pyrene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Isosafrole	ND		12	4.6	ug/L		09/04/20 08:45	09/07/20 05:10	1
Methapyrilene	ND	*	58	17	ug/L		09/04/20 08:45	09/07/20 05:10	1
3-Methylcholanthrene	ND		12	4.6	ug/L		09/04/20 08:45	09/07/20 05:10	1
2-Methylphenol	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
4-Methylphenol	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Naphthalene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
4-Nitroaniline	ND	*	3.5	1.0	ug/L		09/04/20 08:45	09/07/20 05:10	1
Nitrobenzene	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
5-Nitro-o-toluidine	ND		12	4.6	ug/L		09/04/20 08:45	09/07/20 05:10	1
4-Nitrophenol	ND		35	12	ug/L		09/04/20 08:45	09/07/20 05:10	1
N-Nitrosodiethylamine	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
N-Nitrosodi-n-butylamine	ND		29	14	ug/L		09/04/20 08:45	09/07/20 05:10	1
N-Nitrosodi-n-propylamine	ND	*	3.5	0.81	ug/L		09/04/20 08:45	09/07/20 05:10	1
N-Nitrosopiperidine	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1

Client Sample ID: PAD-EB2-082820

Date Collected: 08/28/20 11:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-11

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Pentachlorobenzene	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Pentachloronitrobenzene	ND		5.8	2.3	ug/L		09/04/20 08:45	09/07/20 05:10	1
Pentachlorophenol	ND	*	5.8	1.2	ug/L		09/04/20 08:45	09/07/20 05:10	1
Phenacetin	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Phenanthrene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Phenol	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
Pronamide	ND		5.8	1.2	ug/L		09/04/20 08:45	09/07/20 05:10	1
Pyrene	ND	*	0.58	0.12	ug/L		09/04/20 08:45	09/07/20 05:10	1
Pyridine	ND	*	5.8	2.3	ug/L		09/04/20 08:45	09/07/20 05:10	1
Safrole, Total	ND		5.8	2.3	ug/L		09/04/20 08:45	09/07/20 05:10	1
1,2,4,5-Tetrachlorobenzene	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
4,4'-Methylene bis(2-chloroaniline)	ND		230	82	ug/L		09/04/20 08:45	09/07/20 05:10	1
1,2,4-Trichlorobenzene	ND		2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,4,5-Trichlorophenol	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,4,6-Trichlorophenol	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1
2,2'-oxybis[1-chloropropane]	ND	*	2.3	0.58	ug/L		09/04/20 08:45	09/07/20 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*44 - 102*	*09/04/20 08:45*	*09/07/20 05:10*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 84*	*09/04/20 08:45*	*09/07/20 05:10*	*1*
Nitrobenzene-d5 (Surr)	*84*		*38 - 113*	*09/04/20 08:45*	*09/07/20 05:10*	*1*
Phenol-d5 (Surr)	*37*		*10 - 67*	*09/04/20 08:45*	*09/07/20 05:10*	*1*
p-Terphenyl-d14 (Surr)	*84*		*34 - 128*	*09/04/20 08:45*	*09/07/20 05:10*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*18 - 141*	*09/04/20 08:45*	*09/07/20 05:10*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/08/20 09:15	09/08/20 12:53	1
Isobutanol (1C)	ND		1000	150	ug/L		09/08/20 09:15	09/08/20 12:53	1
Methanol (2C)	ND		1000	220	ug/L		09/08/20 09:15	09/08/20 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*117*		*58 - 149*	*09/08/20 09:15*	*09/08/20 12:53*	*1*
Acetone (2C)	*104*		*58 - 149*	*09/08/20 09:15*	*09/08/20 12:53*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.021	0.0032	ug/L		09/04/20 19:15	09/05/20 13:49	1
alpha-Chlordane (1C)	ND		0.021	0.0032	ug/L		09/04/20 19:15	09/05/20 13:49	1
beta-BHC (1C)	ND		0.021	0.0036	ug/L		09/04/20 19:15	09/05/20 13:49	1
delta-BHC (1C)	ND		0.021	0.0036	ug/L		09/04/20 19:15	09/05/20 13:49	1
Endosulfan I (1C)	ND		0.021	0.0046	ug/L		09/04/20 19:15	09/05/20 13:49	1
Endosulfan II (1C)	ND		0.043	0.016	ug/L		09/04/20 19:15	09/05/20 13:49	1
Endosulfan sulfate (1C)	ND		0.032	0.0062	ug/L		09/04/20 19:15	09/05/20 13:49	1
Endrin (1C)	ND		0.032	0.0087	ug/L		09/04/20 19:15	09/05/20 13:49	1
gamma-BHC (Lindane) (1C)	ND		0.021	0.0021	ug/L		09/04/20 19:15	09/05/20 13:49	1
gamma-Chlordane (1C)	ND		0.043	0.0075	ug/L		09/04/20 19:15	09/05/20 13:49	1
Heptachlor (1C)	ND		0.021	0.0021	ug/L		09/04/20 19:15	09/05/20 13:49	1
Heptachlor epoxide (1C)	ND		0.021	0.0025	ug/L		09/04/20 19:15	09/05/20 13:49	1

Client Sample ID: PAD-EB2-082820

Date Collected: 08/28/20 11:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-11

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor (1C)	ND		0.12	0.032	ug/L		09/04/20 19:15	09/05/20 13:49	1
Toxaphene (2C)	ND		1.1	0.32	ug/L		09/04/20 19:15	09/05/20 13:49	1
p,p'-DDD (1C)	ND		0.032	0.0053	ug/L		09/04/20 19:15	09/05/20 13:49	1
p,p'-DDE (1C)	ND		0.032	0.0053	ug/L		09/04/20 19:15	09/05/20 13:49	1
p,p'-DDT (1C)	ND		0.032	0.0056	ug/L		09/04/20 19:15	09/05/20 13:49	1
Chlordane (n.o.s.) (1C)	ND		0.53	0.17	ug/L		09/04/20 19:15	09/05/20 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*25*	*X*	*32 - 149*	*09/04/20 19:15*	*09/05/20 13:49*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*21*	*X*	*32 - 149*	*09/04/20 19:15*	*09/05/20 13:49*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*55*		*29 - 129*	*09/04/20 19:15*	*09/05/20 13:49*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*61*		*29 - 129*	*09/04/20 19:15*	*09/05/20 13:49*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND	*	0.049	0.0097	ug/L		09/02/20 20:07	09/10/20 00:39	1
2,4-D (2C)	ND	*	0.58	0.24	ug/L		09/02/20 20:07	09/10/20 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*54*	**3*	*34 - 142*	*09/02/20 20:07*	*09/10/20 00:39*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*55*		*34 - 142*	*09/02/20 20:07*	*09/10/20 00:39*	*1*

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/02/20 20:01	09/03/20 13:15	1
Carbofuran	ND	F1 *	2.0	0.80	ug/L		09/02/20 20:01	09/03/20 13:15	1
Methiocarb	ND	F1 F2	2.0	1.0	ug/L		09/02/20 20:01	09/03/20 13:15	1
Methomyl	ND	F1	2.0	1.0	ug/L		09/02/20 20:01	09/03/20 13:15	1
Oxamyl	ND	*	2.0	1.0	ug/L		09/02/20 20:01	09/03/20 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*104*		*80 - 120*	*09/02/20 20:01*	*09/03/20 13:15*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/01/20 10:13	09/04/20 09:36	1
Barium	ND		2.0	0.75	ug/L		09/01/20 10:13	09/04/20 09:36	1
Cadmium	ND		0.50	0.15	ug/L		09/01/20 10:13	09/04/20 09:36	1
Chromium	ND		2.0	0.33	ug/L		09/01/20 10:13	09/04/20 09:36	1
Lead	ND		0.50	0.071	ug/L		09/01/20 10:13	09/04/20 09:36	1
Selenium	ND		1.0	0.28	ug/L		09/01/20 10:13	09/04/20 09:36	1
Silver	ND		0.50	0.17	ug/L		09/01/20 10:13	09/04/20 09:36	1
Calcium	**730**		100	74	ug/L		09/01/20 10:13	09/04/20 09:36	1
Nickel	ND		1.0	0.60	ug/L		09/01/20 10:13	09/04/20 09:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		08/31/20 10:59	09/01/20 11:40	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-EB2-082820
Date Collected: 08/28/20 11:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-11
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.010	0.0050	mg/L			09/15/20 00:46	1
Cyanide, Total	ND		0.010	0.0050	mg/L		09/10/20 11:27	09/10/20 21:59	1

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-12366-1	PAD-23-24-SUMPS-0-0.5	109	96	105	96
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	108	101	105	100
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	106	96	99	96
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	108	100	103	98
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	106	96	99	97
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	107	95	102	95
410-12366-3	PAD-23-SW-0-0.5	107	94	103	98
410-12366-4	PAD-23-S-CTR-0-0.5	105	96	104	96
410-12366-5	PAD-23-24-S-0-0.5	106	96	104	96
410-12366-6	PAD-24-S-CTR-0-0.5	111	95	106	95
410-12366-7	PAD-24-24-0-S-0-0.5	108	96	106	96
410-12366-8	PAD-24-0-S-CTR-0-0.5	107	94	106	98
410-12366-9	PAD-24-0-SE-0-0.5	110	93	106	97
LCS 410-41030/5	Lab Control Sample	99	100	101	97
LCS 410-41030/7	Lab Control Sample	100	96	100	96
LCSD 410-41030/6	Lab Control Sample Dup	106	101	101	98
LCSD 410-41030/8	Lab Control Sample Dup	102	96	100	95
MB 410-41030/31	Method Blank	107	96	104	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-12366-10	PAD-TB2-082820	88	105	106	93
410-12366-11	PAD-EB2-082820	81	106	105	88
LCS 410-40536/6	Lab Control Sample	104	98	101	100
LCS 410-40536/7	Lab Control Sample	86	100	100	97
MB 410-40536/9	Method Blank	92	98	96	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(10-136)	(34-117)	(18-115)	(23-115)	(35-135)	(21-112)
410-12366-1	PAD-23-24-SUMPS-0-0.5	93	86	78	78	85	83
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	85	77	74	70	79	78

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(10-136)	(34-117)	(18-115)	(23-115)	(35-135)	(21-112)
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	88	78	75	72	79	79
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	74	66	64	63	65	70
410-12366-3	PAD-23-SW-0-0.5	58	68	66	58	71	71
410-12366-4	PAD-23-S-CTR-0-0.5	72	76	64	70	79	71
410-12366-5	PAD-23-24-S-0-0.5	42	71	69	65	44	71
410-12366-6	PAD-24-S-CTR-0-0.5	83	81	67	72	80	74
410-12366-7	PAD-24-24-0-S-0-0.5	82	75	64	72	76	72
410-12366-8	PAD-24-0-S-CTR-0-0.5	83	75	67	72	74	73
410-12366-9	PAD-24-0-SE-0-0.5	62	67	68	68	70	69
LCS 410-40483/2-A	Lab Control Sample	96	85	77	74	81	83
LCS 410-40483/3-A	Lab Control Sample	95	82	80	72	85	84
LCS 410-40970/2-A	Lab Control Sample	92	78	77	72	81	82
LCS 410-40970/5-A	Lab Control Sample	92	82	84	74	88	89
LCS 410-43084/2-A	Lab Control Sample	76	74	73	69	80	73
LCSD 410-40483/4-A	Lab Control Sample Dup	83	74	71	65	74	75
LCSD 410-40970/6-A	Lab Control Sample Dup	91	80	77	71	87	83
LCSD 410-43084/4-A	Lab Control Sample Dup	77	76	75	68	83	77
MB 410-40483/1-A	Method Blank	89	83	80	74	91	81
MB 410-40970/1-A	Method Blank	94	82	79	73	94	81
MB 410-43084/1-A	Method Blank	79	81	78	71	89	78

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHd14	TBP
Lab Sample ID	Client Sample ID	(44-102)	(10-84)	(38-113)	(10-67)	(34-128)	(18-141)
410-12366-11	PAD-EB2-082820	81	50	84	37	84	87
LCS 410-40982/2-A	Lab Control Sample	44	28	44	22	45	49
LCS 410-40982/3-A	Lab Control Sample	86	55	87	43	83	100
LCSD 410-40982/4-A	Lab Control Sample Dup	88	53	84	40	76	101
MB 410-40982/1-A	Method Blank	72	49	81	36	67	78

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Solid **Prep Type: Soluble**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	Acetone1 (10-179)	Acetone2 (10-179)								
410-12366-1	PAD-23-24-SUMPS-0-0.5	140	97								
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	100	93								
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	89	85								
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	131	101								
410-12366-3	PAD-23-SW-0-0.5	117	93								
410-12366-4	PAD-23-S-CTR-0-0.5	124	99								
410-12366-5	PAD-23-24-S-0-0.5	120	100								
410-12366-6	PAD-24-S-CTR-0-0.5	125	100								
410-12366-7	PAD-24-24-0-S-0-0.5	127	100								
410-12366-8	PAD-24-0-S-CTR-0-0.5	131	97								
410-12366-9	PAD-24-0-SE-0-0.5	112	87								
LCS 410-40089/2-A	Lab Control Sample	100	97								
MB 410-40089/1-A	Method Blank	145	113								

Surrogate Legend

Acetone = Acetone

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	Acetone1 (58-149)	Acetone2 (58-149)								
410-12366-11	PAD-EB2-082820	117	104								
LCS 410-41594/2-A	Lab Control Sample	104	84								
MB 410-41594/1-A	Method Blank	139	104								

Surrogate Legend

Acetone = Acetone

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB1 (46-152)	DCB2 (46-152)	TCX1 (19-136)	TCX2 (19-136)						
410-12366-1	PAD-23-24-SUMPS-0-0.5	88	99	84	79						
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	72	82	78	73						
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	83	90	80	76						
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	112	105	122	97						
410-12366-3	PAD-23-SW-0-0.5	115	81	68	54						
410-12366-4	PAD-23-S-CTR-0-0.5	90	82	85	78						
410-12366-5	PAD-23-24-S-0-0.5	519 X	490 X	77	68						
410-12366-5 - DL	PAD-23-24-S-0-0.5	550 X	517 X	84	90						
410-12366-6	PAD-24-S-CTR-0-0.5	1033 X	980 X	86	86						
410-12366-7	PAD-24-24-0-S-0-0.5	618 X	620 X	76	74						
410-12366-7 - DL	PAD-24-24-0-S-0-0.5	672 X	609 X	77	89						
410-12366-8	PAD-24-0-S-CTR-0-0.5	940 X	873 X	96	73						
410-12366-9	PAD-24-0-SE-0-0.5	428 X	403 X	99	51						
LCS 410-40303/2-A	Lab Control Sample	117	118	62	53						
LCS 410-42378/2-A	Lab Control Sample	96	98	74	77						
MB 410-40303/1-A	Method Blank	111	112	52	45						

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCB1 (46-152)	DCB2 (46-152)	TCX1 (19-136)	TCX2 (19-136)
MB 410-42378/1-A	Method Blank	91	96	71	71

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCB1 (32-149)	DCB2 (32-149)	TCX1 (29-129)	TCX2 (29-129)
410-12366-11	PAD-EB2-082820	25 X	21 X	55	61
LCS 410-41209/2-A	Lab Control Sample	59	69	19 X	22 X
LCSD 410-41209/3-A	Lab Control Sample Dup	71	82	27 X	31
MB 410-41209/1-A	Method Blank	70	81	33	38

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Solid — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPAA1 (27-136)	DCPAA2 (27-136)
410-12366-1	PAD-23-24-SUMPS-0-0.5	21 X	19 X
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	27	25 X
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	41	39
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	26 X	27
410-12366-3	PAD-23-SW-0-0.5	52	53
410-12366-4	PAD-23-S-CTR-0-0.5	35	34
410-12366-5	PAD-23-24-S-0-0.5	45	43
410-12366-6	PAD-24-S-CTR-0-0.5	43	42
410-12366-7	PAD-24-24-0-S-0-0.5	45	50
410-12366-8	PAD-24-0-S-CTR-0-0.5	17 X	18 X
410-12366-9	PAD-24-0-SE-0-0.5	13 X	14 X
LCS 410-43110/2-A	Lab Control Sample	50	50
MB 410-43110/1-A	Method Blank	54	56

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPAA1 (34-142)	DCPAA2 (34-142)
410-12366-11	PAD-EB2-082820	54 *3	55
LCS 410-40403/2-A	Lab Control Sample		67
LCSD 410-40403/3-A	Lab Control Sample Dup		63

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPAA1 (34-142)	DCPAA2 (34-142)
MB 410-40403/1-A	Method Blank	60	

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 531.1 - Carbamate Pesticides (HPLC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BDMC (80-120)
410-12366-11	PAD-EB2-082820	104
410-12366-11 MS	PAD-EB2-082820	105
410-12366-11 MSD	PAD-EB2-082820	107
LCS 410-40377/2-A	Lab Control Sample	103
MB 410-40377/1-A	Method Blank	105

Surrogate Legend

BDMC = 4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate

Method: 8318 - Carbamate (HPLC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BDMC (27-131)
410-12366-1	PAD-23-24-SUMPS-0-0.5	77
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	80
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	78
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	71
410-12366-3	PAD-23-SW-0-0.5	83
410-12366-4	PAD-23-S-CTR-0-0.5	71
410-12366-5	PAD-23-24-S-0-0.5	70
410-12366-6	PAD-24-S-CTR-0-0.5	73
410-12366-7	PAD-24-24-0-S-0-0.5	75
410-12366-8	PAD-24-0-S-CTR-0-0.5	81
410-12366-9	PAD-24-0-SE-0-0.5	33
LCS 410-40911/2-A	Lab Control Sample	88
MB 410-40911/1-A	Method Blank	87

Surrogate Legend

BDMC = 4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 38834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		17.6	15.4		ug/Kg	☼	87	73 - 120
1,1,1-Trichloroethane	ND		17.6	19.6		ug/Kg	☼	111	69 - 123
1,1,2,2-Tetrachloroethane	ND		17.6	16.3		ug/Kg	☼	93	69 - 125
1,1,2-Trichloroethane	ND		17.6	17.9		ug/Kg	☼	102	80 - 120
1,1-Dichloroethane	ND		17.6	19.9		ug/Kg	☼	113	79 - 120
1,1-Dichloroethene	ND		17.6	22.1		ug/Kg	☼	126	73 - 129
1,2,4-Trichlorobenzene	ND	F2 F1	17.6	7.65	J F1	ug/Kg	☼	44	56 - 130
1,2-Dibromo-3-Chloropropane	ND		17.6	13.6		ug/Kg	☼	77	48 - 134
1,2-Dibromoethane	ND		17.6	16.4		ug/Kg	☼	94	76 - 120
1,2-Dichloroethane	ND		17.6	18.5		ug/Kg	☼	105	71 - 128
1,2-Dichloropropane	ND		17.6	19.3		ug/Kg	☼	110	80 - 120
1,4-Dioxane	ND	F1	439	522		ug/Kg	☼	119	62 - 131
2-Butanone	ND	F1	132	180	F1	ug/Kg	☼	136	57 - 128
4-Methyl-2-pentanone	ND		87.9	90.1		ug/Kg	☼	103	67 - 128
Acetone	6.6	J F2 F1	132	255	F1	ug/Kg	☼	189	41 - 150
Acrylonitrile	ND		87.9	86.1		ug/Kg	☼	98	66 - 120
Benzene	ND		17.6	19.2		ug/Kg	☼	109	80 - 120
Bromoform	ND		17.6	14.1		ug/Kg	☼	80	51 - 127
Bromomethane	ND		17.6	18.3		ug/Kg	☼	104	45 - 140
Carbon disulfide	ND		17.6	19.6		ug/Kg	☼	111	64 - 133
Carbon tetrachloride	ND		17.6	19.1		ug/Kg	☼	109	64 - 134
Chlorobenzene	ND	F1	17.6	15.0		ug/Kg	☼	85	80 - 120
Chloroethane	ND		17.6	18.8		ug/Kg	☼	107	43 - 135
Chloroform	ND		17.6	19.6		ug/Kg	☼	111	80 - 120
Chloromethane	0.54	J B	17.6	17.2		ug/Kg	☼	95	56 - 120
cis-1,3-Dichloropropene	ND		17.6	17.2		ug/Kg	☼	98	66 - 120
Dibromomethane	ND		17.6	18.3		ug/Kg	☼	104	80 - 120
Dichlorodifluoromethane	ND		17.6	17.7		ug/Kg	☼	101	21 - 127
Ethyl methacrylate	ND	F2 F1	17.6	12.4		ug/Kg	☼	71	65 - 120
Ethylbenzene	ND	F1	17.6	14.6		ug/Kg	☼	83	78 - 120
Freon 113	ND		17.6	20.4		ug/Kg	☼	116	64 - 135
Methacrylonitrile	ND		132	139		ug/Kg	☼	105	76 - 123
Methyl iodide	ND		17.6	18.8		ug/Kg	☼	107	68 - 126
Methyl methacrylate	ND		17.6	20.9		ug/Kg	☼	119	69 - 120
Methylene Chloride	ND		17.6	20.4		ug/Kg	☼	116	76 - 122
Pentachloroethane	ND		17.6	15.7		ug/Kg	☼	89	68 - 126
Tetrachloroethene	ND	F1	17.6	13.8		ug/Kg	☼	79	73 - 120
Toluene	ND		17.6	16.6		ug/Kg	☼	94	80 - 120
trans-1,2-Dichloroethene	ND		17.6	20.2		ug/Kg	☼	115	80 - 125
trans-1,3-Dichloropropene	ND		17.6	15.7		ug/Kg	☼	89	68 - 122
Trichloroethene	ND		17.6	18.2		ug/Kg	☼	103	80 - 120
Trichlorofluoromethane	ND		17.6	15.1		ug/Kg	☼	86	55 - 134
Vinyl chloride	ND		17.6	19.2		ug/Kg	☼	109	52 - 120
Xylenes, Total	ND	F1	52.7	42.7		ug/Kg	☼	81	75 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*101*		*50 - 131*

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

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 38834

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*50 - 141*
Toluene-d8 (Surr)	*100*		*52 - 141*

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 38834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl acetate	ND		147	119		ug/Kg	☼	81	65 - 133
Ethyl ether	ND		17.1	16.1		ug/Kg	☼	94	59 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 38834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		17.0	13.0		ug/Kg	☼	77	73 - 120	16	30
1,1,1-Trichloroethane	ND		17.0	17.2		ug/Kg	☼	101	69 - 123	13	30
1,1,2,2-Tetrachloroethane	ND		17.0	13.5		ug/Kg	☼	79	69 - 125	19	30
1,1,2-Trichloroethane	ND		17.0	15.4		ug/Kg	☼	90	80 - 120	15	30
1,1-Dichloroethane	ND		17.0	17.6		ug/Kg	☼	103	79 - 120	12	30
1,1-Dichloroethene	ND		17.0	19.5		ug/Kg	☼	115	73 - 129	13	30
1,2,4-Trichlorobenzene	ND	F2 F1	17.0	5.48	J F2 F1	ug/Kg	☼	32	56 - 130	33	30
1,2-Dibromo-3-Chloropropane	ND		17.0	11.6		ug/Kg	☼	68	48 - 134	16	30
1,2-Dibromoethane	ND		17.0	14.3		ug/Kg	☼	84	76 - 120	14	30
1,2-Dichloroethane	ND		17.0	15.9		ug/Kg	☼	94	71 - 128	15	30
1,2-Dichloropropane	ND		17.0	16.7		ug/Kg	☼	98	80 - 120	14	30
1,4-Dioxane	ND	F1	426	595	F1	ug/Kg	☼	140	62 - 131	13	30
2-Butanone	ND	F1	128	167	F1	ug/Kg	☼	130	57 - 128	8	30
4-Methyl-2-pentanone	ND		85.1	83.6		ug/Kg	☼	98	67 - 128	8	30
Acetone	6.6	J F2 F1	128	625	E F1 F2	ug/Kg	☼	484	41 - 150	84	30
Acrylonitrile	ND		85.1	77.2		ug/Kg	☼	91	66 - 120	11	30
Benzene	ND		17.0	16.8		ug/Kg	☼	99	80 - 120	13	30
Bromoform	ND		17.0	11.4		ug/Kg	☼	67	51 - 127	21	30
Bromomethane	ND		17.0	15.5		ug/Kg	☼	91	45 - 140	17	30
Carbon disulfide	ND		17.0	17.2		ug/Kg	☼	101	64 - 133	13	30
Carbon tetrachloride	ND		17.0	16.6		ug/Kg	☼	97	64 - 134	14	30
Chlorobenzene	ND	F1	17.0	12.5	F1	ug/Kg	☼	73	80 - 120	18	30
Chloroethane	ND		17.0	16.4		ug/Kg	☼	96	43 - 135	14	30
Chloroform	ND		17.0	16.9		ug/Kg	☼	99	80 - 120	15	30
Chloromethane	0.54	J B	17.0	14.9		ug/Kg	☼	84	56 - 120	15	30
cis-1,3-Dichloropropene	ND		17.0	14.8		ug/Kg	☼	87	66 - 120	16	30

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

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 38834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		17.0	15.9		ug/Kg	☼	94	80 - 120	14	30
Dichlorodifluoromethane	ND		17.0	15.0		ug/Kg	☼	88	21 - 127	16	30
Ethyl methacrylate	ND	F2 F1	17.0	8.32	F2 F1	ug/Kg	☼	49	65 - 120	39	30
Ethylbenzene	ND	F1	17.0	12.5	F1	ug/Kg	☼	74	78 - 120	15	30
Freon 113	ND		17.0	17.4		ug/Kg	☼	102	64 - 135	16	30
Methacrylonitrile	ND		128	121		ug/Kg	☼	95	76 - 123	14	30
Methyl iodide	ND		17.0	16.4		ug/Kg	☼	97	68 - 126	14	30
Methyl methacrylate	ND		17.0	20.3		ug/Kg	☼	119	69 - 120	3	30
Methylene Chloride	ND		17.0	17.7		ug/Kg	☼	104	76 - 122	14	30
Pentachloroethane	ND		17.0	14.4		ug/Kg	☼	85	68 - 126	8	30
Tetrachloroethene	ND	F1	17.0	11.8	F1	ug/Kg	☼	69	73 - 120	16	30
Toluene	ND		17.0	14.4		ug/Kg	☼	84	80 - 120	14	30
trans-1,2-Dichloroethene	ND		17.0	17.8		ug/Kg	☼	105	80 - 125	13	30
trans-1,3-Dichloropropene	ND		17.0	13.2		ug/Kg	☼	77	68 - 122	17	30
Trichloroethene	ND		17.0	16.1		ug/Kg	☼	94	80 - 120	12	30
Trichlorofluoromethane	ND		17.0	17.6		ug/Kg	☼	103	55 - 134	15	30
Vinyl chloride	ND		17.0	16.9		ug/Kg	☼	99	52 - 120	13	30
Xylenes, Total	ND	F1	51.1	36.4	F1	ug/Kg	☼	71	75 - 120	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*
Dibromofluoromethane (Surr)	*103*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 38834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate	ND		151	123		ug/Kg	☼	82	65 - 133	4	30
Ethyl ether	ND		17.6	17.7		ug/Kg	☼	100	59 - 135	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-40536/9
Matrix: Water
Analysis Batch: 40536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	0.30	ug/L			09/03/20 12:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/03/20 12:30	1
Acetone	ND		20	0.70	ug/L			09/03/20 12:30	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

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

Lab Sample ID: MB 410-40536/9
Matrix: Water
Analysis Batch: 40536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		20	0.30	ug/L			09/03/20 12:30	1
Benzene	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Bromoform	ND		4.0	1.0	ug/L			09/03/20 12:30	1
Bromomethane	ND		1.0	0.30	ug/L			09/03/20 12:30	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/03/20 12:30	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/03/20 12:30	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/03/20 12:30	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Chloroethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Chloroform	ND		1.0	0.20	ug/L			09/03/20 12:30	1
1,4-Dioxane	ND		250	29	ug/L			09/03/20 12:30	1
Chloromethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Dibromomethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/03/20 12:30	1
Ethyl ether	ND		5.0	0.20	ug/L			09/03/20 12:30	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/03/20 12:30	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/03/20 12:30	1
Freon 113	ND		10	0.20	ug/L			09/03/20 12:30	1
Methacrylonitrile	ND		50	6.0	ug/L			09/03/20 12:30	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/03/20 12:30	1
Methyl iodide	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/03/20 12:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/03/20 12:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/03/20 12:30	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Toluene	ND		1.0	0.20	ug/L			09/03/20 12:30	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/03/20 12:30	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/20 12:30	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/03/20 12:30	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/03/20 12:30	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Trichloroethene	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/03/20 12:30	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/03/20 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/03/20 12:30*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*09/03/20 12:30*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/03/20 12:30*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/03/20 12:30*	*1*

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

Lab Sample ID: LCS 410-40536/6
Matrix: Water
Analysis Batch: 40536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	150	137		ug/L		91	59 - 135
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	47 - 131
Acetone	150	152		ug/L		101	54 - 157
1,2-Dibromoethane	20.0	20.2		ug/L		101	77 - 120
Acrylonitrile	100	90.7		ug/L		91	60 - 129
Benzene	20.0	20.6		ug/L		103	80 - 120
Bromoform	20.0	21.1		ug/L		105	51 - 120
Bromomethane	20.0	21.1		ug/L		106	53 - 128
1,1-Dichloroethane	20.0	19.9		ug/L		99	80 - 120
Carbon disulfide	20.0	19.4		ug/L		97	65 - 128
1,2-Dichloroethane	20.0	20.5		ug/L		103	73 - 124
Carbon tetrachloride	20.0	20.8		ug/L		104	64 - 134
Chlorobenzene	20.0	21.8		ug/L		109	80 - 120
1,1-Dichloroethene	20.0	20.3		ug/L		101	80 - 131
Chloroethane	20.0	20.4		ug/L		102	55 - 123
1,2-Dichloropropane	20.0	20.5		ug/L		102	80 - 120
Chloroform	20.0	21.2		ug/L		106	80 - 120
1,4-Dioxane	500	550		ug/L		110	63 - 146
Chloromethane	20.0	15.8		ug/L		79	56 - 121
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	75 - 120
Dibromomethane	20.0	21.3		ug/L		106	80 - 120
Dichlorodifluoromethane	20.0	13.7		ug/L		69	41 - 127
Ethyl ether	20.0	17.8		ug/L		89	59 - 141
Ethyl methacrylate	20.0	17.1		ug/L		86	59 - 141
Ethylbenzene	20.0	20.2		ug/L		101	80 - 120
Freon 113	20.0	18.3		ug/L		92	73 - 139
Methacrylonitrile	150	143		ug/L		95	73 - 124
4-Methyl-2-pentanone	100	92.2		ug/L		92	62 - 133
Methyl iodide	20.0	17.6		ug/L		88	73 - 125
Methyl methacrylate	20.0	17.9		ug/L		89	61 - 121
1,1,1,2-Tetrachloroethane	20.0	21.1		ug/L		106	78 - 120
Methylene Chloride	20.0	20.6		ug/L		103	80 - 120
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	72 - 120
Pentachloroethane	20.0	22.2		ug/L		111	70 - 120
Tetrachloroethene	20.0	18.6		ug/L		93	80 - 120
Toluene	20.0	20.5		ug/L		102	80 - 120
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	80 - 126
trans-1,3-Dichloropropene	20.0	19.3		ug/L		97	67 - 120
1,2,4-Trichlorobenzene	20.0	19.1		ug/L		95	63 - 120
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	67 - 126
1,1,2-Trichloroethane	20.0	21.7		ug/L		109	80 - 120
Trichloroethene	20.0	20.2		ug/L		101	80 - 120
Trichlorofluoromethane	20.0	21.3		ug/L		106	55 - 135
Vinyl chloride	20.0	16.8		ug/L		84	56 - 120
Xylenes, Total	60.0	61.1		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: LCS 410-40536/6
Matrix: Water
Analysis Batch: 40536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCS 410-40536/7
Matrix: Water
Analysis Batch: 40536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethyl acetate			20.0	17.0		ug/L		85	67 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 410-41030/31
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	2.0	ug/Kg			09/04/20 13:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Acetone	ND		20	6.0	ug/Kg			09/04/20 13:44	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Acrylonitrile	ND		20	0.80	ug/Kg			09/04/20 13:44	1
Benzene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Bromoform	ND		10	5.0	ug/Kg			09/04/20 13:44	1
Bromomethane	ND		5.0	0.70	ug/Kg			09/04/20 13:44	1
1,1-Dichloroethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Carbon disulfide	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Chlorobenzene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
1,1-Dichloroethene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Chloroethane	ND		5.0	1.0	ug/Kg			09/04/20 13:44	1
1,2-Dichloropropane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Chloroform	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
1,4-Dioxane	ND		250	37	ug/Kg			09/04/20 13:44	1
Chloromethane	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
cis-1,3-Dichloropropene	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Dibromomethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Dichlorodifluoromethane	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
Ethyl acetate	ND		5.0	1.0	ug/Kg			09/04/20 13:44	1
Ethyl ether	ND		5.0	1.0	ug/Kg			09/04/20 13:44	1
Ethyl methacrylate	ND		5.0	1.0	ug/Kg			09/04/20 13:44	1
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1

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

Lab Sample ID: MB 410-41030/31
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Freon 113	ND		10	0.60	ug/Kg			09/04/20 13:44	1
Methacrylonitrile	ND		50	8.0	ug/Kg			09/04/20 13:44	1
4-Methyl-2-pentanone	ND		10	1.0	ug/Kg			09/04/20 13:44	1
Methyl iodide	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Methyl methacrylate	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Methylene Chloride	ND		5.0	2.0	ug/Kg			09/04/20 13:44	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Pentachloroethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Tetrachloroethene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Toluene	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
trans-1,2-Dichloroethene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
1,2,4-Trichlorobenzene	ND		10	5.0	ug/Kg			09/04/20 13:44	1
1,1,1-Trichloroethane	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Trichloroethene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Trichlorofluoromethane	ND		5.0	0.70	ug/Kg			09/04/20 13:44	1
Vinyl chloride	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/04/20 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*		*09/04/20 13:44*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*		*09/04/20 13:44*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*		*09/04/20 13:44*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*		*09/04/20 13:44*	*1*

Lab Sample ID: LCS 410-41030/5
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	150	133		ug/Kg		89	57 - 128
1,2-Dibromo-3-Chloropropane	20.0	18.1		ug/Kg		91	48 - 134
Acetone	150	141		ug/Kg		94	41 - 150
1,2-Dibromoethane	20.0	20.5		ug/Kg		102	76 - 120
Acrylonitrile	100	91.6		ug/Kg		92	66 - 120
Benzene	20.0	23.0		ug/Kg		115	80 - 120
Bromoform	20.0	18.6		ug/Kg		93	51 - 127
Bromomethane	20.0	21.2		ug/Kg		106	45 - 140
1,1-Dichloroethane	20.0	23.1		ug/Kg		116	79 - 120
Carbon disulfide	20.0	23.6		ug/Kg		118	64 - 133
1,2-Dichloroethane	20.0	21.3		ug/Kg		107	71 - 128
Carbon tetrachloride	20.0	22.9		ug/Kg		114	64 - 134
Chlorobenzene	20.0	21.7		ug/Kg		108	80 - 120
1,1-Dichloroethene	20.0	24.9		ug/Kg		125	73 - 129
Chloroethane	20.0	21.2		ug/Kg		106	43 - 135
1,2-Dichloropropane	20.0	22.8		ug/Kg		114	80 - 120

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

Lab Sample ID: LCS 410-41030/5
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	20.0	23.1		ug/Kg		115	80 - 120
1,4-Dioxane	500	599		ug/Kg		120	62 - 131
Chloromethane	20.0	20.9		ug/Kg		105	56 - 120
cis-1,3-Dichloropropene	20.0	21.7		ug/Kg		109	66 - 120
Dibromomethane	20.0	21.8		ug/Kg		109	80 - 120
Dichlorodifluoromethane	20.0	17.6		ug/Kg		88	21 - 127
Ethyl methacrylate	20.0	17.7		ug/Kg		88	65 - 120
Ethylbenzene	20.0	21.4		ug/Kg		107	78 - 120
Freon 113	20.0	21.7		ug/Kg		108	64 - 135
Methacrylonitrile	150	149		ug/Kg		99	76 - 123
4-Methyl-2-pentanone	100	92.3		ug/Kg		92	67 - 128
Methyl iodide	20.0	21.5		ug/Kg		108	68 - 126
Methyl methacrylate	20.0	20.1		ug/Kg		100	69 - 120
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/Kg		102	73 - 120
Methylene Chloride	20.0	23.2		ug/Kg		116	76 - 122
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/Kg		101	69 - 125
Pentachloroethane	20.0	22.9		ug/Kg		115	68 - 126
Tetrachloroethene	20.0	21.4		ug/Kg		107	73 - 120
Toluene	20.0	21.9		ug/Kg		110	80 - 120
trans-1,2-Dichloroethene	20.0	24.0		ug/Kg		120	80 - 126
trans-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	68 - 122
1,2,4-Trichlorobenzene	20.0	20.3		ug/Kg		101	56 - 130
1,1,1-Trichloroethane	20.0	22.7		ug/Kg		114	69 - 123
1,1,2-Trichloroethane	20.0	21.7		ug/Kg		108	80 - 120
Trichloroethene	20.0	23.3		ug/Kg		117	80 - 120
Trichlorofluoromethane	20.0	22.1		ug/Kg		110	55 - 134
Vinyl chloride	20.0	21.0		ug/Kg		105	52 - 120
Xylenes, Total	60.0	64.6		ug/Kg		108	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCS 410-41030/7
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl acetate	20.0	18.9		ug/Kg		94	65 - 133
Ethyl ether	20.0	23.5		ug/Kg		118	59 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 410-41030/6
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone			150	152		ug/Kg		102	57 - 128	14	30
1,2-Dibromo-3-Chloropropane			20.0	20.4		ug/Kg		102	48 - 134	12	30
Acetone			150	131		ug/Kg		87	41 - 150	7	30
1,2-Dibromoethane			20.0	21.6		ug/Kg		108	76 - 120	5	30
Acrylonitrile			100	101		ug/Kg		101	66 - 120	10	30
Benzene			20.0	23.1		ug/Kg		115	80 - 120	0	30
Bromoform			20.0	20.0		ug/Kg		100	51 - 127	7	30
Bromomethane			20.0	21.2		ug/Kg		106	45 - 140	0	30
1,1-Dichloroethane			20.0	23.3		ug/Kg		117	79 - 120	1	30
Carbon disulfide			20.0	23.5		ug/Kg		118	64 - 133	0	30
1,2-Dichloroethane			20.0	22.0		ug/Kg		110	71 - 128	3	30
Carbon tetrachloride			20.0	22.7		ug/Kg		113	64 - 134	1	30
Chlorobenzene			20.0	21.6		ug/Kg		108	80 - 120	0	30
1,1-Dichloroethene			20.0	24.8		ug/Kg		124	73 - 129	1	30
Chloroethane			20.0	21.3		ug/Kg		106	43 - 135	0	30
1,2-Dichloropropane			20.0	23.0		ug/Kg		115	80 - 120	1	30
Chloroform			20.0	23.2		ug/Kg		116	80 - 120	0	30
1,4-Dioxane			500	515		ug/Kg		103	62 - 131	15	30
Chloromethane			20.0	21.1		ug/Kg		105	56 - 120	1	30
cis-1,3-Dichloropropene			20.0	22.4		ug/Kg		112	66 - 120	3	30
Dibromomethane			20.0	22.7		ug/Kg		114	80 - 120	4	30
Dichlorodifluoromethane			20.0	17.1		ug/Kg		86	21 - 127	3	30
Ethyl methacrylate			20.0	19.7		ug/Kg		99	65 - 120	11	30
Ethylbenzene			20.0	21.4		ug/Kg		107	78 - 120	0	30
Freon 113			20.0	21.4		ug/Kg		107	64 - 135	2	30
Methacrylonitrile			150	163		ug/Kg		109	76 - 123	9	30
4-Methyl-2-pentanone			100	106		ug/Kg		106	67 - 128	14	30
Methyl iodide			20.0	21.8		ug/Kg		109	68 - 126	1	30
Methyl methacrylate			20.0	22.1		ug/Kg		111	69 - 120	10	30
1,1,1,2-Tetrachloroethane			20.0	20.7		ug/Kg		104	73 - 120	2	30
Methylene Chloride			20.0	23.6		ug/Kg		118	76 - 122	1	30
1,1,2,2-Tetrachloroethane			20.0	21.8		ug/Kg		109	69 - 125	8	30
Pentachloroethane			20.0	22.6		ug/Kg		113	68 - 126	1	30
Tetrachloroethene			20.0	21.4		ug/Kg		107	73 - 120	0	30
Toluene			20.0	21.6		ug/Kg		108	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	24.0		ug/Kg		120	80 - 126	0	30
trans-1,3-Dichloropropene			20.0	21.1		ug/Kg		106	68 - 122	5	30
1,2,4-Trichlorobenzene			20.0	20.4		ug/Kg		102	56 - 130	1	30
1,1,1-Trichloroethane			20.0	22.8		ug/Kg		114	69 - 123	0	30
1,1,2-Trichloroethane			20.0	22.6		ug/Kg		113	80 - 120	4	30
Trichloroethene			20.0	22.8		ug/Kg		114	80 - 120	2	30
Trichlorofluoromethane			20.0	21.8		ug/Kg		109	55 - 134	1	30
Vinyl chloride			20.0	20.7		ug/Kg		104	52 - 120	1	30
Xylenes, Total			60.0	64.1		ug/Kg		107	75 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*101*		*50 - 131*

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

Lab Sample ID: LCSD 410-41030/6
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-41030/8
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate			20.0	18.5		ug/Kg		93	65 - 133	2	30
Ethyl ether			20.0	23.0		ug/Kg		115	59 - 135	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-40483/1-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	ND		330	100	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2-Chloronaphthalene	ND		33	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2-Chlorophenol	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,2-Dichlorobenzene	ND		50	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,3-Dichlorobenzene	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,4-Dichlorobenzene	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4-Dichlorophenol	ND		43	20	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Bromophenyl-phenylether	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,6-Dichlorophenol	ND		50	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Chloro-3-methylphenol	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Chloroaniline	ND		170	33	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4-Dimethylphenol	ND		67	30	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4-Dinitrophenol	ND		1000	330	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4-Dinitrotoluene	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Acetophenone	ND		50	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,6-Dinitrotoluene	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Aniline	ND		500	170	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Anthracene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Benzo[a]anthracene	ND		17	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Butylbenzylphthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Chrysene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Di-n-butyl phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Di-n-octyl phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40483/1-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		17	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Diethyl phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Dimethyl phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Fluoranthene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachlorobenzene	ND		17	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachlorobutadiene	ND		77	37	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachlorocyclopentadiene	ND		500	200	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
3-Methylcholanthrene	ND		57	27	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachloroethane	ND		170	33	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2-Methylphenol	ND		67	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachloropropene	ND		330	100	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Methylphenol	ND		50	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Indeno[1,2,3-cd]pyrene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Isosafrole	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Nitroaniline	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Methapyrilene	ND		5000	1700	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
5-Nitro-o-toluidine	ND		500	170	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Nitrophenol	ND		500	170	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosodiethylamine	ND		43	20	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Naphthalene	ND		17	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosodi-n-butylamine	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Nitrobenzene	ND		67	27	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosodi-n-propylamine	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosopiperidine	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosopyrrolidine	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pentachlorobenzene	ND		43	20	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pentachloronitrobenzene	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pentachlorophenol	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Phenacetin	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Phenanthrene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Phenol	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pronamide	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Bis(2-chloroethoxy)methane	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Bis(2-chloroethyl)ether	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pyrene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Bis(2-ethylhexyl) phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pyridine	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Safrole, Total	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,2,4,5-Tetrachlorobenzene	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4,4'-Methylene bis(2-chloroaniline)	ND		500	170	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,2,4-Trichlorobenzene	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4,5-Trichlorophenol	ND		67	30	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4,6-Trichlorophenol	ND		57	27	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,2'-oxybis[1-chloropropane]	ND		43	20	ug/Kg		09/03/20 09:00	09/05/20 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*34 - 117*	*09/03/20 09:00*	*09/05/20 09:58*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*10 - 136*	*09/03/20 09:00*	*09/05/20 09:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40483/1-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40483

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	80		18 - 115	09/03/20 09:00	09/05/20 09:58	1
Nitrobenzene-d5 (Surr)	74		23 - 115	09/03/20 09:00	09/05/20 09:58	1
p-Terphenyl-d14 (Surr)	91		35 - 135	09/03/20 09:00	09/05/20 09:58	1
Phenol-d5 (Surr)	81		21 - 112	09/03/20 09:00	09/05/20 09:58	1

Lab Sample ID: LCS 410-40483/2-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	1670	1290		ug/Kg		77	48 - 123
2-Chlorophenol	1670	1320		ug/Kg		79	51 - 109
1,2-Dichlorobenzene	1670	1180		ug/Kg		71	38 - 106
1,3-Dichlorobenzene	1670	1180		ug/Kg		71	36 - 103
1,4-Dichlorobenzene	1670	1200		ug/Kg		72	25 - 127
2,4-Dichlorophenol	1670	1450		ug/Kg		87	57 - 115
4-Bromophenyl-phenylether	1680	1440		ug/Kg		86	64 - 120
4-Chloro-3-methylphenol	1670	1430		ug/Kg		86	62 - 117
4-Chloroaniline	1670	1110		ug/Kg		67	24 - 105
2,4-Dimethylphenol	1670	1190		ug/Kg		71	47 - 95
2,4-Dinitrophenol	3340	2290		ug/Kg		68	34 - 136
2,4-Dinitrotoluene	1680	1400		ug/Kg		83	61 - 121
Acetophenone	1670	1290		ug/Kg		77	48 - 109
2,6-Dinitrotoluene	1680	1530		ug/Kg		91	66 - 122
Aniline	1670	916		ug/Kg		55	37 - 93
Anthracene	1670	1500		ug/Kg		90	67 - 120
Benzo[a]anthracene	1670	1340		ug/Kg		80	68 - 120
Benzo[a]pyrene	1670	1460		ug/Kg		87	68 - 119
Butylbenzylphthalate	1670	1390		ug/Kg		84	69 - 125
Chrysene	1670	1340		ug/Kg		80	66 - 111
Di-n-butyl phthalate	1670	1440		ug/Kg		86	70 - 126
Di-n-octyl phthalate	1670	1420		ug/Kg		85	65 - 139
Dibenz(a,h)anthracene	1670	1630		ug/Kg		97	69 - 135
Diethyl phthalate	1670	1400		ug/Kg		84	68 - 116
Dimethyl phthalate	1670	1370		ug/Kg		82	66 - 113
Fluoranthene	1670	1460		ug/Kg		87	65 - 114
Hexachlorobenzene	1670	1440		ug/Kg		86	62 - 124
Hexachlorobutadiene	1680	1280		ug/Kg		76	39 - 120
Hexachlorocyclopentadiene	3350	2240		ug/Kg		67	13 - 115
Hexachloroethane	1680	1210		ug/Kg		72	30 - 112
2-Methylphenol	1670	1390		ug/Kg		83	52 - 116
4-Methylphenol	1670	1260		ug/Kg		75	52 - 121
Indeno[1,2,3-cd]pyrene	1670	1530		ug/Kg		92	64 - 130
4-Nitroaniline	1670	1070		ug/Kg		64	45 - 99
4-Nitrophenol	1670	1300		ug/Kg		78	54 - 125
Naphthalene	1680	1370		ug/Kg		81	49 - 104
Nitrobenzene	1670	1280		ug/Kg		77	41 - 118
N-Nitrosodi-n-propylamine	1670	1190		ug/Kg		72	49 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40483/2-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	1680	1280		ug/Kg		76	40 - 131
Phenanthrene	1670	1520		ug/Kg		91	67 - 116
Phenol	1670	1330		ug/Kg		79	57 - 107
Bis(2-chloroethoxy)methane	1680	1270		ug/Kg		76	52 - 110
Bis(2-chloroethyl)ether	1680	1240		ug/Kg		74	44 - 104
Pyrene	1680	1330		ug/Kg		79	67 - 109
Bis(2-ethylhexyl) phthalate	1680	1350		ug/Kg		80	65 - 132
Pyridine	1670	770		ug/Kg		46	10 - 117
1,2,4,5-Tetrachlorobenzene	1670	1380		ug/Kg		82	53 - 111
1,2,4-Trichlorobenzene	1670	1350		ug/Kg		81	46 - 109
2,4,5-Trichlorophenol	1670	1410		ug/Kg		84	62 - 121
2,4,6-Trichlorophenol	1670	1440		ug/Kg		86	60 - 120
2,2'-oxybis[1-chloropropane]	1670	1100		ug/Kg		66	44 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*96*		*10 - 136*
2-Fluorophenol (Surr)	*77*		*18 - 115*
Nitrobenzene-d5 (Surr)	*74*		*23 - 115*
p-Terphenyl-d14 (Surr)	*81*		*35 - 135*
Phenol-d5 (Surr)	*83*		*21 - 112*

Lab Sample ID: LCS 410-40483/3-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Acetylaminofluorene	1670	1470		ug/Kg		88	75 - 137
2,6-Dichlorophenol	1670	1400		ug/Kg		83	53 - 122
3-Methylcholanthrene	1680	1250	*	ug/Kg		74	86 - 151
Hexachloropropene	1670	1480		ug/Kg		89	37 - 105
Isosafrole	1680	1410		ug/Kg		84	64 - 127
Methapyrilene	13300	10000	E	ug/Kg		75	70 - 130
5-Nitro-o-toluidine	1670	1210		ug/Kg		73	10 - 95
N-Nitrosodiethylamine	1670	1300		ug/Kg		78	36 - 118
N-Nitrosodi-n-butylamine	1680	1070		ug/Kg		63	37 - 108
N-Nitrosopiperidine	1670	1340		ug/Kg		80	51 - 111
N-Nitrosopyrrolidine	1680	1380		ug/Kg		82	51 - 121
Pentachlorobenzene	1670	1400		ug/Kg		84	52 - 130
Pentachloronitrobenzene	1670	1350		ug/Kg		81	56 - 134
Phenacetin	1680	1520		ug/Kg		91	74 - 130
Pronamide	1670	1580		ug/Kg		94	75 - 136
Safrole, Total	1670	1320		ug/Kg		79	48 - 124
4,4'-Methylene bis(2-chloroaniline)	1670	894		ug/Kg		54	24 - 114

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*34 - 117*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40483/3-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*95*		*10 - 136*
2-Fluorophenol (Surr)	*80*		*18 - 115*
Nitrobenzene-d5 (Surr)	*72*		*23 - 115*
p-Terphenyl-d14 (Surr)	*85*		*35 - 135*
Phenol-d5 (Surr)	*84*		*21 - 112*

Lab Sample ID: LCSD 410-40483/4-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene			1670	1270		ug/Kg		76	75 - 137	14	30
2,6-Dichlorophenol			1670	1250		ug/Kg		75	53 - 122	11	30
3-Methylcholanthrene			1680	1150	*	ug/Kg		69	86 - 151	8	30
Hexachloropropene			1670	1340		ug/Kg		80	37 - 105	10	30
Isosafrole			1680	1280		ug/Kg		77	64 - 127	9	30
Methapyrilene			13300	9450	E	ug/Kg		71	70 - 130	6	30
5-Nitro-o-toluidine			1670	1130		ug/Kg		67	10 - 95	7	30
N-Nitrosodiethylamine			1670	1170		ug/Kg		70	36 - 118	11	30
N-Nitrosodi-n-butylamine			1680	991		ug/Kg		59	37 - 108	7	30
N-Nitrosopiperidine			1670	1210		ug/Kg		72	51 - 111	10	30
N-Nitrosopyrrolidine			1680	1220		ug/Kg		73	51 - 121	12	30
Pentachlorobenzene			1670	1250		ug/Kg		74	52 - 130	12	30
Pentachloronitrobenzene			1670	1200		ug/Kg		72	56 - 134	12	30
Phenacetin			1680	1340		ug/Kg		80	74 - 130	12	30
Pronamide			1670	1380		ug/Kg		83	75 - 136	13	30
Safrole, Total			1670	1210		ug/Kg		72	48 - 124	8	30
4,4'-Methylene bis(2-chloroaniline)			1670	841		ug/Kg		50	24 - 114	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	*74*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 136*
2-Fluorophenol (Surr)	*71*		*18 - 115*
Nitrobenzene-d5 (Surr)	*65*		*23 - 115*
p-Terphenyl-d14 (Surr)	*74*		*35 - 135*
Phenol-d5 (Surr)	*75*		*21 - 112*

Lab Sample ID: MB 410-40970/1-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	ND		330	100	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2-Chloronaphthalene	ND		33	6.7	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2-Chlorophenol	ND		37	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
1,2-Dichlorobenzene	ND		50	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
1,3-Dichlorobenzene	ND		37	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40970/1-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		37	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,4-Dichlorophenol	ND		43	20	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
4-Bromophenyl-phenylether	ND		50	23	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,6-Dichlorophenol	ND		50	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
4-Chloro-3-methylphenol	ND		50	23	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
4-Chloroaniline	ND		170	33	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,4-Dimethylphenol	ND		67	30	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,4-Dinitrophenol	ND		1000	330	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,4-Dinitrotoluene	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Acetophenone	ND		50	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,6-Dinitrotoluene	ND		50	23	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Aniline	ND		500	170	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Anthracene	ND		17	3.3	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Benzo[a]anthracene	ND		17	6.7	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Butylbenzylphthalate	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Chrysene	ND		17	3.3	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Di-n-butyl phthalate	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Di-n-octyl phthalate	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Dibenz(a,h)anthracene	ND		17	6.7	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Diethyl phthalate	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Dimethyl phthalate	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Fluoranthene	ND		17	3.3	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Hexachlorobenzene	ND		17	6.7	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Hexachlorobutadiene	ND		77	37	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Hexachlorocyclopentadiene	ND		500	200	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
3-Methylcholanthrene	ND		57	27	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Hexachloroethane	ND		170	33	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2-Methylphenol	ND		67	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Hexachloropropene	ND		330	100	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
4-Methylphenol	ND		50	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Indeno[1,2,3-cd]pyrene	ND		17	3.3	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Isosafrole	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
4-Nitroaniline	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Methapyrilene	ND		5000	1700	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
5-Nitro-o-toluidine	ND		500	170	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
4-Nitrophenol	ND		500	170	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
N-Nitrosodiethylamine	ND		43	20	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Naphthalene	ND		17	6.7	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
N-Nitrosodi-n-butylamine	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Nitrobenzene	ND		67	27	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
N-Nitrosodi-n-propylamine	ND		50	23	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
N-Nitrosopiperidine	ND		37	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
N-Nitrosopyrrolidine	ND		50	23	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Pentachlorobenzene	ND		43	20	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Pentachloronitrobenzene	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Pentachlorophenol	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Phenacetin	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Phenanthrene	ND		17	3.3	ug/Kg		09/04/20 10:00	09/06/20 13:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40970/1-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		37	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Pronamide	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Bis(2-chloroethoxy)methane	ND		37	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Bis(2-chloroethyl)ether	ND		50	23	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Pyrene	ND		17	3.3	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Bis(2-ethylhexyl) phthalate	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Pyridine	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
Safrole, Total	ND		170	67	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
1,2,4,5-Tetrachlorobenzene	ND		37	17	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
4,4'-Methylene bis(2-chloroaniline)	ND		500	170	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
1,2,4-Trichlorobenzene	ND		50	23	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,4,5-Trichlorophenol	ND		67	30	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,4,6-Trichlorophenol	ND		57	27	ug/Kg		09/04/20 10:00	09/06/20 13:32	1
2,2'-oxybis[1-chloropropane]	ND		43	20	ug/Kg		09/04/20 10:00	09/06/20 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*34 - 117*	*09/04/20 10:00*	*09/06/20 13:32*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*10 - 136*	*09/04/20 10:00*	*09/06/20 13:32*	*1*
2-Fluorophenol (Surr)	*79*		*18 - 115*	*09/04/20 10:00*	*09/06/20 13:32*	*1*
Nitrobenzene-d5 (Surr)	*73*		*23 - 115*	*09/04/20 10:00*	*09/06/20 13:32*	*1*
p-Terphenyl-d14 (Surr)	*94*		*35 - 135*	*09/04/20 10:00*	*09/06/20 13:32*	*1*
Phenol-d5 (Surr)	*81*		*21 - 112*	*09/04/20 10:00*	*09/06/20 13:32*	*1*

Lab Sample ID: LCS 410-40970/2-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	1670	1430		ug/Kg		86	48 - 123
2-Chlorophenol	1670	1370		ug/Kg		82	51 - 109
1,2-Dichlorobenzene	1670	1170		ug/Kg		70	38 - 106
1,3-Dichlorobenzene	1670	1180		ug/Kg		71	36 - 103
1,4-Dichlorobenzene	1670	1160		ug/Kg		70	25 - 127
2,4-Dichlorophenol	1670	1420		ug/Kg		85	57 - 115
4-Bromophenyl-phenylether	1680	1410		ug/Kg		84	64 - 120
4-Chloro-3-methylphenol	1670	1440		ug/Kg		87	62 - 117
4-Chloroaniline	1670	926		ug/Kg		56	24 - 105
2,4-Dimethylphenol	1670	1180		ug/Kg		71	47 - 95
2,4-Dinitrophenol	3340	2460		ug/Kg		73	34 - 136
2,4-Dinitrotoluene	1680	1360		ug/Kg		81	61 - 121
Acetophenone	1670	1280		ug/Kg		77	48 - 109
2,6-Dinitrotoluene	1680	1450		ug/Kg		86	66 - 122
Aniline	1670	947		ug/Kg		57	37 - 93
Anthracene	1670	1490		ug/Kg		89	67 - 120
Benzo[a]anthracene	1670	1360		ug/Kg		82	68 - 120
Benzo[a]pyrene	1670	1400		ug/Kg		84	68 - 119
Butylbenzylphthalate	1670	1460		ug/Kg		87	69 - 125
Chrysene	1670	1340		ug/Kg		80	66 - 111

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40970/2-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	1670	1500		ug/Kg		89	70 - 126
Di-n-octyl phthalate	1670	1560		ug/Kg		93	65 - 139
Dibenz(a,h)anthracene	1670	1550		ug/Kg		92	69 - 135
Diethyl phthalate	1670	1370		ug/Kg		82	68 - 116
Dimethyl phthalate	1670	1330		ug/Kg		80	66 - 113
Fluoranthene	1670	1410		ug/Kg		84	65 - 114
Hexachlorobenzene	1670	1390		ug/Kg		83	62 - 124
Hexachlorobutadiene	1680	1310		ug/Kg		78	39 - 120
Hexachlorocyclopentadiene	3350	2260		ug/Kg		68	13 - 115
Hexachloroethane	1680	1210		ug/Kg		72	30 - 112
2-Methylphenol	1670	1430		ug/Kg		85	52 - 116
4-Methylphenol	1670	1310		ug/Kg		78	52 - 121
Indeno[1,2,3-cd]pyrene	1670	1430		ug/Kg		86	64 - 130
4-Nitroaniline	1670	1120		ug/Kg		67	45 - 99
4-Nitrophenol	1670	1180		ug/Kg		71	54 - 125
Naphthalene	1680	1350		ug/Kg		81	49 - 104
Nitrobenzene	1670	1270		ug/Kg		76	41 - 118
N-Nitrosodi-n-propylamine	1670	1230		ug/Kg		74	49 - 108
Pentachlorophenol	1680	1260		ug/Kg		75	40 - 131
Phenanthrene	1670	1460		ug/Kg		87	67 - 116
Phenol	1670	1380		ug/Kg		83	57 - 107
Bis(2-chloroethoxy)methane	1680	1300		ug/Kg		77	52 - 110
Bis(2-chloroethyl)ether	1680	1260		ug/Kg		75	44 - 104
Pyrene	1680	1350		ug/Kg		80	67 - 109
Bis(2-ethylhexyl) phthalate	1680	1480		ug/Kg		88	65 - 132
Pyridine	1670	930		ug/Kg		56	10 - 117
1,2,4,5-Tetrachlorobenzene	1670	1310		ug/Kg		79	53 - 111
1,2,4-Trichlorobenzene	1670	1330		ug/Kg		80	46 - 109
2,4,5-Trichlorophenol	1670	1430		ug/Kg		85	62 - 121
2,4,6-Trichlorophenol	1670	1390		ug/Kg		83	60 - 120
2,2'-oxybis[1-chloropropane]	1670	1160		ug/Kg		69	44 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*92*		*10 - 136*
2-Fluorophenol (Surr)	*77*		*18 - 115*
Nitrobenzene-d5 (Surr)	*72*		*23 - 115*
p-Terphenyl-d14 (Surr)	*81*		*35 - 135*
Phenol-d5 (Surr)	*82*		*21 - 112*

Lab Sample ID: LCS 410-40970/5-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Acetylaminofluorene	1670	1550		ug/Kg		93	75 - 137
2,6-Dichlorophenol	1670	1370		ug/Kg		82	53 - 122
3-Methylcholanthrene	1680	1550		ug/Kg		92	86 - 151

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40970/5-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachloropropene	1670	1620		ug/Kg		97	37 - 105
Isosafrole	1680	1410		ug/Kg		84	64 - 127
Methapyrilene	13300	10700	E	ug/Kg		81	70 - 130
5-Nitro-o-toluidine	1670	1360		ug/Kg		82	10 - 95
N-Nitrosodiethylamine	1670	1370		ug/Kg		82	36 - 118
N-Nitrosodi-n-butylamine	1680	1160		ug/Kg		69	37 - 108
N-Nitrosopiperidine	1670	1380		ug/Kg		83	51 - 111
N-Nitrosopyrrolidine	1680	1450		ug/Kg		86	51 - 121
Pentachlorobenzene	1670	1430		ug/Kg		85	52 - 130
Pentachloronitrobenzene	1670	1330		ug/Kg		80	56 - 134
Phenacetin	1680	1540		ug/Kg		92	74 - 130
Pronamide	1670	1620		ug/Kg		97	75 - 136
Safrole, Total	1670	1360		ug/Kg		81	48 - 124
4,4'-Methylene bis(2-chloroaniline)	1670	1120		ug/Kg		67	24 - 114

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*92*		*10 - 136*
2-Fluorophenol (Surr)	*84*		*18 - 115*
Nitrobenzene-d5 (Surr)	*74*		*23 - 115*
p-Terphenyl-d14 (Surr)	*88*		*35 - 135*
Phenol-d5 (Surr)	*89*		*21 - 112*

Lab Sample ID: LCSD 410-40970/6-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene	1670	1530		ug/Kg		91	75 - 137	2	30
2,6-Dichlorophenol	1670	1290		ug/Kg		77	53 - 122	6	30
3-Methylcholanthrene	1680	1480		ug/Kg		89	86 - 151	4	30
Hexachloropropene	1670	1520		ug/Kg		91	37 - 105	6	30
Isosafrole	1680	1390		ug/Kg		83	64 - 127	2	30
Methapyrilene	13300	10600	E	ug/Kg		80	70 - 130	1	30
5-Nitro-o-toluidine	1670	1250		ug/Kg		75	10 - 95	8	30
N-Nitrosodiethylamine	1670	1260		ug/Kg		75	36 - 118	8	30
N-Nitrosodi-n-butylamine	1680	1120		ug/Kg		67	37 - 108	4	30
N-Nitrosopiperidine	1670	1310		ug/Kg		78	51 - 111	5	30
N-Nitrosopyrrolidine	1680	1370		ug/Kg		82	51 - 121	6	30
Pentachlorobenzene	1670	1400		ug/Kg		84	52 - 130	2	30
Pentachloronitrobenzene	1670	1320		ug/Kg		79	56 - 134	1	30
Phenacetin	1680	1560		ug/Kg		93	74 - 130	1	30
Pronamide	1670	1590		ug/Kg		95	75 - 136	2	30
Safrole, Total	1670	1310		ug/Kg		79	48 - 124	3	30
4,4'-Methylene bis(2-chloroaniline)	1670	947		ug/Kg		57	24 - 114	17	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-40970/6-A
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40970

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*80*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*91*		*10 - 136*
2-Fluorophenol (Surr)	*77*		*18 - 115*
Nitrobenzene-d5 (Surr)	*71*		*23 - 115*
p-Terphenyl-d14 (Surr)	*87*		*35 - 135*
Phenol-d5 (Surr)	*83*		*21 - 112*

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	ND		1880	1440		ug/Kg	☼	76	53 - 111
1,2,4-Trichlorobenzene	ND		1880	1430		ug/Kg	☼	76	46 - 109
1,2-Dichlorobenzene	ND		1880	1270		ug/Kg	☼	67	38 - 106
1,3-Dichlorobenzene	ND		1880	1260		ug/Kg	☼	67	36 - 103
1,4-Dichlorobenzene	ND		1880	1260		ug/Kg	☼	67	25 - 127
2,2'-oxybis[1-chloropropane]	ND		1890	1240		ug/Kg	☼	66	44 - 105
2,4,5-Trichlorophenol	ND		1890	1550		ug/Kg	☼	82	62 - 121
2,4,6-Trichlorophenol	ND		1880	1540		ug/Kg	☼	82	60 - 120
2,4-Dichlorophenol	ND		1880	1500		ug/Kg	☼	80	57 - 115
2,4-Dimethylphenol	ND		1880	1110		ug/Kg	☼	59	47 - 95
2,4-Dinitrophenol	ND		3770	2360		ug/Kg	☼	63	34 - 136
2,4-Dinitrotoluene	ND		1890	1440		ug/Kg	☼	76	61 - 121
2,6-Dinitrotoluene	ND		1890	1570		ug/Kg	☼	83	66 - 122
2-Chloronaphthalene	ND		1880	1560		ug/Kg	☼	83	48 - 123
2-Chlorophenol	ND		1890	1480		ug/Kg	☼	78	51 - 109
2-Methylphenol	ND		1880	1450		ug/Kg	☼	77	52 - 116
4-Bromophenyl-phenylether	ND		1890	1550		ug/Kg	☼	82	64 - 120
4-Chloro-3-methylphenol	ND		1880	1530		ug/Kg	☼	82	62 - 117
4-Chloroaniline	ND		1880	763		ug/Kg	☼	41	24 - 105
4-Methylphenol	ND		1880	1360		ug/Kg	☼	73	52 - 121
4-Nitroaniline	ND		1880	1110		ug/Kg	☼	59	45 - 99
4-Nitrophenol	ND		1880	1380		ug/Kg	☼	73	54 - 125
Acetophenone	ND		1880	1370		ug/Kg	☼	73	48 - 109
Aniline	ND	F1	1880	506	J F1	ug/Kg	☼	27	37 - 93
Anthracene	11	J	1880	1580		ug/Kg	☼	83	67 - 120
Benzo[a]anthracene	43		1880	1580		ug/Kg	☼	82	68 - 120
Benzo[a]pyrene	51		1880	1530		ug/Kg	☼	78	68 - 119
Butylbenzylphthalate	ND		1880	1650		ug/Kg	☼	88	69 - 125
Chrysene	53		1880	1520		ug/Kg	☼	78	66 - 111
Di-n-butyl phthalate	ND		1880	1620		ug/Kg	☼	86	70 - 126
Di-n-octyl phthalate	ND		1890	1690		ug/Kg	☼	89	65 - 139
Dibenz(a,h)anthracene	ND		1880	1680		ug/Kg	☼	89	69 - 135
Diethyl phthalate	ND		1880	1460		ug/Kg	☼	78	68 - 116
Dimethyl phthalate	ND		1880	1460		ug/Kg	☼	78	66 - 113
Fluoranthene	80		1880	1640		ug/Kg	☼	83	65 - 114
Hexachlorobenzene	ND		1880	1460		ug/Kg	☼	78	62 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	ND		1890	1400		ug/Kg	☼	74	39 - 120
Hexachlorocyclopentadiene	ND	F2 F1	3780	1200		ug/Kg	☼	32	13 - 115
Hexachloroethane	ND		1890	1270		ug/Kg	☼	67	30 - 112
Indeno[1,2,3-cd]pyrene	41		1890	1580		ug/Kg	☼	82	64 - 130
N-Nitrosodi-n-propylamine	ND		1880	1350		ug/Kg	☼	72	49 - 108
Naphthalene	13	J	1890	1460		ug/Kg	☼	76	49 - 104
Nitrobenzene	ND		1880	1370		ug/Kg	☼	73	41 - 118
Pentachlorophenol	ND		1890	1330		ug/Kg	☼	70	40 - 131
Phenanthrene	43		1880	1630		ug/Kg	☼	84	67 - 116
Phenol	ND		1880	1490		ug/Kg	☼	79	41 - 107
Pyrene	78		1890	1570		ug/Kg	☼	79	67 - 109
Pyridine	ND		1880	789		ug/Kg	☼	42	10 - 117
Bis(2-chloroethoxy)methane	ND		1890	1370		ug/Kg	☼	72	52 - 110
Bis(2-chloroethyl)ether	ND		1890	1380		ug/Kg	☼	73	44 - 104
Bis(2-ethylhexyl) phthalate	ND		1890	1660		ug/Kg	☼	88	65 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 136*
2-Fluorobiphenyl (Surr)	*77*		*34 - 117*
2-Fluorophenol (Surr)	*74*		*18 - 115*
Nitrobenzene-d5 (Surr)	*70*		*23 - 115*
p-Terphenyl-d14 (Surr)	*79*		*35 - 135*
Phenol-d5 (Surr)	*78*		*21 - 112*

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1870	1460		ug/Kg	☼	78	53 - 111	1	30
1,2,4-Trichlorobenzene	ND		1860	1490		ug/Kg	☼	80	46 - 109	4	30
1,2-Dichlorobenzene	ND		1870	1260		ug/Kg	☼	67	38 - 106	1	30
1,3-Dichlorobenzene	ND		1870	1260		ug/Kg	☼	68	36 - 103	0	30
1,4-Dichlorobenzene	ND		1870	1260		ug/Kg	☼	67	25 - 127	0	30
2,2'-oxybis[1-chloropropane]	ND		1870	1230		ug/Kg	☼	66	44 - 105	1	30
2,4,5-Trichlorophenol	ND		1870	1540		ug/Kg	☼	82	62 - 121	0	30
2,4,6-Trichlorophenol	ND		1870	1520		ug/Kg	☼	81	60 - 120	1	30
2,4-Dichlorophenol	ND		1870	1540		ug/Kg	☼	82	57 - 115	3	30
2,4-Dimethylphenol	ND		1870	1170		ug/Kg	☼	63	47 - 95	5	30
2,4-Dinitrophenol	ND		3740	2100		ug/Kg	☼	56	34 - 136	12	30
2,4-Dinitrotoluene	ND		1880	1460		ug/Kg	☼	78	61 - 121	2	30
2,6-Dinitrotoluene	ND		1880	1510		ug/Kg	☼	80	66 - 122	4	30
2-Chloronaphthalene	ND		1870	1480		ug/Kg	☼	79	48 - 123	5	30
2-Chlorophenol	ND		1870	1470		ug/Kg	☼	78	51 - 109	1	30
2-Methylphenol	ND		1870	1490		ug/Kg	☼	80	52 - 116	3	30
4-Bromophenyl-phenylether	ND		1870	1600		ug/Kg	☼	85	64 - 120	3	30
4-Chloro-3-methylphenol	ND		1870	1580		ug/Kg	☼	84	62 - 117	3	30
4-Chloroaniline	ND		1870	834		ug/Kg	☼	45	24 - 105	9	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 41407

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 40970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methylphenol	ND		1870	1400		ug/Kg	☼	75	52 - 121	3	30
4-Nitroaniline	ND		1870	1030		ug/Kg	☼	55	45 - 99	8	30
4-Nitrophenol	ND		1870	1370		ug/Kg	☼	73	54 - 125	1	30
Acetophenone	ND		1870	1410		ug/Kg	☼	75	48 - 109	3	30
Aniline	ND	F1	1870	519	J F1	ug/Kg	☼	28	37 - 93	3	30
Anthracene	11	J	1870	1620		ug/Kg	☼	86	67 - 120	2	30
Benzo[a]anthracene	43		1870	1570		ug/Kg	☼	82	68 - 120	1	30
Benzo[a]pyrene	51		1870	1570		ug/Kg	☼	81	68 - 119	3	30
Butylbenzylphthalate	ND		1870	1630		ug/Kg	☼	87	69 - 125	1	30
Chrysene	53		1870	1500		ug/Kg	☼	78	66 - 111	1	30
Di-n-butyl phthalate	ND		1870	1650		ug/Kg	☼	88	70 - 126	2	30
Di-n-octyl phthalate	ND		1870	1770		ug/Kg	☼	94	65 - 139	5	30
Dibenz(a,h)anthracene	ND		1870	1690		ug/Kg	☼	90	69 - 135	1	30
Diethyl phthalate	ND		1870	1480		ug/Kg	☼	79	68 - 116	1	30
Dimethyl phthalate	ND		1870	1440		ug/Kg	☼	77	66 - 113	2	30
Fluoranthene	80		1870	1630		ug/Kg	☼	83	65 - 114	1	30
Hexachlorobenzene	ND		1870	1520		ug/Kg	☼	82	62 - 124	4	30
Hexachlorobutadiene	ND		1880	1400		ug/Kg	☼	75	39 - 120	0	30
Hexachlorocyclopentadiene	ND	F2 F1	3750	428	J F1 F2	ug/Kg	☼	11	13 - 115	95	30
Hexachloroethane	ND		1880	1280		ug/Kg	☼	68	30 - 112	0	30
Indeno[1,2,3-cd]pyrene	41		1870	1570		ug/Kg	☼	82	64 - 130	1	30
N-Nitrosodi-n-propylamine	ND		1860	1320		ug/Kg	☼	71	49 - 108	3	30
Naphthalene	13	J	1880	1490		ug/Kg	☼	78	49 - 104	2	30
Nitrobenzene	ND		1870	1390		ug/Kg	☼	74	41 - 118	1	30
Pentachlorophenol	ND		1880	1240		ug/Kg	☼	66	40 - 131	7	30
Phenanthrene	43		1870	1640		ug/Kg	☼	86	67 - 116	1	30
Phenol	ND		1870	1470		ug/Kg	☼	78	41 - 107	2	30
Pyrene	78		1880	1560		ug/Kg	☼	79	67 - 109	0	30
Pyridine	ND		1870	788		ug/Kg	☼	42	10 - 117	0	30
Bis(2-chloroethoxy)methane	ND		1880	1380		ug/Kg	☼	74	52 - 110	1	30
Bis(2-chloroethyl)ether	ND		1880	1420		ug/Kg	☼	76	44 - 104	3	30
Bis(2-ethylhexyl) phthalate	ND		1880	1680		ug/Kg	☼	90	65 - 132	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 136*
2-Fluorobiphenyl (Surr)	*78*		*34 - 117*
2-Fluorophenol (Surr)	*75*		*18 - 115*
Nitrobenzene-d5 (Surr)	*72*		*23 - 115*
p-Terphenyl-d14 (Surr)	*79*		*35 - 135*
Phenol-d5 (Surr)	*79*		*21 - 112*

Lab Sample ID: MB 410-40982/1-A
Matrix: Water
Analysis Batch: 41433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	ND		21	10	ug/L		09/04/20 08:45	09/07/20 00:17	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/04/20 08:45	09/07/20 00:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40982/1-A
Matrix: Water
Analysis Batch: 41433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,4-Dichlorophenol	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
4-Bromophenyl-phenylether	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,6-Dichlorophenol	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/04/20 08:45	09/07/20 00:17	1
4-Chloroaniline	ND		10	4.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,4-Dinitrotoluene	ND		5.0	1.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Acetophenone	ND		10	4.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,6-Dinitrotoluene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Aniline	ND		10	3.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Anthracene	ND		0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Butylbenzylphthalate	ND		5.0	2.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Chrysene	ND		0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Di-n-butyl phthalate	ND		5.0	2.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Di-n-octyl phthalate	ND		11	5.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Diethyl phthalate	ND		5.0	2.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Dimethyl phthalate	ND		5.0	2.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Fluoranthene	0.127	J	0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Hexachlorobenzene	ND		0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Hexachlorocyclopentadiene	ND		11	5.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Hexachloroethane	ND		5.0	1.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
2-Methylphenol	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Hexachloropropene	ND		5.0	2.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
4-Methylphenol	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Isosafrole	ND		10	4.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
4-Nitroaniline	ND		3.0	0.90	ug/L		09/04/20 08:45	09/07/20 00:17	1
Methapyrilene	ND		50	15	ug/L		09/04/20 08:45	09/07/20 00:17	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
4-Nitrophenol	ND		30	10	ug/L		09/04/20 08:45	09/07/20 00:17	1
N-Nitrosodiethylamine	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Naphthalene	0.118	J	0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/04/20 08:45	09/07/20 00:17	1
Nitrobenzene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
N-Nitrosodi-n-propylamine	ND		3.0	0.70	ug/L		09/04/20 08:45	09/07/20 00:17	1
N-Nitrosopiperidine	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
N-Nitrosopyrrolidine	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Pentachlorobenzene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Pentachloronitrobenzene	ND		5.0	2.0	ug/L		09/04/20 08:45	09/07/20 00:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40982/1-A
Matrix: Water
Analysis Batch: 41433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.0	1.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Phenacetin	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Phenanthrene	0.170	J	0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Phenol	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Pronamide	ND		5.0	1.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Bis(2-chloroethoxy)methane	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Bis(2-chloroethyl)ether	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
Pyrene	ND		0.50	0.10	ug/L		09/04/20 08:45	09/07/20 00:17	1
Bis(2-ethylhexyl) phthalate	ND		11	5.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Pyridine	ND		5.0	2.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
Safrole, Total	ND		5.0	2.0	ug/L		09/04/20 08:45	09/07/20 00:17	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	71	ug/L		09/04/20 08:45	09/07/20 00:17	1
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,4,6-Trichlorophenol	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.50	ug/L		09/04/20 08:45	09/07/20 00:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*44 - 102*	*09/04/20 08:45*	*09/07/20 00:17*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*18 - 141*	*09/04/20 08:45*	*09/07/20 00:17*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 84*	*09/04/20 08:45*	*09/07/20 00:17*	*1*
Nitrobenzene-d5 (Surr)	*81*		*38 - 113*	*09/04/20 08:45*	*09/07/20 00:17*	*1*
p-Terphenyl-d14 (Surr)	*67*		*34 - 128*	*09/04/20 08:45*	*09/07/20 00:17*	*1*
Phenol-d5 (Surr)	*36*		*10 - 67*	*09/04/20 08:45*	*09/07/20 00:17*	*1*

Lab Sample ID: LCS 410-40982/2-A
Matrix: Water
Analysis Batch: 41433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	50.0	21.5	*	ug/L		43	51 - 107
2-Chlorophenol	50.2	20.3	*	ug/L		40	57 - 105
1,2-Dichlorobenzene	50.0	17.9		ug/L		36	35 - 104
1,3-Dichlorobenzene	50.0	17.4		ug/L		35	28 - 103
1,4-Dichlorobenzene	50.0	17.6		ug/L		35	34 - 97
2,4-Dichlorophenol	50.1	24.7	*	ug/L		49	65 - 110
4-Bromophenyl-phenylether	50.3	23.9	*	ug/L		47	60 - 114
4-Chloro-3-methylphenol	50.0	22.5	*	ug/L		45	60 - 118
4-Chloroaniline	50.0	19.6	*	ug/L		39	45 - 111
2,4-Dimethylphenol	50.1	20.1	*	ug/L		40	53 - 93
2,4-Dinitrophenol	100	46.6		ug/L		46	44 - 134
2,4-Dinitrotoluene	50.3	23.4	*	ug/L		47	66 - 122
Acetophenone	50.1	21.7	*	ug/L		43	61 - 114
2,6-Dinitrotoluene	50.3	23.9	*	ug/L		48	71 - 120
Aniline	50.0	12.8	*	ug/L		26	45 - 87
Anthracene	50.1	23.9	*	ug/L		48	67 - 116
Benzo[a]anthracene	50.0	25.5	*	ug/L		51	68 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40982/2-A
Matrix: Water
Analysis Batch: 41433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	50.2	24.0	*	ug/L		48	71 - 117
Butylbenzylphthalate	50.0	17.3	*	ug/L		35	40 - 133
Chrysene	50.0	24.3	*	ug/L		48	65 - 121
Di-n-butyl phthalate	50.2	20.9	*	ug/L		42	58 - 125
Di-n-octyl phthalate	50.2	21.4	*	ug/L		43	60 - 136
Dibenz(a,h)anthracene	50.2	26.0	*	ug/L		52	63 - 128
Diethyl phthalate	50.1	19.7	*	ug/L		39	41 - 126
Dimethyl phthalate	50.0	13.7		ug/L		27	10 - 134
Fluoranthene	50.1	25.7	*	ug/L		51	63 - 122
Hexachlorobenzene	50.1	25.0	*	ug/L		50	60 - 117
Hexachlorobutadiene	50.4	21.7		ug/L		43	20 - 108
Hexachlorocyclopentadiene	101	8.01	J *	ug/L		8	10 - 91
Hexachloroethane	50.3	16.0		ug/L		32	23 - 95
2-Methylphenol	50.2	20.3	*	ug/L		40	53 - 107
4-Methylphenol	50.1	20.8	*	ug/L		42	49 - 108
Indeno[1,2,3-cd]pyrene	50.2	24.3	*	ug/L		48	59 - 123
4-Nitroaniline	50.1	20.0	*	ug/L		40	55 - 113
4-Nitrophenol	50.1	13.6	J	ug/L		27	23 - 89
Naphthalene	50.4	20.6	*	ug/L		41	51 - 102
Nitrobenzene	50.2	22.3	*	ug/L		44	59 - 109
N-Nitrosodi-n-propylamine	50.0	22.2	*	ug/L		44	58 - 120
Pentachlorophenol	50.4	25.6	*	ug/L		51	54 - 131
Phenanthrene	50.2	24.1	*	ug/L		48	65 - 113
Phenol	50.2	12.4		ug/L		25	19 - 79
Bis(2-chloroethoxy)methane	50.4	22.4	*	ug/L		44	63 - 116
Bis(2-chloroethyl)ether	50.3	19.9	*	ug/L		39	58 - 108
Pyrene	50.4	23.6	*	ug/L		47	65 - 115
Bis(2-ethylhexyl) phthalate	50.3	22.1	*	ug/L		44	61 - 129
Pyridine	50.0	11.2	*	ug/L		22	23 - 64
1,2,4,5-Tetrachlorobenzene	50.0	23.1		ug/L		46	40 - 102
1,2,4-Trichlorobenzene	50.0	21.4		ug/L		43	34 - 106
2,4,5-Trichlorophenol	50.2	25.9	*	ug/L		52	66 - 118
2,4,6-Trichlorophenol	50.1	25.7	*	ug/L		51	69 - 117
2,2'-oxybis[1-chloropropane]	50.2	19.5	*	ug/L		39	48 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*44*		*44 - 102*
2,4,6-Tribromophenol (Surr)	*49*		*18 - 141*
2-Fluorophenol (Surr)	*28*		*10 - 84*
Nitrobenzene-d5 (Surr)	*44*		*38 - 113*
p-Terphenyl-d14 (Surr)	*45*		*34 - 128*
Phenol-d5 (Surr)	*22*		*10 - 67*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40982/3-A
Matrix: Water
Analysis Batch: 41433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Acetylaminofluorene	50.0	49.1		ug/L		98	59 - 135
2,6-Dichlorophenol	50.2	49.0		ug/L		98	50 - 113
3-Methylcholanthrene	50.3	49.9		ug/L		99	69 - 162
Hexachloropropene	50.0	20.3		ug/L		41	10 - 92
Isosafrole	50.3	44.0		ug/L		87	62 - 129
Methapyrilene	400	22.6	J *	ug/L		6	45 - 155
5-Nitro-o-toluidine	50.1	44.4		ug/L		89	57 - 109
N-Nitrosodiethylamine	50.2	43.1		ug/L		86	63 - 106
N-Nitrosodi-n-butylamine	50.4	41.2		ug/L		82	49 - 104
N-Nitrosopiperidine	50.1	44.8		ug/L		89	68 - 110
N-Nitrosopyrrolidine	50.3	43.0		ug/L		86	65 - 115
Pentachlorobenzene	50.2	33.4		ug/L		67	36 - 109
Pentachloronitrobenzene	50.0	43.1		ug/L		86	60 - 112
Phenacetin	50.3	45.6		ug/L		91	67 - 128
Pronamide	50.1	48.5		ug/L		97	73 - 117
Safrole, Total	50.2	42.9		ug/L		85	62 - 104
4,4'-Methylene bis(2-chloroaniline)	50.1	ND		ug/L		73	36 - 109

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*44 - 102*
2,4,6-Tribromophenol (Surr)	*100*		*18 - 141*
2-Fluorophenol (Surr)	*55*		*10 - 84*
Nitrobenzene-d5 (Surr)	*87*		*38 - 113*
p-Terphenyl-d14 (Surr)	*83*		*34 - 128*
Phenol-d5 (Surr)	*43*		*10 - 67*

Lab Sample ID: LCSD 410-40982/4-A
Matrix: Water
Analysis Batch: 41433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40982

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene	50.0	45.2		ug/L		90	59 - 135	NaN	30
2,6-Dichlorophenol	50.2	42.5		ug/L		85	50 - 113	NaN	30
3-Methylcholanthrene	50.3	47.5		ug/L		94	69 - 162	NaN	30
Hexachloropropene	50.0	17.9		ug/L		36	10 - 92	NaN	30
Isosafrole	50.3	42.6		ug/L		85	62 - 129	NaN	30
Methapyrilene	400	ND	*	ug/L		3	45 - 155	NaN	30
5-Nitro-o-toluidine	50.1	44.4		ug/L		89	57 - 109	NaN	30
N-Nitrosodiethylamine	50.2	42.2		ug/L		84	63 - 106	NaN	30
N-Nitrosodi-n-butylamine	50.4	38.9		ug/L		77	49 - 104	NaN	30
N-Nitrosopiperidine	50.1	43.2		ug/L		86	68 - 110	NaN	30
N-Nitrosopyrrolidine	50.3	40.5		ug/L		81	65 - 115	NaN	30
Pentachlorobenzene	50.2	29.4		ug/L		59	36 - 109	NaN	30
Pentachloronitrobenzene	50.0	41.0		ug/L		82	60 - 112	NaN	30
Phenacetin	50.3	43.3		ug/L		86	67 - 128	NaN	30
Pronamide	50.1	46.4		ug/L		93	73 - 117	NaN	30
Safrole, Total	50.2	40.3		ug/L		80	62 - 104	NaN	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-40982/4-A
Matrix: Water
Analysis Batch: 41433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40982

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-Methylene bis(2-chloroaniline)			50.1	ND		ug/L		76	36 - 109	NaN	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*88*		*44 - 102*
2,4,6-Tribromophenol (Surr)	*101*		*18 - 141*
2-Fluorophenol (Surr)	*53*		*10 - 84*
Nitrobenzene-d5 (Surr)	*84*		*38 - 113*
p-Terphenyl-d14 (Surr)	*76*		*34 - 128*
Phenol-d5 (Surr)	*40*		*10 - 67*

Lab Sample ID: MB 410-43084/1-A
Matrix: Solid
Analysis Batch: 43302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	ND		330	100	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2-Chloronaphthalene	ND		33	6.7	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2-Chlorophenol	ND		37	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
1,2-Dichlorobenzene	ND		50	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
1,3-Dichlorobenzene	ND		37	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
1,4-Dichlorobenzene	ND		37	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,4-Dichlorophenol	ND		43	20	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
4-Bromophenyl-phenylether	ND		50	23	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,6-Dichlorophenol	ND		50	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
4-Chloro-3-methylphenol	ND		50	23	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
4-Chloroaniline	ND		170	33	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,4-Dimethylphenol	ND		67	30	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,4-Dinitrophenol	ND		1000	330	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,4-Dinitrotoluene	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Acetophenone	ND		50	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,6-Dinitrotoluene	ND		50	23	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Aniline	ND		500	170	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Anthracene	ND		17	3.3	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Benzo[a]anthracene	ND		17	6.7	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Butylbenzylphthalate	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Chrysene	ND		17	3.3	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Di-n-butyl phthalate	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Di-n-octyl phthalate	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Dibenz(a,h)anthracene	ND		17	6.7	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Diethyl phthalate	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Dimethyl phthalate	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Fluoranthene	ND		17	3.3	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Hexachlorobenzene	ND		17	6.7	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Hexachlorobutadiene	ND		77	37	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Hexachlorocyclopentadiene	ND		500	200	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
3-Methylcholanthrene	ND		57	27	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Hexachloroethane	ND		170	33	ug/Kg		09/11/20 18:30	09/13/20 20:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-43084/1-A
Matrix: Solid
Analysis Batch: 43302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		67	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Hexachloropropene	ND		330	100	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
4-Methylphenol	ND		50	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Indeno[1,2,3-cd]pyrene	ND		17	3.3	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Isosafrole	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
4-Nitroaniline	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Methapyrilene	ND		5000	1700	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
5-Nitro-o-toluidine	ND		500	170	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
4-Nitrophenol	ND		500	170	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
N-Nitrosodiethylamine	ND		43	20	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Naphthalene	ND		17	6.7	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
N-Nitrosodi-n-butylamine	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Nitrobenzene	ND		67	27	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
N-Nitrosodi-n-propylamine	ND		50	23	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
N-Nitrosopiperidine	ND		37	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
N-Nitrosopyrrolidine	ND		50	23	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Pentachlorobenzene	ND		43	20	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Pentachloronitrobenzene	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Pentachlorophenol	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Phenacetin	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Phenanthrene	ND		17	3.3	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Phenol	ND		37	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Pronamide	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Bis(2-chloroethoxy)methane	ND		37	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Bis(2-chloroethyl)ether	ND		50	23	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Pyrene	ND		17	3.3	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Bis(2-ethylhexyl) phthalate	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Pyridine	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
Safrole, Total	ND		170	67	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
1,2,4,5-Tetrachlorobenzene	ND		37	17	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
1,2,4-Trichlorobenzene	ND		50	23	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,4,5-Trichlorophenol	ND		67	30	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,4,6-Trichlorophenol	ND		57	27	ug/Kg		09/11/20 18:30	09/13/20 20:30	1
2,2'-oxybis[1-chloropropane]	ND		43	20	ug/Kg		09/11/20 18:30	09/13/20 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*34 - 117*	*09/11/20 18:30*	*09/13/20 20:30*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*10 - 136*	*09/11/20 18:30*	*09/13/20 20:30*	*1*
2-Fluorophenol (Surr)	*78*		*18 - 115*	*09/11/20 18:30*	*09/13/20 20:30*	*1*
Nitrobenzene-d5 (Surr)	*71*		*23 - 115*	*09/11/20 18:30*	*09/13/20 20:30*	*1*
p-Terphenyl-d14 (Surr)	*89*		*35 - 135*	*09/11/20 18:30*	*09/13/20 20:30*	*1*
Phenol-d5 (Surr)	*78*		*21 - 112*	*09/11/20 18:30*	*09/13/20 20:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-43084/2-A
Matrix: Solid
Analysis Batch: 43302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	1670	1360		ug/Kg		81	48 - 123
2-Chlorophenol	1670	1350		ug/Kg		81	51 - 109
1,2-Dichlorobenzene	1670	1290		ug/Kg		77	38 - 106
1,3-Dichlorobenzene	1670	1270		ug/Kg		76	36 - 103
1,4-Dichlorobenzene	1670	1240		ug/Kg		74	25 - 127
2,4-Dichlorophenol	1670	1560		ug/Kg		94	57 - 115
4-Bromophenyl-phenylether	1680	1520		ug/Kg		91	64 - 120
4-Chloro-3-methylphenol	1670	1380		ug/Kg		83	62 - 117
4-Chloroaniline	1670	1100		ug/Kg		66	24 - 105
2,4-Dimethylphenol	1670	1130		ug/Kg		68	47 - 95
2,4-Dinitrophenol	3340	2620		ug/Kg		78	34 - 136
2,4-Dinitrotoluene	1680	1550		ug/Kg		93	61 - 121
Acetophenone	1670	1300		ug/Kg		78	48 - 109
2,6-Dinitrotoluene	1680	1480		ug/Kg		88	66 - 122
Aniline	1670	1020		ug/Kg		61	37 - 93
Anthracene	1670	1660		ug/Kg		100	67 - 120
Benzo[a]anthracene	1670	1650		ug/Kg		99	68 - 120
Benzo[a]pyrene	1670	1660		ug/Kg		99	68 - 119
Butylbenzylphthalate	1670	1460		ug/Kg		87	69 - 125
Chrysene	1670	1580		ug/Kg		95	66 - 111
Di-n-butyl phthalate	1670	1490		ug/Kg		89	70 - 126
Di-n-octyl phthalate	1670	1540		ug/Kg		92	65 - 139
Dibenz(a,h)anthracene	1670	1800		ug/Kg		108	69 - 135
Diethyl phthalate	1670	1410		ug/Kg		84	68 - 116
Dimethyl phthalate	1670	1520		ug/Kg		91	66 - 113
Fluoranthene	1670	1540		ug/Kg		92	65 - 114
Hexachlorobenzene	1670	1690		ug/Kg		101	62 - 124
Hexachlorobutadiene	1680	1420		ug/Kg		85	39 - 120
Hexachlorocyclopentadiene	3350	2420		ug/Kg		72	13 - 115
Hexachloroethane	1680	1120		ug/Kg		67	30 - 112
2-Methylphenol	1670	1280		ug/Kg		76	52 - 116
4-Methylphenol	1670	1320		ug/Kg		79	52 - 121
Indeno[1,2,3-cd]pyrene	1670	1770		ug/Kg		105	64 - 130
4-Nitroaniline	1670	1280		ug/Kg		77	45 - 99
4-Nitrophenol	1670	1380		ug/Kg		83	54 - 125
Naphthalene	1680	1380		ug/Kg		82	49 - 104
Nitrobenzene	1670	1210		ug/Kg		73	41 - 118
N-Nitrosodi-n-propylamine	1670	1160		ug/Kg		70	49 - 108
Pentachlorophenol	1680	1700		ug/Kg		101	40 - 131
Phenanthrene	1670	1660		ug/Kg		99	67 - 116
Phenol	1670	1320		ug/Kg		79	57 - 107
Bis(2-chloroethoxy)methane	1680	1260		ug/Kg		75	52 - 110
Bis(2-chloroethyl)ether	1680	1130		ug/Kg		67	44 - 104
Pyrene	1680	1490		ug/Kg		89	67 - 109
Bis(2-ethylhexyl) phthalate	1680	1450		ug/Kg		86	65 - 132
Pyridine	1670	802		ug/Kg		48	10 - 117
1,2,4,5-Tetrachlorobenzene	1670	1410		ug/Kg		85	53 - 111
1,2,4-Trichlorobenzene	1670	1450		ug/Kg		87	46 - 109

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-43084/2-A
Matrix: Solid
Analysis Batch: 43302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1670	1500		ug/Kg		89	62 - 121
2,4,6-Trichlorophenol	1670	1540		ug/Kg		92	60 - 120
2,2'-oxybis[1-chloropropane]	1670	1060		ug/Kg		63	44 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*76*		*10 - 136*
2-Fluorophenol (Surr)	*73*		*18 - 115*
Nitrobenzene-d5 (Surr)	*69*		*23 - 115*
p-Terphenyl-d14 (Surr)	*80*		*35 - 135*
Phenol-d5 (Surr)	*73*		*21 - 112*

Lab Sample ID: LCSD 410-43084/4-A
Matrix: Solid
Analysis Batch: 43302

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43084

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene	1670	1440		ug/Kg		87	75 - 137	0	30
2,6-Dichlorophenol	1670	1490		ug/Kg		89	53 - 122	10	30
3-Methylcholanthrene	1680	1780		ug/Kg		106	86 - 151	6	30
Hexachloropropene	1670	1490		ug/Kg		89	37 - 105	2	30
Isosafrole	1680	1470		ug/Kg		88	64 - 127	0	30
Methapyrilene	13300	11700	E	ug/Kg		87	70 - 130	1	30
5-Nitro-o-toluidine	1670	1370		ug/Kg		82	10 - 95	7	30
N-Nitrosodiethylamine	1670	1210		ug/Kg		72	36 - 118	0	30
N-Nitrosodi-n-butylamine	1680	1070		ug/Kg		64	37 - 108	7	30
N-Nitrosopiperidine	1670	1210		ug/Kg		72	51 - 111	3	30
N-Nitrosopyrrolidine	1680	1230		ug/Kg		74	51 - 121	3	30
Pentachlorobenzene	1670	1370		ug/Kg		82	52 - 130	2	30
Pentachloronitrobenzene	1670	1510		ug/Kg		91	56 - 134	5	30
Phenacetin	1680	1520		ug/Kg		91	74 - 130	2	30
Pronamide	1670	1620		ug/Kg		97	75 - 136	4	30
Safrole, Total	1670	1440		ug/Kg		86	48 - 124	7	30
4,4'-Methylene bis(2-chloroaniline)	1670	1120		ug/Kg		67	24 - 114	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 136*
2-Fluorophenol (Surr)	*75*		*18 - 115*
Nitrobenzene-d5 (Surr)	*68*		*23 - 115*
p-Terphenyl-d14 (Surr)	*83*		*35 - 135*
Phenol-d5 (Surr)	*77*		*21 - 112*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 410-41594/1-A
Matrix: Water
Analysis Batch: 41600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/08/20 09:15	09/08/20 11:13	1
Isobutanol (1C)	ND		1000	150	ug/L		09/08/20 09:15	09/08/20 11:13	1
Methanol (2C)	ND		1000	220	ug/L		09/08/20 09:15	09/08/20 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*139*		*58 - 149*	*09/08/20 09:15*	*09/08/20 11:13*	*1*
Acetone (2C)	*104*		*58 - 149*	*09/08/20 09:15*	*09/08/20 11:13*	*1*

Lab Sample ID: LCS 410-41594/2-A
Matrix: Water
Analysis Batch: 41600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Butanol (1C)	2650	2380		ug/L		90	82 - 115
Isobutanol (1C)	2790	2680		ug/L		96	66 - 120
Methanol (2C)	2510	2240		ug/L		89	79 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Acetone (1C)	*104*		*58 - 149*
Acetone (2C)	*84*		*58 - 149*

Lab Sample ID: MB 410-40089/1-A
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	200	ug/Kg			09/09/20 00:23	1
Isobutanol (1C)	ND		1000	170	ug/Kg			09/09/20 00:23	1
Methanol (2C)	ND		1000	200	ug/Kg			09/09/20 00:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*145*		*10 - 179*		*09/09/20 00:23*	*1*
Acetone (2C)	*113*		*10 - 179*		*09/09/20 00:23*	*1*

Lab Sample ID: LCS 410-40089/2-A
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Butanol (1C)	2640	2370		ug/Kg		90	70 - 130
Isobutanol (1C)	2780	2950		ug/Kg		106	77 - 118
Methanol (2C)	2500	2820		ug/Kg		113	76 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Acetone (1C)	*100*		*10 - 179*
Acetone (2C)	*97*		*10 - 179*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Butanol (1C)	ND	*	2990	2940		ug/Kg	☼	98	
Isobutanol (1C)	ND		3140	3100		ug/Kg	☼	99	77 - 118
Methanol (2C)	ND		2820	2890		ug/Kg	☼	102	76 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Acetone (1C)	*100*		*10 - 179*
Acetone (2C)	*93*		*10 - 179*

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Butanol (1C)	ND	*	3000	2810		ug/Kg	☼	94		4	
Isobutanol (1C)	ND		3160	2920		ug/Kg	☼	92	77 - 118	6	20
Methanol (2C)	ND		2840	2650		ug/Kg	☼	93	76 - 119	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Acetone (1C)	*89*		*10 - 179*
Acetone (2C)	*85*		*10 - 179*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 410-40303/1-A
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.83	0.17	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
alpha-Chlordane (1C)	ND		0.83	0.17	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
beta-BHC (1C)	ND		1.0	0.44	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
delta-BHC (1C)	ND		1.0	0.45	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Endosulfan I (1C)	ND		0.83	0.22	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Endosulfan II (1C)	ND		2.3	1.1	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Endosulfan sulfate (1C)	ND		1.7	0.33	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Endrin (1C)	ND		1.7	0.68	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
gamma-BHC (Lindane) (1C)	ND		0.83	0.21	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
gamma-Chlordane (1C)	ND		0.83	0.25	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Heptachlor (1C)	ND		0.83	0.31	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Heptachlor epoxide (1C)	ND		0.83	0.17	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Methoxychlor (1C)	ND		6.7	1.8	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Toxaphene (1C)	ND		33	14	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
p,p'-DDD (1C)	ND		1.7	0.33	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
p,p'-DDE (1C)	ND		1.7	0.33	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
p,p'-DDT (1C)	ND		1.7	0.79	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Chlordane (n.o.s.) (1C)	ND		17	4.0	ug/Kg		09/02/20 16:38	09/04/20 05:34	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 410-40303/1-A
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40303

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	111		46 - 152	09/02/20 16:38	09/04/20 05:34	1
DCB Decachlorobiphenyl (Surr) (2C)	112		46 - 152	09/02/20 16:38	09/04/20 05:34	1
Tetrachloro-m-xylene (Surr) (1C)	52		19 - 136	09/02/20 16:38	09/04/20 05:34	1
Tetrachloro-m-xylene (Surr) (2C)	45		19 - 136	09/02/20 16:38	09/04/20 05:34	1

Lab Sample ID: LCS 410-40303/2-A
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (1C)	3.38	2.88		ug/Kg		85	65 - 124
alpha-Chlordane (2C)	3.33	2.76		ug/Kg		83	73 - 131
beta-BHC (1C)	3.33	2.67		ug/Kg		80	68 - 129
delta-BHC (1C)	3.33	2.72		ug/Kg		82	45 - 151
Endosulfan I (2C)	3.33	2.78		ug/Kg		84	62 - 119
Endosulfan II (2C)	6.67	6.01		ug/Kg		90	65 - 126
Endosulfan sulfate (1C)	6.67	6.59		ug/Kg		99	71 - 132
Endrin (2C)	6.67	5.78		ug/Kg		87	86 - 135
gamma-BHC (Lindane) (1C)	3.33	2.79		ug/Kg		84	68 - 133
gamma-Chlordane (2C)	3.33	2.86		ug/Kg		86	76 - 134
Heptachlor (1C)	3.33	2.63		ug/Kg		79	66 - 118
Heptachlor epoxide (2C)	3.38	2.68		ug/Kg		79	74 - 128
Methoxychlor (1C)	33.3	33.7		ug/Kg		101	88 - 145
p,p'-DDD (2C)	6.71	6.02		ug/Kg		90	69 - 138
p,p'-DDE (2C)	6.67	5.80		ug/Kg		87	68 - 146
p,p'-DDT (1C)	6.71	6.03		ug/Kg		90	67 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	117		46 - 152
DCB Decachlorobiphenyl (Surr) (2C)	118		46 - 152
Tetrachloro-m-xylene (Surr) (1C)	62		19 - 136
Tetrachloro-m-xylene (Surr) (2C)	53		19 - 136

Lab Sample ID: MB 410-41209/1-A
Matrix: Water
Analysis Batch: 41344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.020	0.0030	ug/L		09/04/20 19:15	09/05/20 11:34	1
alpha-Chlordane (1C)	ND		0.020	0.0030	ug/L		09/04/20 19:15	09/05/20 11:34	1
beta-BHC (1C)	ND		0.020	0.0034	ug/L		09/04/20 19:15	09/05/20 11:34	1
delta-BHC (1C)	ND		0.020	0.0034	ug/L		09/04/20 19:15	09/05/20 11:34	1
Endosulfan I (1C)	ND		0.020	0.0043	ug/L		09/04/20 19:15	09/05/20 11:34	1
Endosulfan II (1C)	ND		0.040	0.015	ug/L		09/04/20 19:15	09/05/20 11:34	1
Endosulfan sulfate (1C)	ND		0.030	0.0058	ug/L		09/04/20 19:15	09/05/20 11:34	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 410-41209/1-A
Matrix: Water
Analysis Batch: 41344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin (1C)	ND		0.030	0.0081	ug/L		09/04/20 19:15	09/05/20 11:34	1
gamma-BHC (Lindane) (1C)	ND		0.020	0.0020	ug/L		09/04/20 19:15	09/05/20 11:34	1
gamma-Chlordane (1C)	ND		0.040	0.0070	ug/L		09/04/20 19:15	09/05/20 11:34	1
Heptachlor (1C)	ND		0.020	0.0020	ug/L		09/04/20 19:15	09/05/20 11:34	1
Heptachlor epoxide (1C)	ND		0.020	0.0023	ug/L		09/04/20 19:15	09/05/20 11:34	1
Methoxychlor (1C)	ND		0.11	0.030	ug/L		09/04/20 19:15	09/05/20 11:34	1
Toxaphene (2C)	ND		1.0	0.30	ug/L		09/04/20 19:15	09/05/20 11:34	1
p,p'-DDD (1C)	ND		0.030	0.0050	ug/L		09/04/20 19:15	09/05/20 11:34	1
p,p'-DDE (1C)	ND		0.030	0.0050	ug/L		09/04/20 19:15	09/05/20 11:34	1
p,p'-DDT (1C)	ND		0.030	0.0052	ug/L		09/04/20 19:15	09/05/20 11:34	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.16	ug/L		09/04/20 19:15	09/05/20 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*70*		*32 - 149*	*09/04/20 19:15*	*09/05/20 11:34*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*81*		*32 - 149*	*09/04/20 19:15*	*09/05/20 11:34*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*33*		*29 - 129*	*09/04/20 19:15*	*09/05/20 11:34*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*38*		*29 - 129*	*09/04/20 19:15*	*09/05/20 11:34*	*1*

Lab Sample ID: LCS 410-41209/2-A
Matrix: Water
Analysis Batch: 41344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (2C)	0.101	0.0993		ug/L		98	47 - 132
alpha-Chlordane (2C)	0.100	0.0796		ug/L		80	28 - 136
beta-BHC (2C)	0.100	0.0982		ug/L		98	27 - 143
delta-BHC (2C)	0.100	0.104		ug/L		104	28 - 141
Endosulfan I (2C)	0.100	0.0937		ug/L		94	40 - 138
Endosulfan II (2C)	0.200	0.198		ug/L		99	27 - 138
Endosulfan sulfate (2C)	0.200	0.203		ug/L		102	41 - 133
Endrin (2C)	0.200	0.173		ug/L		86	35 - 143
gamma-BHC (Lindane) (2C)	0.100	0.0953		ug/L		95	29 - 136
gamma-Chlordane (2C)	0.100	0.0723		ug/L		72	53 - 130
Heptachlor (2C)	0.100	0.0428		ug/L		43	38 - 135
Heptachlor epoxide (2C)	0.101	0.0943		ug/L		93	28 - 146
Methoxychlor (2C)	1.00	1.24		ug/L		124	39 - 143
p,p'-DDD (2C)	0.201	0.202		ug/L		100	42 - 148
p,p'-DDE (2C)	0.200	0.131		ug/L		65	22 - 138
p,p'-DDT (2C)	0.201	0.246		ug/L		122	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*59*		*32 - 149*
DCB Decachlorobiphenyl (Surr) (2C)	*69*		*32 - 149*
Tetrachloro-m-xylene (Surr) (1C)	*19*	*X*	*29 - 129*
Tetrachloro-m-xylene (Surr) (2C)	*22*	*X*	*29 - 129*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LCSD 410-41209/3-A
Matrix: Water
Analysis Batch: 41344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41209

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC (2C)			0.101	0.102		ug/L		101	47 - 132	3	30
alpha-Chlordane (2C)			0.100	0.0805		ug/L		81	28 - 136	1	30
beta-BHC (1C)			0.100	0.104		ug/L		104	27 - 143	5	30
delta-BHC (2C)			0.100	0.104		ug/L		104	28 - 141	1	30
Endosulfan I (2C)			0.100	0.102		ug/L		102	40 - 138	8	30
Endosulfan II (2C)			0.200	0.202		ug/L		101	27 - 138	2	30
Endosulfan sulfate (2C)			0.200	0.210		ug/L		105	41 - 133	3	30
Endrin (2C)			0.200	0.186		ug/L		93	35 - 143	7	30
gamma-BHC (Lindane) (2C)			0.100	0.101		ug/L		101	29 - 136	6	30
gamma-Chlordane (2C)			0.100	0.0740		ug/L		74	53 - 130	2	30
Heptachlor (2C)			0.100	0.0449		ug/L		45	38 - 135	5	30
Heptachlor epoxide (2C)			0.101	0.0969		ug/L		96	28 - 146	3	30
Methoxychlor (2C)			1.00	1.39		ug/L		139	39 - 143	12	30
p,p'-DDD (2C)			0.201	0.212		ug/L		105	42 - 148	5	30
p,p'-DDE (2C)			0.200	0.128		ug/L		64	22 - 138	2	30
p,p'-DDT (2C)			0.201	0.257		ug/L		128	40 - 145	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*71*		*32 - 149*
DCB Decachlorobiphenyl (Surr) (2C)	*82*		*32 - 149*
Tetrachloro-m-xylene (Surr) (1C)	*27*	*X*	*29 - 129*
Tetrachloro-m-xylene (Surr) (2C)	*31*		*29 - 129*

Lab Sample ID: MB 410-42378/1-A
Matrix: Solid
Analysis Batch: 43144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.83	0.17	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
alpha-Chlordane (1C)	ND		0.83	0.17	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
beta-BHC (1C)	ND		1.0	0.44	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
delta-BHC (1C)	ND		1.0	0.45	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
Endosulfan I (1C)	ND		0.83	0.22	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
Endosulfan II (1C)	ND		2.3	1.1	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
Endosulfan sulfate (1C)	ND		1.7	0.33	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
Endrin (1C)	ND		1.7	0.68	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
gamma-BHC (Lindane) (1C)	ND		0.83	0.21	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
gamma-Chlordane (1C)	ND		0.83	0.25	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
Heptachlor (1C)	ND		0.83	0.31	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
Heptachlor epoxide (1C)	ND		0.83	0.17	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
Methoxychlor (1C)	ND		6.7	1.8	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
Toxaphene (1C)	ND		33	14	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
p,p'-DDD (2C)	ND		1.7	0.33	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
p,p'-DDE (1C)	ND		1.7	0.33	ug/Kg		09/10/20 09:25	09/11/20 22:00	1
p,p'-DDT (1C)	ND		1.7	0.79	ug/Kg		09/10/20 09:25	09/11/20 22:00	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 410-42378/1-A
Matrix: Solid
Analysis Batch: 43144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (n.o.s.) (1C)	ND		17	4.0	ug/Kg		09/10/20 09:25	09/11/20 22:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*91*		*46 - 152*	*09/10/20 09:25*	*09/11/20 22:00*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*96*		*46 - 152*	*09/10/20 09:25*	*09/11/20 22:00*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*71*		*19 - 136*	*09/10/20 09:25*	*09/11/20 22:00*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*71*		*19 - 136*	*09/10/20 09:25*	*09/11/20 22:00*	*1*

Lab Sample ID: LCS 410-42378/2-A
Matrix: Solid
Analysis Batch: 43144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (2C)	3.38	3.18		ug/Kg		94	65 - 124
alpha-Chlordane (1C)	3.33	3.21		ug/Kg		96	73 - 131
beta-BHC (2C)	3.33	3.19		ug/Kg		96	68 - 129
delta-BHC (1C)	3.38	3.43		ug/Kg		102	45 - 151
Endosulfan I (1C)	3.38	3.31		ug/Kg		98	62 - 119
Endosulfan II (1C)	6.67	7.00		ug/Kg		105	65 - 126
Endosulfan sulfate (1C)	6.71	6.80		ug/Kg		101	71 - 132
Endrin (1C)	6.71	6.65		ug/Kg		99	86 - 135
gamma-BHC (Lindane) (1C)	3.33	3.32		ug/Kg		99	68 - 133
gamma-Chlordane (1C)	3.33	3.29		ug/Kg		99	76 - 134
Heptachlor (1C)	3.38	2.97		ug/Kg		88	66 - 118
Heptachlor epoxide (1C)	3.33	3.16		ug/Kg		95	74 - 128
Methoxychlor (2C)	33.6	33.7		ug/Kg		100	88 - 145
p,p'-DDD (1C)	6.71	8.16		ug/Kg		122	69 - 138
p,p'-DDE (1C)	6.71	7.51		ug/Kg		112	68 - 146
p,p'-DDT (1C)	6.71	7.10		ug/Kg		106	67 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*96*		*46 - 152*
DCB Decachlorobiphenyl (Surr) (2C)	*98*		*46 - 152*
Tetrachloro-m-xylene (Surr) (1C)	*74*		*19 - 136*
Tetrachloro-m-xylene (Surr) (2C)	*77*		*19 - 136*

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 43144

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 42378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (1C)	ND		3.77	2.69		ug/Kg	☼	71	65 - 124
alpha-Chlordane (1C)	0.25	J F1	3.73	2.71	F1	ug/Kg	☼	66	73 - 131
beta-BHC (1C)	ND		3.73	2.62		ug/Kg	☼	70	68 - 129
delta-BHC (1C)	ND		3.77	2.83		ug/Kg	☼	75	45 - 151

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 43144

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 42378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan I (2C)	ND	F1	3.77	2.69		ug/Kg	☼	71	62 - 119
Endosulfan II (1C)	ND		7.45	5.24		ug/Kg	☼	70	65 - 126
Endosulfan sulfate (1C)	ND	F1	7.50	4.90	F1	ug/Kg	☼	65	71 - 132
Endrin (1C)	ND	F1	7.50	5.62	F1	ug/Kg	☼	75	86 - 135
gamma-BHC (Lindane) (1C)	ND		3.73	2.65		ug/Kg	☼	71	68 - 133
gamma-Chlordane (2C)	0.34	J F1	3.73	3.01	F1	ug/Kg	☼	72	76 - 134
Heptachlor (1C)	ND	F1	3.77	2.37	F1	ug/Kg	☼	63	66 - 118
Heptachlor epoxide (1C)	ND	F1	3.73	2.58	F1	ug/Kg	☼	69	74 - 128
Methoxychlor (1C)	ND	F1	37.6	29.0	F1	ug/Kg	☼	77	88 - 145
p,p'-DDD (2C)	0.38	J F1 p	7.50	4.91	F1 p	ug/Kg	☼	60	69 - 138
p,p'-DDE (1C)	5.4		7.50	10.5		ug/Kg	☼	68	68 - 146
p,p'-DDT (1C)	6.1	F1	7.50	10.6	F1	ug/Kg	☼	60	67 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*72*		*46 - 152*
DCB Decachlorobiphenyl (Surr) (2C)	*82*		*46 - 152*
Tetrachloro-m-xylene (Surr) (1C)	*78*		*19 - 136*
Tetrachloro-m-xylene (Surr) (2C)	*73*		*19 - 136*

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 43144

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 42378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC (1C)	ND		3.78	3.11		ug/Kg	☼	82	65 - 124	15	50
alpha-Chlordane (1C)	0.25	J F1	3.73	3.30		ug/Kg	☼	82	73 - 131	20	50
beta-BHC (1C)	ND		3.73	3.11		ug/Kg	☼	83	68 - 129	17	50
delta-BHC (1C)	ND		3.78	3.49		ug/Kg	☼	92	45 - 151	21	50
Endosulfan I (2C)	ND	F1	3.78	3.22		ug/Kg	☼	85	62 - 119	18	50
Endosulfan II (1C)	ND		7.47	6.61		ug/Kg	☼	88	65 - 126	23	50
Endosulfan sulfate (1C)	ND	F1	7.51	6.45		ug/Kg	☼	86	71 - 132	27	50
Endrin (1C)	ND	F1	7.51	7.04		ug/Kg	☼	94	86 - 135	22	50
gamma-BHC (Lindane) (1C)	ND		3.73	3.11		ug/Kg	☼	83	68 - 133	16	50
gamma-Chlordane (2C)	0.34	J F1	3.73	3.44		ug/Kg	☼	83	76 - 134	13	50
Heptachlor (1C)	ND	F1	3.78	3.05		ug/Kg	☼	81	66 - 118	25	50
Heptachlor epoxide (1C)	ND	F1	3.73	3.16		ug/Kg	☼	85	74 - 128	20	50
Methoxychlor (1C)	ND	F1	37.7	38.5		ug/Kg	☼	102	88 - 145	28	50
p,p'-DDD (2C)	0.38	J F1 p	7.51	5.95	p	ug/Kg	☼	74	69 - 138	19	50
p,p'-DDE (1C)	5.4		7.51	13.2		ug/Kg	☼	104	68 - 146	23	50
p,p'-DDT (1C)	6.1	F1	7.51	13.5		ug/Kg	☼	99	67 - 135	24	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*83*		*46 - 152*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 43144

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 42378

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (2C)	*90*		*46 - 152*
Tetrachloro-m-xylene (Surr) (1C)	*80*		*19 - 136*
Tetrachloro-m-xylene (Surr) (2C)	*76*		*19 - 136*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-40403/1-A
Matrix: Water
Analysis Batch: 41924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		0.050	0.010	ug/L		09/02/20 20:07	09/09/20 14:05	1
2,4-D (1C)	ND		0.60	0.25	ug/L		09/02/20 20:07	09/09/20 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*60*		*34 - 142*	*09/02/20 20:07*	*09/09/20 14:05*	*1*

Lab Sample ID: LCS 410-40403/2-A
Matrix: Water
Analysis Batch: 41924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40403

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP) (1C)			0.250	0.201		ug/L		81	81 - 137		
2,4-D (2C)			2.51	1.78		ug/L		71	70 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*67*		*34 - 142*

Lab Sample ID: LCSD 410-40403/3-A
Matrix: Water
Analysis Batch: 41924

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40403

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP) (1C)			0.250	0.183	*	ug/L		73	81 - 137	10	30
2,4-D (2C)			2.51	1.57	*	ug/L		63	70 - 134	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*63*		*34 - 142*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 410-43110/1-A
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		1.7	0.75	ug/Kg		09/11/20 18:54	09/15/20 09:52	1
2,4-D (1C)	ND		36	12	ug/Kg		09/11/20 18:54	09/15/20 09:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*54*		*27 - 136*	*09/11/20 18:54*	*09/15/20 09:52*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*56*		*27 - 136*	*09/11/20 18:54*	*09/15/20 09:52*	*1*

Lab Sample ID: LCS 410-43110/2-A
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP) (1C)	8.33	4.72		ug/Kg		57	49 - 133
2,4-D (1C)	83.6	43.5	*	ug/Kg		52	57 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*50*		*27 - 136*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*50*		*27 - 136*

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 43110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP) (1C)	ND	F1	9.39	3.34	F1	ug/Kg	☼	36	70 - 130
2,4-D (2C)	ND	F1 *	94.2	32.0	J F1	ug/Kg	☼	34	57 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*27*		*27 - 136*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*25*	*X*	*27 - 136*

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 43110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP) (1C)	ND	F1	9.26	4.20	F1	ug/Kg	☼	45	70 - 130	23	50
2,4-D (1C)	ND	F1 *	92.8	38.6	J F1	ug/Kg	☼	42	57 - 142	19	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*41*		*27 - 136*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 43110

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr) (2C)	39		27 - 136

Method: 531.1 - Carbamate Pesticides (HPLC)

Lab Sample ID: MB 410-40377/1-A
Matrix: Water
Analysis Batch: 40400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/02/20 20:01	09/03/20 09:54	1
Carbofuran	ND		2.0	0.80	ug/L		09/02/20 20:01	09/03/20 09:54	1
Methiocarb	ND		2.0	1.0	ug/L		09/02/20 20:01	09/03/20 09:54	1
Methomyl	ND		2.0	1.0	ug/L		09/02/20 20:01	09/03/20 09:54	1
Oxamyl	ND		2.0	1.0	ug/L		09/02/20 20:01	09/03/20 09:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	105		80 - 120	09/02/20 20:01	09/03/20 09:54	1

Lab Sample ID: LCS 410-40377/2-A
Matrix: Water
Analysis Batch: 40400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	2.00	2.25		ug/L		113	80 - 120
Carbofuran	2.00	3.23	*	ug/L		161	80 - 120
Methiocarb	2.00	2.25		ug/L		112	80 - 120
Methomyl	2.00	2.35		ug/L		117	80 - 120
Oxamyl	2.00	2.45	*	ug/L		122	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	103		80 - 120

Lab Sample ID: 410-12366-11 MS
Matrix: Water
Analysis Batch: 40400

Client Sample ID: PAD-EB2-082820
Prep Type: Total/NA
Prep Batch: 40377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	ND		2.00	2.27		ug/L		113	80 - 120
Carbofuran	ND	F1 *	2.00	2.66	F1	ug/L		133	80 - 120
Methiocarb	ND	F1 F2	2.00	1.57	J F1	ug/L		78	80 - 120
Methomyl	ND	F1	2.00	2.49	F1	ug/L		124	80 - 120
Oxamyl	ND	*	2.00	2.39		ug/L		119	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	105		80 - 120

Method: 531.1 - Carbamate Pesticides (HPLC)

Lab Sample ID: 410-12366-11 MSD
Matrix: Water
Analysis Batch: 40400

Client Sample ID: PAD-EB2-082820
Prep Type: Total/NA
Prep Batch: 40377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbaryl	ND		2.00	2.21		ug/L		110	80 - 120	3	30
Carbofuran	ND	F1 *	2.00	2.30		ug/L		115	80 - 120	15	30
Methiocarb	ND	F1 F2	2.00	2.60	F1 F2	ug/L		130	80 - 120	50	30
Methomyl	ND	F1	2.00	2.44	F1	ug/L		122	80 - 120	2	30
Oxamyl	ND	*	2.00	2.28		ug/L		114	80 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*107*		*80 - 120*

Method: 8318 - Carbamate (HPLC)

Lab Sample ID: MB 410-40911/1-A
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20
Carbofuran	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20
Methiocarb	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20
Methomyl	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20
Oxamyl	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*87*		*27 - 131*	*09/03/20 23:16*	*09/09/20 12:23*	*20*

Lab Sample ID: LCS 410-40911/2-A
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	501	422		ug/Kg		84	57 - 115
Carbofuran	500	452		ug/Kg		90	73 - 115
Methiocarb	501	456		ug/Kg		91	66 - 115
Methomyl	502	463		ug/Kg		92	71 - 115
Oxamyl	501	458		ug/Kg		91	70 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*88*		*27 - 131*

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 40911

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	ND		565	462		ug/Kg	☼	82	57 - 115
Carbofuran	ND		564	499		ug/Kg	☼	89	73 - 115

Method: 8318 - Carbamate (HPLC) (Continued)

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 40911

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methiocarb	ND		565	502		ug/Kg	☼	89	66 - 115
Methomyl	ND		566	496		ug/Kg	☼	88	71 - 115
Oxamyl	ND		565	484		ug/Kg	☼	86	70 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*80*		*27 - 131*

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 40911

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbaryl	ND		562	449		ug/Kg	☼	80	57 - 115	3	50
Carbofuran	ND		561	479		ug/Kg	☼	85	73 - 115	4	50
Methiocarb	ND		563	477		ug/Kg	☼	85	66 - 115	5	50
Methomyl	ND		563	484		ug/Kg	☼	86	71 - 115	2	50
Oxamyl	ND		563	479		ug/Kg	☼	85	70 - 115	1	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*78*		*27 - 131*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-39141/1-A ^2
Matrix: Solid
Analysis Batch: 44379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.65	0.22	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Barium	ND		0.65	0.30	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Cadmium	ND		0.16	0.082	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Chromium	ND		0.65	0.25	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Lead	ND		0.33	0.082	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Calcium	ND		65	24	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Selenium	ND		0.65	0.21	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Nickel	ND		0.65	0.26	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Silver	ND		0.16	0.066	mg/Kg		08/31/20 08:21	09/15/20 17:14	2

Lab Sample ID: LCS 410-39141/2-A ^2
Matrix: Solid
Analysis Batch: 44379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.933	0.914		mg/Kg		98	80 - 120
Barium	4.68	5.03		mg/Kg		108	80 - 120
Cadmium	0.472	0.518		mg/Kg		110	80 - 120
Chromium	4.74	4.66		mg/Kg		98	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-39141/2-A ^2
Matrix: Solid
Analysis Batch: 44379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.464	0.471		mg/Kg		101	80 - 120
Calcium	380	387		mg/Kg		102	80 - 120
Selenium	0.943	0.977		mg/Kg		104	80 - 120
Nickel	4.74	5.05		mg/Kg		107	80 - 120
Silver	4.75	5.05		mg/Kg		106	80 - 120

Lab Sample ID: MB 410-39147/1-A ^2
Matrix: Solid
Analysis Batch: 44380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.79	0.26	mg/Kg		08/31/20 08:29	09/15/20 18:22	2
Barium	ND		0.79	0.36	mg/Kg		08/31/20 08:29	09/15/20 18:22	2
Cadmium	ND		0.20	0.10	mg/Kg		08/31/20 08:29	09/15/20 18:22	2
Chromium	ND		0.79	0.30	mg/Kg		08/31/20 08:29	09/15/20 18:22	2
Lead	ND		0.40	0.10	mg/Kg		08/31/20 08:29	09/15/20 18:22	2
Calcium	ND		79	30	mg/Kg		08/31/20 08:29	09/15/20 18:22	2
Selenium	ND		0.79	0.26	mg/Kg		08/31/20 08:29	09/15/20 18:22	2
Nickel	ND		0.79	0.32	mg/Kg		08/31/20 08:29	09/15/20 18:22	2
Silver	ND		0.20	0.080	mg/Kg		08/31/20 08:29	09/15/20 18:22	2

Lab Sample ID: LCS 410-39147/2-A ^2
Matrix: Solid
Analysis Batch: 44380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.924	0.897		mg/Kg		97	80 - 120
Barium	4.64	4.81		mg/Kg		104	80 - 120
Cadmium	0.467	0.462		mg/Kg		99	80 - 120
Chromium	4.69	4.35		mg/Kg		93	80 - 120
Lead	0.460	0.452		mg/Kg		98	80 - 120
Calcium	377	369		mg/Kg		98	80 - 120
Selenium	0.935	0.948		mg/Kg		101	80 - 120
Nickel	4.69	4.79		mg/Kg		102	80 - 120
Silver	4.70	4.75		mg/Kg		101	80 - 120

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 44380

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 39147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.8	F1	1.98	6.73		mg/Kg	☼	97	75 - 125
Barium	84		9.91	92.8	4	mg/Kg	☼	91	75 - 125
Cadmium	0.20		0.999	1.14		mg/Kg	☼	94	75 - 125
Calcium	940		805	1760		mg/Kg	☼	102	75 - 125
Chromium	23	F1	10.0	35.2		mg/Kg	☼	125	75 - 125
Lead	23		0.983	23.8	4	mg/Kg	☼	90	75 - 125
Nickel	14		10.0	22.8		mg/Kg	☼	87	75 - 125
Selenium	ND		2.00	2.01		mg/Kg	☼	101	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 44380

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 39147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.076	J	10.0	9.91		mg/Kg	☼	98	75 - 125

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 44380

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 39147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.8	F1	1.77	7.44	F1	mg/Kg	☼	148	75 - 125	10	20
Barium	84		8.89	99.2	4	mg/Kg	☼	173	75 - 125	7	20
Cadmium	0.20		0.896	1.02		mg/Kg	☼	92	75 - 125	10	20
Calcium	940		722	1670		mg/Kg	☼	101	75 - 125	5	20
Chromium	23	F1	8.99	37.7	F1	mg/Kg	☼	167	75 - 125	7	20
Lead	23		0.881	23.3	4	mg/Kg	☼	35	75 - 125	2	20
Nickel	14		8.99	22.5		mg/Kg	☼	92	75 - 125	2	20
Selenium	ND		1.79	1.86		mg/Kg	☼	104	75 - 125	8	20
Silver	0.076	J	9.01	8.87		mg/Kg	☼	98	75 - 125	11	20

Lab Sample ID: 410-12366-1 DU
Matrix: Solid
Analysis Batch: 44380

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 39147

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	4.8	F1	5.90		mg/Kg	☼	20	20
Barium	84		89.7		mg/Kg	☼	7	20
Cadmium	0.20		0.202	J	mg/Kg	☼	2	20
Calcium	940		1040		mg/Kg	☼	10	20
Chromium	23	F1	28.3	F3	mg/Kg	☼	22	20
Lead	23		24.2		mg/Kg	☼	5	20
Nickel	14		15.7		mg/Kg	☼	10	20
Selenium	ND		ND		mg/Kg	☼	NC	20
Silver	0.076	J	ND		mg/Kg	☼	NC	20

Lab Sample ID: MB 410-39162/1-A ^2
Matrix: Solid
Analysis Batch: 41703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.79	0.26	mg/Kg		08/31/20 09:09	09/08/20 13:04	2
Barium	ND		0.79	0.36	mg/Kg		08/31/20 09:09	09/08/20 13:04	2
Cadmium	ND		0.20	0.10	mg/Kg		08/31/20 09:09	09/08/20 13:04	2
Chromium	ND		0.79	0.30	mg/Kg		08/31/20 09:09	09/08/20 13:04	2
Lead	ND		0.40	0.10	mg/Kg		08/31/20 09:09	09/08/20 13:04	2
Calcium	ND		79	30	mg/Kg		08/31/20 09:09	09/08/20 13:04	2
Selenium	ND		0.79	0.26	mg/Kg		08/31/20 09:09	09/08/20 13:04	2
Nickel	ND		0.79	0.32	mg/Kg		08/31/20 09:09	09/08/20 13:04	2
Silver	ND		0.20	0.080	mg/Kg		08/31/20 09:09	09/08/20 13:04	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-39162/2-A ^2
Matrix: Solid
Analysis Batch: 41703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.989	0.987		mg/Kg		100	80 - 120
Barium	4.96	5.09		mg/Kg		103	80 - 120
Cadmium	0.500	0.489		mg/Kg		98	80 - 120
Chromium	5.02	5.02		mg/Kg		100	80 - 120
Lead	0.492	0.539		mg/Kg		110	80 - 120
Calcium	403	430		mg/Kg		107	80 - 120
Selenium	1.00	1.00		mg/Kg		100	80 - 120
Nickel	5.02	5.27		mg/Kg		105	80 - 120
Silver	5.03	4.98		mg/Kg		99	80 - 120

Lab Sample ID: MB 410-39682/1-A
Matrix: Water
Analysis Batch: 41191

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		09/01/20 10:13	09/04/20 09:08	1
Barium	ND		2.0	0.75	ug/L		09/01/20 10:13	09/04/20 09:08	1
Cadmium	ND		0.50	0.15	ug/L		09/01/20 10:13	09/04/20 09:08	1
Chromium	ND		2.0	0.33	ug/L		09/01/20 10:13	09/04/20 09:08	1
Lead	ND		0.50	0.071	ug/L		09/01/20 10:13	09/04/20 09:08	1
Calcium	ND		100	74	ug/L		09/01/20 10:13	09/04/20 09:08	1
Selenium	ND		1.0	0.28	ug/L		09/01/20 10:13	09/04/20 09:08	1
Nickel	ND		1.0	0.60	ug/L		09/01/20 10:13	09/04/20 09:08	1
Silver	ND		0.50	0.17	ug/L		09/01/20 10:13	09/04/20 09:08	1

Lab Sample ID: LCS 410-39682/26-A
Matrix: Water
Analysis Batch: 41191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	60.0	60.7		ug/L		101	85 - 120
Barium	10.0	9.71		ug/L		97	80 - 120
Cadmium	9.96	10.0		ug/L		101	86 - 113
Chromium	30.0	28.6		ug/L		95	90 - 115
Lead	30.0	29.3		ug/L		98	90 - 115
Calcium	400	442		ug/L		110	85 - 120
Selenium	101	91.6		ug/L		91	80 - 120
Nickel	20.1	21.3		ug/L		106	90 - 114
Silver	20.0	20.0		ug/L		100	88 - 113

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-39225/1-A
Matrix: Water
Analysis Batch: 39755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		08/31/20 10:59	09/01/20 10:51	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 410-39225/2-A
Matrix: Water
Analysis Batch: 39755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39225

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			1.00	1.03		ug/L		103	80 - 118		

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 410-39180/1-A
Matrix: Solid
Analysis Batch: 39832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.060	0.025	mg/Kg		08/31/20 09:31	09/01/20 14:08	1

Lab Sample ID: LCS 410-39180/2-A
Matrix: Solid
Analysis Batch: 39832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39180

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.182		mg/Kg		109	80 - 120		

Lab Sample ID: MB 410-39186/1-A
Matrix: Solid
Analysis Batch: 39323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.057	0.024	mg/Kg		08/31/20 09:35	08/31/20 12:56	1

Lab Sample ID: LCS 410-39186/2-A
Matrix: Solid
Analysis Batch: 39323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39186

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.177		mg/Kg		106	80 - 120		

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 39323

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 39186

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.088		0.174	0.270		mg/Kg	☼	105	80 - 120		

Lab Sample ID: 410-12366-1 MSD
Matrix: Solid
Analysis Batch: 39323

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 39186

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.088		0.179	0.266		mg/Kg	☼	99	80 - 120	2	20

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 410-12366-1 DU
Matrix: Solid
Analysis Batch: 39323

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 39186

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.088		0.301	F3	mg/Kg	☼	110	20

Method: 9012A - Cyanide, Amenable

Lab Sample ID: 410-12366-1 DU
Matrix: Solid
Analysis Batch: 43771

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Amenable	ND		ND		mg/Kg	☼	NC	

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 410-42554/2-A
Matrix: Water
Analysis Batch: 42787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		09/10/20 11:27	09/10/20 21:41	1

Lab Sample ID: LCS 410-42554/1-A
Matrix: Water
Analysis Batch: 42787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42554

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.194		mg/L		97	90 - 110

Lab Sample ID: MB 410-42900/2-A
Matrix: Solid
Analysis Batch: 43567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.18	mg/Kg		09/11/20 08:35	09/14/20 10:37	1

Lab Sample ID: LCS 410-42900/1-A
Matrix: Solid
Analysis Batch: 43567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	10.0	9.26		mg/Kg		93	90 - 110

Lab Sample ID: 410-12366-9 MS
Matrix: Solid
Analysis Batch: 43567

Client Sample ID: PAD-24-0-SE-0-0.5
Prep Type: Total/NA
Prep Batch: 42900

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND	H	6.53	5.69		mg/Kg	☼	87	45 - 145

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 410-12366-9 DU
Matrix: Solid
Analysis Batch: 43567

Client Sample ID: PAD-24-0-SE-0-0.5
Prep Type: Total/NA
Prep Batch: 42900

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	ND	H		ND		mg/Kg	☼			NC	20

Lab Sample ID: MB 410-43028/2-A
Matrix: Solid
Analysis Batch: 43567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0	0.36	mg/Kg		09/11/20 13:03	09/14/20 10:28	1

Lab Sample ID: LCS 410-43028/1-A
Matrix: Solid
Analysis Batch: 43567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			10.0	9.70		mg/Kg		97	90 - 110		

Lab Sample ID: 410-12366-1 MS
Matrix: Solid
Analysis Batch: 43567

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 43028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND	H	5.56	4.30	H	mg/Kg	☼	77	45 - 145		

Lab Sample ID: 410-12366-1 DU
Matrix: Solid
Analysis Batch: 43567

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Prep Type: Total/NA
Prep Batch: 43028

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	ND	H		ND	H	mg/Kg	☼			NC	20

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

GC/MS VOA

Prep Batch: 38834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	5035	
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	5035	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	5035	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	5035	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	5035	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	5035	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	5035	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	5035	
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	5035	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	5035	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	5035	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	5035	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	5035	

Analysis Batch: 40536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-10	PAD-TB2-082820	Total/NA	Water	8260C	
410-12366-11	PAD-EB2-082820	Total/NA	Water	8260C	
MB 410-40536/9	Method Blank	Total/NA	Water	8260C	
LCS 410-40536/6	Lab Control Sample	Total/NA	Water	8260C	
LCS 410-40536/7	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 41030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8260C	38834
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	8260C	38834
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	8260C	38834
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	8260C	38834
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	8260C	38834
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	8260C	38834
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	8260C	38834
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	8260C	38834
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	8260C	38834
MB 410-41030/31	Method Blank	Total/NA	Solid	8260C	
LCS 410-41030/5	Lab Control Sample	Total/NA	Solid	8260C	
LCS 410-41030/7	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-41030/6	Lab Control Sample Dup	Total/NA	Solid	8260C	
LCSD 410-41030/8	Lab Control Sample Dup	Total/NA	Solid	8260C	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8260C	38834
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8260C	38834
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8260C	38834
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8260C	38834

GC/MS Semi VOA

Prep Batch: 40483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	3546	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	3546	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 40483 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-40483/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-40483/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 410-40483/3-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 410-40483/4-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 40970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3546	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	3546	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	3546	
MB 410-40970/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-40970/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 410-40970/5-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 410-40970/6-A	Lab Control Sample Dup	Total/NA	Solid	3546	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3546	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3546	

Prep Batch: 40982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	3510C	
MB 410-40982/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-40982/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 410-40982/3-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-40982/4-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 41328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	8270D	40483
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	8270D	40483
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	8270D	40483
MB 410-40483/1-A	Method Blank	Total/NA	Solid	8270D	40483
LCS 410-40483/2-A	Lab Control Sample	Total/NA	Solid	8270D	40483
LCS 410-40483/3-A	Lab Control Sample	Total/NA	Solid	8270D	40483
LCSD 410-40483/4-A	Lab Control Sample Dup	Total/NA	Solid	8270D	40483

Analysis Batch: 41407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8270D	40970
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	8270D	40483
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	8270D	40970
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	8270D	40970
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	8270D	40970
MB 410-40970/1-A	Method Blank	Total/NA	Solid	8270D	40970
LCS 410-40970/2-A	Lab Control Sample	Total/NA	Solid	8270D	40970
LCS 410-40970/5-A	Lab Control Sample	Total/NA	Solid	8270D	40970
LCSD 410-40970/6-A	Lab Control Sample Dup	Total/NA	Solid	8270D	40970
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8270D	40970
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8270D	40970

GC/MS Semi VOA

Analysis Batch: 41433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	8270D	40982
MB 410-40982/1-A	Method Blank	Total/NA	Water	8270D	40982
LCS 410-40982/2-A	Lab Control Sample	Total/NA	Water	8270D	40982
LCS 410-40982/3-A	Lab Control Sample	Total/NA	Water	8270D	40982
LCSD 410-40982/4-A	Lab Control Sample Dup	Total/NA	Water	8270D	40982

Prep Batch: 43084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	3546	
MB 410-43084/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-43084/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 410-43084/4-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 43302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-43084/1-A	Method Blank	Total/NA	Solid	8270D	43084
LCS 410-43084/2-A	Lab Control Sample	Total/NA	Solid	8270D	43084
LCSD 410-43084/4-A	Lab Control Sample Dup	Total/NA	Solid	8270D	43084

Analysis Batch: 44711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	8270D	43084

GC VOA

Leach Batch: 40089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Soluble	Solid	DI Leach	
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Soluble	Solid	DI Leach	
410-12366-3	PAD-23-SW-0-0.5	Soluble	Solid	DI Leach	
410-12366-4	PAD-23-S-CTR-0-0.5	Soluble	Solid	DI Leach	
410-12366-5	PAD-23-24-S-0-0.5	Soluble	Solid	DI Leach	
410-12366-6	PAD-24-S-CTR-0-0.5	Soluble	Solid	DI Leach	
410-12366-7	PAD-24-24-0-S-0-0.5	Soluble	Solid	DI Leach	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Soluble	Solid	DI Leach	
410-12366-9	PAD-24-0-SE-0-0.5	Soluble	Solid	DI Leach	
MB 410-40089/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 410-40089/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Soluble	Solid	DI Leach	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Soluble	Solid	DI Leach	

Prep Batch: 41594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	8015 DAI	
MB 410-41594/1-A	Method Blank	Total/NA	Water	8015 DAI	
LCS 410-41594/2-A	Lab Control Sample	Total/NA	Water	8015 DAI	

Analysis Batch: 41600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Soluble	Solid	8015B	40089
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Soluble	Solid	8015B	40089

GC VOA (Continued)

Analysis Batch: 41600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-3	PAD-23-SW-0-0.5	Soluble	Solid	8015B	40089
410-12366-4	PAD-23-S-CTR-0-0.5	Soluble	Solid	8015B	40089
410-12366-5	PAD-23-24-S-0-0.5	Soluble	Solid	8015B	40089
410-12366-6	PAD-24-S-CTR-0-0.5	Soluble	Solid	8015B	40089
410-12366-7	PAD-24-24-0-S-0-0.5	Soluble	Solid	8015B	40089
410-12366-8	PAD-24-0-S-CTR-0-0.5	Soluble	Solid	8015B	40089
410-12366-9	PAD-24-0-SE-0-0.5	Soluble	Solid	8015B	40089
410-12366-11	PAD-EB2-082820	Total/NA	Water	8015B	41594
MB 410-40089/1-A	Method Blank	Soluble	Solid	8015B	40089
MB 410-41594/1-A	Method Blank	Total/NA	Water	8015B	41594
LCS 410-40089/2-A	Lab Control Sample	Soluble	Solid	8015B	40089
LCS 410-41594/2-A	Lab Control Sample	Total/NA	Water	8015B	41594
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Soluble	Solid	8015B	40089
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Soluble	Solid	8015B	40089

GC Semi VOA

Prep Batch: 40303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	3546	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	3546	
MB 410-40303/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-40303/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 40403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	8151A	
MB 410-40403/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-40403/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-40403/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 40934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	8081B	40303
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	8081B	40303
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	8081B	40303
MB 410-40303/1-A	Method Blank	Total/NA	Solid	8081B	40303
LCS 410-40303/2-A	Lab Control Sample	Total/NA	Solid	8081B	40303

Prep Batch: 41209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	3510C	
MB 410-41209/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-41209/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-41209/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 41344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	8081B	41209
MB 410-41209/1-A	Method Blank	Total/NA	Water	8081B	41209

GC Semi VOA (Continued)

Analysis Batch: 41344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-41209/2-A	Lab Control Sample	Total/NA	Water	8081B	41209
LCSD 410-41209/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	41209

Analysis Batch: 41924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	8151A	40403
MB 410-40403/1-A	Method Blank	Total/NA	Water	8151A	40403
LCS 410-40403/2-A	Lab Control Sample	Total/NA	Water	8151A	40403
LCSD 410-40403/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	40403

Prep Batch: 42378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3546	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	3546	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	3546	
410-12366-5 - DL	PAD-23-24-S-0-0.5	Total/NA	Solid	3546	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	3546	
410-12366-7 - DL	PAD-24-24-0-S-0-0.5	Total/NA	Solid	3546	
MB 410-42378/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-42378/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3546	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3546	

Prep Batch: 43110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8151A	
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	8151A	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	8151A	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	8151A	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	8151A	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	8151A	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	8151A	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	8151A	
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	8151A	
MB 410-43110/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 410-43110/2-A	Lab Control Sample	Total/NA	Solid	8151A	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8151A	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8151A	

Analysis Batch: 43144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8081B	42378
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	8081B	42378
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	8081B	42378
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	8081B	42378
410-12366-5 - DL	PAD-23-24-S-0-0.5	Total/NA	Solid	8081B	42378
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	8081B	42378
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	8081B	42378
410-12366-7 - DL	PAD-24-24-0-S-0-0.5	Total/NA	Solid	8081B	42378

GC Semi VOA (Continued)

Analysis Batch: 43144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-42378/1-A	Method Blank	Total/NA	Solid	8081B	42378
LCS 410-42378/2-A	Lab Control Sample	Total/NA	Solid	8081B	42378
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8081B	42378
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8081B	42378

Analysis Batch: 43820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8151A	43110
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	8151A	43110
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	8151A	43110
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	8151A	43110
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	8151A	43110
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	8151A	43110
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	8151A	43110
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	8151A	43110
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	8151A	43110
MB 410-43110/1-A	Method Blank	Total/NA	Solid	8151A	43110
LCS 410-43110/2-A	Lab Control Sample	Total/NA	Solid	8151A	43110
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8151A	43110
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8151A	43110

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Prep Batch: 40377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	531	
MB 410-40377/1-A	Method Blank	Total/NA	Water	531	
LCS 410-40377/2-A	Lab Control Sample	Total/NA	Water	531	
410-12366-11 MS	PAD-EB2-082820	Total/NA	Water	531	
410-12366-11 MSD	PAD-EB2-082820	Total/NA	Water	531	

Analysis Batch: 40400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	531.1	40377
MB 410-40377/1-A	Method Blank	Total/NA	Water	531.1	40377
LCS 410-40377/2-A	Lab Control Sample	Total/NA	Water	531.1	40377
410-12366-11 MS	PAD-EB2-082820	Total/NA	Water	531.1	40377
410-12366-11 MSD	PAD-EB2-082820	Total/NA	Water	531.1	40377

Prep Batch: 40911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	8318_S_Prep	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	8318_S_Prep	
MB 410-40911/1-A	Method Blank	Total/NA	Solid	8318_S_Prep	

HPLC/IC (Continued)

Prep Batch: 40911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-40911/2-A	Lab Control Sample	Total/NA	Solid	8318_S_Prep	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8318_S_Prep	

Analysis Batch: 42224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8318	40911
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	8318	40911
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	8318	40911
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	8318	40911
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	8318	40911
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	8318	40911
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	8318	40911
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	8318	40911
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	8318	40911
MB 410-40911/1-A	Method Blank	Total/NA	Solid	8318	40911
LCS 410-40911/2-A	Lab Control Sample	Total/NA	Solid	8318	40911
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8318	40911
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	8318	40911

Metals

Prep Batch: 39141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	3050B	
MB 410-39141/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-39141/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 39147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3050B	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	3050B	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	3050B	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	3050B	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	3050B	
MB 410-39147/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-39147/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3050B	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3050B	
410-12366-1 DU	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	3050B	

Prep Batch: 39162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	3050B	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	3050B	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	3050B	
MB 410-39162/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-39162/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Metals

Prep Batch: 39180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	7471A	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	7471A	
MB 410-39180/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-39180/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 39186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	7471A	
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	7471A	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	7471A	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	7471A	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	7471A	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	7471A	
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	7471A	
MB 410-39186/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-39186/2-A	Lab Control Sample	Total/NA	Solid	7471A	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	7471A	
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	7471A	
410-12366-1 DU	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	7471A	

Prep Batch: 39225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	7470A	
MB 410-39225/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-39225/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 39323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	7471A	39186
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	7471A	39186
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	7471A	39186
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	7471A	39186
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	7471A	39186
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	7471A	39186
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	7471A	39186
MB 410-39186/1-A	Method Blank	Total/NA	Solid	7471A	39186
LCS 410-39186/2-A	Lab Control Sample	Total/NA	Solid	7471A	39186
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	7471A	39186
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	7471A	39186
410-12366-1 DU	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	7471A	39186

Prep Batch: 39682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	3020A	
MB 410-39682/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-39682/26-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 39755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	7470A	39225
MB 410-39225/1-A	Method Blank	Total/NA	Water	7470A	39225

Metals (Continued)

Analysis Batch: 39755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-39225/2-A	Lab Control Sample	Total/NA	Water	7470A	39225

Analysis Batch: 39832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	7471A	39180
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	7471A	39180
MB 410-39180/1-A	Method Blank	Total/NA	Solid	7471A	39180
LCS 410-39180/2-A	Lab Control Sample	Total/NA	Solid	7471A	39180

Analysis Batch: 41191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	6020A	39682
MB 410-39682/1-A	Method Blank	Total/NA	Water	6020A	39682
LCS 410-39682/26-A	Lab Control Sample	Total/NA	Water	6020A	39682

Analysis Batch: 41703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	6020A	39162
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	6020A	39162
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	6020A	39162
MB 410-39162/1-A ^2	Method Blank	Total/NA	Solid	6020A	39162
LCS 410-39162/2-A ^2	Lab Control Sample	Total/NA	Solid	6020A	39162

Analysis Batch: 44379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	6020A	39141
MB 410-39141/1-A ^2	Method Blank	Total/NA	Solid	6020A	39141
LCS 410-39141/2-A ^2	Lab Control Sample	Total/NA	Solid	6020A	39141

Analysis Batch: 44380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	6020A	39147
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	6020A	39147
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	6020A	39147
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	6020A	39147
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	6020A	39147
MB 410-39147/1-A ^2	Method Blank	Total/NA	Solid	6020A	39147
LCS 410-39147/2-A ^2	Lab Control Sample	Total/NA	Solid	6020A	39147
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	6020A	39147
410-12366-1 MSD	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	6020A	39147
410-12366-1 DU	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	6020A	39147

Analysis Batch: 47715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	6020A	39147
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	6020A	39147
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	6020A	39147

Analysis Batch: 48112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	6020A	39141

General Chemistry

Analysis Batch: 38804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	Moisture	

Analysis Batch: 39837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	Moisture	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	Moisture	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	Moisture	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	Moisture	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	Moisture	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	Moisture	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	Moisture	
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	Moisture	

Prep Batch: 42554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	9012A	
MB 410-42554/2-A	Method Blank	Total/NA	Water	9012A	
LCS 410-42554/1-A	Lab Control Sample	Total/NA	Water	9012A	

Analysis Batch: 42787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-11	PAD-EB2-082820	Total/NA	Water	9012A	42554
MB 410-42554/2-A	Method Blank	Total/NA	Water	9012A	42554
LCS 410-42554/1-A	Lab Control Sample	Total/NA	Water	9012A	42554

Prep Batch: 42900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	9012A	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	9012A	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	9012A	
MB 410-42900/2-A	Method Blank	Total/NA	Solid	9012A	
LCS 410-42900/1-A	Lab Control Sample	Total/NA	Solid	9012A	
410-12366-9 MS	PAD-24-0-SE-0-0.5	Total/NA	Solid	9012A	
410-12366-9 DU	PAD-24-0-SE-0-0.5	Total/NA	Solid	9012A	

Prep Batch: 43028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	9012A	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	9012A	
MB 410-43028/2-A	Method Blank	Total/NA	Solid	9012A	
LCS 410-43028/1-A	Lab Control Sample	Total/NA	Solid	9012A	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	
410-12366-1 DU	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	

Analysis Batch: 43567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	43028

General Chemistry (Continued)

Analysis Batch: 43567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	9012A	43028
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	9012A	43028
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	9012A	42900
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	9012A	42900
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	9012A	42900
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	9012A	42900
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	9012A	42900
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	9012A	42900
MB 410-42900/2-A	Method Blank	Total/NA	Solid	9012A	42900
MB 410-43028/2-A	Method Blank	Total/NA	Solid	9012A	43028
LCS 410-42900/1-A	Lab Control Sample	Total/NA	Solid	9012A	42900
LCS 410-43028/1-A	Lab Control Sample	Total/NA	Solid	9012A	43028
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	43028
410-12366-9 MS	PAD-24-0-SE-0-0.5	Total/NA	Solid	9012A	42900
410-12366-1 DU	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	43028
410-12366-9 DU	PAD-24-0-SE-0-0.5	Total/NA	Solid	9012A	42900

Analysis Batch: 43771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12366-1	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Total/NA	Solid	9012A	
410-12366-3	PAD-23-SW-0-0.5	Total/NA	Solid	9012A	
410-12366-4	PAD-23-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12366-5	PAD-23-24-S-0-0.5	Total/NA	Solid	9012A	
410-12366-6	PAD-24-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12366-7	PAD-24-24-0-S-0-0.5	Total/NA	Solid	9012A	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12366-9	PAD-24-0-SE-0-0.5	Total/NA	Solid	9012A	
410-12366-11	PAD-EB2-082820	Total/NA	Water	9012A	
410-12366-1 MS	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	
410-12366-1 DU	PAD-23-24-SUMPS-0-0.5	Total/NA	Solid	9012A	

Lab Chronicle

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	39837	09/01/20 16:16	OEL4	ELLE

Client Sample ID: PAD-23-24-SUMPS-0-0.5
Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-1
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:20	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 15:48	Z6JB	ELLE
Total/NA	Prep	3546			40970	09/04/20 10:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41407	09/06/20 15:51	W6XI	ELLE
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 01:00	LXF2	ELLE
Total/NA	Prep	3546			42378	09/10/20 09:25	A2VL	ELLE
Total/NA	Analysis	8081B		1	43144	09/11/20 22:25	WN7O	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 10:58	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 02:21	GM5C	ELLE
Total/NA	Prep	3050B			39147	08/31/20 08:29	UAMX	ELLE
Total/NA	Analysis	6020A		2	44380	09/15/20 18:25	BMB	ELLE
Total/NA	Prep	7471A			39186	08/31/20 09:35	UAMX	ELLE
Total/NA	Analysis	7471A		1	39323	08/31/20 13:00	UEFS	ELLE
Total/NA	Prep	9012A			43028	09/11/20 13:03	NKL9	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:29	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 10:29	QU5I	ELLE

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP
Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38804	08/29/20 12:57	HV3T	ELLE

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP
Date Collected: 08/28/20 08:00
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-2
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:20	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 17:40	Z6JB	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 19:05	W6XI	ELLE
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 01:50	LXF2	ELLE

Client Sample ID: PAD-23-24-SUMPS-0-0.5DUP

Lab Sample ID: 410-12366-2
Date Collected: 08/28/20 08:00
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 11:59	ZO3C	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/16/20 20:23	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 03:11	GM5C	ELLE
Total/NA	Prep	3050B			39162	08/31/20 09:09	UAMX	ELLE
Total/NA	Analysis	6020A		2	41703	09/08/20 13:32	BMB	ELLE
Total/NA	Prep	7471A			39186	08/31/20 09:35	UAMX	ELLE
Total/NA	Analysis	7471A		1	39323	08/31/20 13:15	UEFS	ELLE
Total/NA	Prep	9012A			43028	09/11/20 13:03	NKL9	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:33	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 10:33	QU5I	ELLE

Client Sample ID: PAD-23-SW-0-0.5

Lab Sample ID: 410-12366-3
Date Collected: 08/28/20 08:15
Matrix: Solid
Date Received: 08/28/20 17:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	39837	09/01/20 16:16	OEL4	ELLE

Client Sample ID: PAD-23-SW-0-0.5

Lab Sample ID: 410-12366-3
Date Collected: 08/28/20 08:15
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:20	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 18:03	Z6JB	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		5	41328	09/05/20 19:28	W6XI	ELLE
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 02:07	LXF2	ELLE
Total/NA	Prep	3546			42378	09/10/20 09:25	A2VL	ELLE
Total/NA	Analysis	8081B		1	43144	09/11/20 23:01	WN7O	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/16/20 20:57	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 04:00	GM5C	ELLE
Total/NA	Prep	3050B			39147	08/31/20 08:29	UAMX	ELLE
Total/NA	Analysis	6020A		2	44380	09/15/20 18:38	BMB	ELLE
Total/NA	Prep	3050B			39147	08/31/20 08:29	UAMX	ELLE
Total/NA	Analysis	6020A		2	47715	09/24/20 16:13	V5SW	ELLE
Total/NA	Prep	7471A			39186	08/31/20 09:35	UAMX	ELLE
Total/NA	Analysis	7471A		10	39323	08/31/20 13:42	UEFS	ELLE

Lab Chronicle

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-23-SW-0-0.5

Lab Sample ID: 410-12366-3
Date Collected: 08/28/20 08:15
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			43028	09/11/20 13:03	NKL9	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:34	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 10:34	QU5I	ELLE

Client Sample ID: PAD-23-S-CTR-0-0.5

Lab Sample ID: 410-12366-4
Date Collected: 08/28/20 08:30
Matrix: Solid
Date Received: 08/28/20 17:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	39837	09/01/20 16:16	OEL4	ELLE

Client Sample ID: PAD-23-S-CTR-0-0.5

Lab Sample ID: 410-12366-4
Date Collected: 08/28/20 08:30
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:20	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 18:25	Z6JB	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 19:52	W6XI	ELLE
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 02:23	LXF2	ELLE
Total/NA	Prep	3546			42378	09/10/20 09:25	A2VL	ELLE
Total/NA	Analysis	8081B		1	43144	09/11/20 23:26	WN7O	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/16/20 21:30	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 04:49	GM5C	ELLE
Total/NA	Prep	3050B			39147	08/31/20 08:29	UAMX	ELLE
Total/NA	Analysis	6020A		2	44380	09/15/20 18:44	BMB	ELLE
Total/NA	Prep	7471A			39186	08/31/20 09:35	UAMX	ELLE
Total/NA	Analysis	7471A		1	39323	08/31/20 13:26	UEFS	ELLE
Total/NA	Prep	9012A			42900	09/11/20 08:35	UNJS	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:49	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 10:49	QU5I	ELLE

Client Sample ID: PAD-23-24-S-0-0.5

Lab Sample ID: 410-12366-5
Date Collected: 08/28/20 09:00
Matrix: Solid
Date Received: 08/28/20 17:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	39837	09/01/20 16:16	OEL4	ELLE

Client Sample ID: PAD-23-24-S-0-0.5

Lab Sample ID: 410-12366-5
Date Collected: 08/28/20 09:00
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:20	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 18:47	Z6JB	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41407	09/06/20 15:05	W6XI	ELLE
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 02:40	LXF2	ELLE
Total/NA	Prep	3546			42378	09/10/20 09:25	A2VL	ELLE
Total/NA	Analysis	8081B		1	43144	09/11/20 23:38	WN7O	ELLE
Total/NA	Prep	3546	DL		42378	09/10/20 09:25	A2VL	ELLE
Total/NA	Analysis	8081B	DL	5	43144	09/11/20 23:50	WN7O	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/16/20 22:03	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 05:38	GM5C	ELLE
Total/NA	Prep	3050B			39162	08/31/20 09:09	UAMX	ELLE
Total/NA	Analysis	6020A		2	41703	09/08/20 13:30	BMB	ELLE
Total/NA	Prep	7471A			39186	08/31/20 09:35	UAMX	ELLE
Total/NA	Analysis	7471A		1	39323	08/31/20 13:24	UEFS	ELLE
Total/NA	Prep	9012A			42900	09/11/20 08:35	UNJS	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:50	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 10:50	QU5I	ELLE

Client Sample ID: PAD-24-S-CTR-0-0.5

Lab Sample ID: 410-12366-6
Date Collected: 08/28/20 10:00
Matrix: Solid
Date Received: 08/28/20 17:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	39837	09/01/20 16:16	OEL4	ELLE

Client Sample ID: PAD-24-S-CTR-0-0.5

Lab Sample ID: 410-12366-6
Date Collected: 08/28/20 10:00
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:20	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 19:09	Z6JB	ELLE
Total/NA	Prep	3546			40970	09/04/20 10:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41407	09/06/20 17:01	W6XI	ELLE
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 03:30	LXF2	ELLE
Total/NA	Prep	3546			42378	09/10/20 09:25	A2VL	ELLE
Total/NA	Analysis	8081B		5	43144	09/12/20 00:02	WN7O	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/16/20 22:36	JH5B	ELLE

Client Sample ID: PAD-24-S-CTR-0-0.5

Lab Sample ID: 410-12366-6

Date Collected: 08/28/20 10:00

Matrix: Solid

Date Received: 08/28/20 17:34

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 06:28	GM5C	ELLE
Total/NA	Prep	3050B			39147	08/31/20 08:29	UAMX	ELLE
Total/NA	Analysis	6020A		2	44380	09/15/20 18:37	BMB	ELLE
Total/NA	Prep	3050B			39147	08/31/20 08:29	UAMX	ELLE
Total/NA	Analysis	6020A		2	47715	09/24/20 16:12	V5SW	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		10	39832	09/01/20 15:40	UEFS	ELLE
Total/NA	Prep	9012A			42900	09/11/20 08:35	UNJS	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:38	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 10:54	QU5I	ELLE

Client Sample ID: PAD-24-24-0-S-0-0.5

Lab Sample ID: 410-12366-7

Date Collected: 08/28/20 10:15

Matrix: Solid

Date Received: 08/28/20 17:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	39837	09/01/20 16:16	OEL4	ELLE

Client Sample ID: PAD-24-24-0-S-0-0.5

Lab Sample ID: 410-12366-7

Date Collected: 08/28/20 10:15

Matrix: Solid

Date Received: 08/28/20 17:34

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:20	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 19:32	Z6JB	ELLE
Total/NA	Prep	3546			40970	09/04/20 10:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41407	09/06/20 17:24	W6XI	ELLE
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 03:46	LXF2	ELLE
Total/NA	Prep	3546			42378	09/10/20 09:25	A2VL	ELLE
Total/NA	Analysis	8081B		1	43144	09/12/20 00:15	WN7O	ELLE
Total/NA	Prep	3546	DL		42378	09/10/20 09:25	A2VL	ELLE
Total/NA	Analysis	8081B	DL	5	43144	09/12/20 00:27	WN7O	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/16/20 23:10	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 08:06	GM5C	ELLE
Total/NA	Prep	3050B			39162	08/31/20 09:09	UAMX	ELLE
Total/NA	Analysis	6020A		2	41703	09/08/20 13:28	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		10	39832	09/01/20 15:47	UEFS	ELLE
Total/NA	Prep	9012A			42900	09/11/20 08:35	UNJS	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:42	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 11:01	QU5I	ELLE

Client Sample ID: PAD-24-0-S-CTR-0-0.5

Lab Sample ID: 410-12366-8
Date Collected: 08/28/20 10:30
Matrix: Solid
Date Received: 08/28/20 17:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	39837	09/01/20 16:16	OEL4	ELLE

Client Sample ID: PAD-24-0-S-CTR-0-0.5

Lab Sample ID: 410-12366-8
Date Collected: 08/28/20 10:30
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:20	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 19:54	Z6JB	ELLE
Total/NA	Prep	3546			40970	09/04/20 10:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41407	09/06/20 17:48	W6XI	ELLE
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 04:03	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		5	40934	09/04/20 12:20	ZO3C	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/16/20 23:43	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 08:56	GM5C	ELLE
Total/NA	Prep	3050B			39147	08/31/20 08:29	UAMX	ELLE
Total/NA	Analysis	6020A		2	44380	09/15/20 18:46	BMB	ELLE
Total/NA	Prep	3050B			39147	08/31/20 08:29	UAMX	ELLE
Total/NA	Analysis	6020A		2	47715	09/24/20 16:15	V5SW	ELLE
Total/NA	Prep	7471A			39186	08/31/20 09:35	UAMX	ELLE
Total/NA	Analysis	7471A		5	39323	08/31/20 13:44	UEFS	ELLE
Total/NA	Prep	9012A			42900	09/11/20 08:35	UNJS	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:44	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 11:02	QU5I	ELLE

Client Sample ID: PAD-24-0-SE-0-0.5

Lab Sample ID: 410-12366-9
Date Collected: 08/28/20 10:45
Matrix: Solid
Date Received: 08/28/20 17:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	39837	09/01/20 16:16	OEL4	ELLE

Client Sample ID: PAD-24-0-SE-0-0.5

Lab Sample ID: 410-12366-9
Date Collected: 08/28/20 10:45
Matrix: Solid
Date Received: 08/28/20 17:34
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38834	08/29/20 15:28	UK3O	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 20:17	Z6JB	ELLE
Total/NA	Prep	3546			43084	09/11/20 18:30	QQ3P	ELLE
Total/NA	Analysis	8270D		10	44711	09/17/20 01:34	ULM3	ELLE

Client Sample ID: PAD-24-0-SE-0-0.5

Lab Sample ID: 410-12366-9

Date Collected: 08/28/20 10:45
Date Received: 08/28/20 17:34

Matrix: Solid
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			40089	09/08/20 08:15	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/09/20 04:19	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		5	40934	09/04/20 12:31	ZO3C	ELLE
Total/NA	Prep	8151A			43110	09/11/20 18:54	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/17/20 00:17	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 09:45	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 18:05	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	48112	09/26/20 12:52	UPJE	ELLE
Total/NA	Prep	7471A			39186	08/31/20 09:35	UAMX	ELLE
Total/NA	Analysis	7471A		20	39323	08/31/20 13:46	UEFS	ELLE
Total/NA	Prep	9012A			42900	09/11/20 08:35	UNJS	ELLE
Total/NA	Analysis	9012A		1	43567	09/14/20 10:45	P684	ELLE
Total/NA	Analysis	9012A		1	43771	09/14/20 11:04	QU5I	ELLE

Client Sample ID: PAD-TB2-082820

Lab Sample ID: 410-12366-10

Date Collected: 08/28/20 00:00
Date Received: 08/28/20 17:34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	40536	09/03/20 14:21	K4WN	ELLE

Client Sample ID: PAD-EB2-082820

Lab Sample ID: 410-12366-11

Date Collected: 08/28/20 11:15
Date Received: 08/28/20 17:34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	40536	09/03/20 14:42	K4WN	ELLE
Total/NA	Prep	3510C			40982	09/04/20 08:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	41433	09/07/20 05:10	W6XI	ELLE
Total/NA	Prep	8015 DAI			41594	09/08/20 09:15	LXF2	ELLE
Total/NA	Analysis	8015B		1	41600	09/08/20 12:53	LXF2	ELLE
Total/NA	Prep	3510C			41209	09/04/20 19:15	QQ3P	ELLE
Total/NA	Analysis	8081B		1	41344	09/05/20 13:49	UAMZ	ELLE
Total/NA	Prep	8151A			40403	09/02/20 20:07	UKL2	ELLE
Total/NA	Analysis	8151A		1	41924	09/10/20 00:39	JH5B	ELLE
Total/NA	Prep	531			40377	09/02/20 20:01	GM5C	ELLE
Total/NA	Analysis	531.1		1	40400	09/03/20 13:15	GM5C	ELLE
Total/NA	Prep	3020A			39682	09/01/20 10:13	UJL8	ELLE
Total/NA	Analysis	6020A		1	41191	09/04/20 09:36	V5SW	ELLE
Total/NA	Prep	7470A			39225	08/31/20 10:59	UJL8	ELLE
Total/NA	Analysis	7470A		1	39755	09/01/20 11:40	MG7H	ELLE

Lab Chronicle

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Client Sample ID: PAD-EB2-082820

Date Collected: 08/28/20 11:15
Date Received: 08/28/20 17:34

Lab Sample ID: 410-12366-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			42554	09/10/20 11:27	NKL9	ELLE
Total/NA	Analysis	9012A		1	42787	09/10/20 21:59	QU5I	ELLE
Total/NA	Analysis	9012A		1	43771	09/15/20 00:46	QU5I	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-12366-1
Project/Site: Experimental Station

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
531.1	531	Water	Carbaryl
531.1	531	Water	Carbofuran
531.1	531	Water	Methiocarb
531.1	531	Water	Methomyl
531.1	531	Water	Oxamyl
6020A	3020A	Water	Arsenic
6020A	3020A	Water	Barium
6020A	3020A	Water	Cadmium
6020A	3020A	Water	Calcium
6020A	3020A	Water	Chromium
6020A	3020A	Water	Lead
6020A	3020A	Water	Nickel
6020A	3020A	Water	Selenium
6020A	3020A	Water	Silver
6020A	3050B	Solid	Arsenic
6020A	3050B	Solid	Barium
6020A	3050B	Solid	Cadmium
6020A	3050B	Solid	Calcium
6020A	3050B	Solid	Chromium
6020A	3050B	Solid	Lead
6020A	3050B	Solid	Nickel
6020A	3050B	Solid	Selenium
6020A	3050B	Solid	Silver
7470A	7470A	Water	Mercury
7471A	7471A	Solid	Mercury
8015B		Solid	1-Butanol (1C)
8015B		Solid	Isobutanol (1C)
8015B		Solid	Methanol (2C)
8015B	8015 DAI	Water	1-Butanol (1C)
8015B	8015 DAI	Water	Isobutanol (1C)
8015B	8015 DAI	Water	Methanol (2C)
8081B	3510C	Water	alpha-BHC (1C)
8081B	3510C	Water	alpha-Chlordane (1C)
8081B	3510C	Water	beta-BHC (1C)
8081B	3510C	Water	Chlordane (n.o.s.) (1C)
8081B	3510C	Water	delta-BHC (1C)
8081B	3510C	Water	Endosulfan I (1C)
8081B	3510C	Water	Endosulfan II (1C)
8081B	3510C	Water	Endosulfan sulfate (1C)
8081B	3510C	Water	Endrin (1C)
8081B	3510C	Water	gamma-BHC (Lindane) (1C)
8081B	3510C	Water	gamma-Chlordane (1C)
8081B	3510C	Water	Heptachlor (1C)
8081B	3510C	Water	Heptachlor epoxide (1C)
8081B	3510C	Water	Methoxychlor (1C)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8081B	3510C	Water	p,p'-DDD (1C)
8081B	3510C	Water	p,p'-DDE (1C)
8081B	3510C	Water	p,p'-DDT (1C)
8081B	3510C	Water	Toxaphene (2C)
8081B	3546	Solid	alpha-BHC (1C)
8081B	3546	Solid	alpha-BHC (2C)
8081B	3546	Solid	alpha-Chlordane (1C)
8081B	3546	Solid	alpha-Chlordane (2C)
8081B	3546	Solid	beta-BHC (1C)
8081B	3546	Solid	Chlordane (n.o.s.) (1C)
8081B	3546	Solid	delta-BHC (1C)
8081B	3546	Solid	Endosulfan I (1C)
8081B	3546	Solid	Endosulfan I (2C)
8081B	3546	Solid	Endosulfan II (1C)
8081B	3546	Solid	Endosulfan II (2C)
8081B	3546	Solid	Endosulfan sulfate (1C)
8081B	3546	Solid	Endosulfan sulfate (2C)
8081B	3546	Solid	Endrin (1C)
8081B	3546	Solid	Endrin (2C)
8081B	3546	Solid	gamma-BHC (Lindane) (1C)
8081B	3546	Solid	gamma-BHC (Lindane) (2C)
8081B	3546	Solid	gamma-Chlordane (1C)
8081B	3546	Solid	gamma-Chlordane (2C)
8081B	3546	Solid	Heptachlor (1C)
8081B	3546	Solid	Heptachlor (2C)
8081B	3546	Solid	Heptachlor epoxide (1C)
8081B	3546	Solid	Heptachlor epoxide (2C)
8081B	3546	Solid	Methoxychlor (1C)
8081B	3546	Solid	p,p'-DDD (1C)
8081B	3546	Solid	p,p'-DDD (2C)
8081B	3546	Solid	p,p'-DDE (1C)
8081B	3546	Solid	p,p'-DDE (2C)
8081B	3546	Solid	p,p'-DDT (1C)
8081B	3546	Solid	p,p'-DDT (2C)
8081B	3546	Solid	Toxaphene (1C)
8151A	8151A	Solid	2,4-D (1C)
8151A	8151A	Solid	Silvex (2,4,5-TP) (1C)
8151A	8151A	Solid	Silvex (2,4,5-TP) (2C)
8151A	8151A	Water	2,4-D (2C)
8151A	8151A	Water	Silvex (2,4,5-TP) (2C)
8260C		Water	1,1,1,2-Tetrachloroethane
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,4-Dioxane
8260C		Water	2-Butanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Acrylonitrile
8260C		Water	Benzene
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Dibromomethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethyl acetate
8260C		Water	Ethyl ether
8260C		Water	Ethyl methacrylate
8260C		Water	Ethylbenzene
8260C		Water	Freon 113
8260C		Water	Methacrylonitrile
8260C		Water	Methyl iodide
8260C		Water	Methyl methacrylate
8260C		Water	Methylene Chloride
8260C		Water	Pentachloroethane
8260C		Water	Tetrachloroethene
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,4-Dioxane

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8260C	5035	Solid	2-Butanone
8260C	5035	Solid	4-Methyl-2-pentanone
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane
8260C	5035	Solid	Ethyl acetate
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl methacrylate
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Freon 113
8260C	5035	Solid	Methacrylonitrile
8260C	5035	Solid	Methyl iodide
8260C	5035	Solid	Methyl methacrylate
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Pentachloroethane
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3510C	Water	1,2,4,5-Tetrachlorobenzene
8270D	3510C	Water	1,2,4-Trichlorobenzene
8270D	3510C	Water	1,2-Dichlorobenzene
8270D	3510C	Water	1,3-Dichlorobenzene
8270D	3510C	Water	1,4-Dichlorobenzene
8270D	3510C	Water	2,2'-oxybis[1-chloropropane]
8270D	3510C	Water	2,4,5-Trichlorophenol
8270D	3510C	Water	2,4,6-Trichlorophenol
8270D	3510C	Water	2,4-Dichlorophenol
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2,4-Dinitrotoluene
8270D	3510C	Water	2,6-Dichlorophenol
8270D	3510C	Water	2,6-Dinitrotoluene
8270D	3510C	Water	2-Acetylaminofluorene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8270D	3510C	Water	2-Chloronaphthalene
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	2-Methylphenol
8270D	3510C	Water	3-Methylcholanthrene
8270D	3510C	Water	4,4'-Methylene bis(2-chloroaniline)
8270D	3510C	Water	4-Bromophenyl-phenylether
8270D	3510C	Water	4-Chloro-3-methylphenol
8270D	3510C	Water	4-Chloroaniline
8270D	3510C	Water	4-Methylphenol
8270D	3510C	Water	4-Nitroaniline
8270D	3510C	Water	4-Nitrophenol
8270D	3510C	Water	5-Nitro-o-toluidine
8270D	3510C	Water	Acetophenone
8270D	3510C	Water	Aniline
8270D	3510C	Water	Anthracene
8270D	3510C	Water	Benzo[a]anthracene
8270D	3510C	Water	Benzo[a]pyrene
8270D	3510C	Water	Bis(2-chloroethoxy)methane
8270D	3510C	Water	Bis(2-chloroethyl)ether
8270D	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D	3510C	Water	Butylbenzylphthalate
8270D	3510C	Water	Chrysene
8270D	3510C	Water	Dibenz(a,h)anthracene
8270D	3510C	Water	Diethyl phthalate
8270D	3510C	Water	Dimethyl phthalate
8270D	3510C	Water	Di-n-butyl phthalate
8270D	3510C	Water	Di-n-octyl phthalate
8270D	3510C	Water	Fluoranthene
8270D	3510C	Water	Hexachlorobenzene
8270D	3510C	Water	Hexachlorobutadiene
8270D	3510C	Water	Hexachlorocyclopentadiene
8270D	3510C	Water	Hexachloroethane
8270D	3510C	Water	Hexachloropropene
8270D	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D	3510C	Water	Isosafrole
8270D	3510C	Water	Methapyrilene
8270D	3510C	Water	Naphthalene
8270D	3510C	Water	Nitrobenzene
8270D	3510C	Water	N-Nitrosodiethylamine
8270D	3510C	Water	N-Nitrosodi-n-butylamine
8270D	3510C	Water	N-Nitrosodi-n-propylamine
8270D	3510C	Water	N-Nitrosopiperidine
8270D	3510C	Water	N-Nitrosopyrrolidine
8270D	3510C	Water	Pentachlorobenzene
8270D	3510C	Water	Pentachloronitrobenzene
8270D	3510C	Water	Pentachlorophenol
8270D	3510C	Water	Phenacetin
8270D	3510C	Water	Phenanthrene
8270D	3510C	Water	Phenol

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8270D	3510C	Water	Pronamide
8270D	3510C	Water	Pyrene
8270D	3510C	Water	Pyridine
8270D	3510C	Water	Safrole, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	2,2'-oxybis[1-chloropropane]
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dichlorophenol
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Acetylaminofluorene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	3-Methylcholanthrene
8270D	3546	Solid	4,4'-Methylene bis(2-chloroaniline)
8270D	3546	Solid	4-Bromophenyl-phenylether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Methylphenol
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	5-Nitro-o-toluidine
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butylbenzylphthalate
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Hexachloropropene
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isosafrole
8270D	3546	Solid	Methapyrilene
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodiethylamine
8270D	3546	Solid	N-Nitrosodi-n-butylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosopiperidine
8270D	3546	Solid	N-Nitrosopyrrolidine
8270D	3546	Solid	Pentachlorobenzene
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenacetin
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pronamide
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
8270D	3546	Solid	Safrole, Total
8318	8318_S_Prep	Solid	Carbaryl
8318	8318_S_Prep	Solid	Carbofuran
8318	8318_S_Prep	Solid	Methiocarb
8318	8318_S_Prep	Solid	Methomyl
8318	8318_S_Prep	Solid	Oxamyl
9012A		Solid	Cyanide, Amenable
9012A		Water	Cyanide, Amenable
9012A	9012A	Solid	Cyanide, Total
9012A	9012A	Water	Cyanide, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	ELLE
8081B	Organochlorine Pesticides (GC)	SW846	ELLE
8151A	Herbicides (GC)	SW846	ELLE
531.1	Carbamate Pesticides (HPLC)	EPA	ELLE
8318	Carbamate (HPLC)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
7471A	Mercury (CVAA)	SW846	ELLE
9012A	Cyanide, Amenable	SW846	ELLE
9012A	Cyanide, Total and/or Amenable	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
3050B	Preparation, Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE
531	Carbamates Pesticides (HPLC)	EPA	ELLE
7470A	Preparation, Mercury	SW846	ELLE
7471A	Preparation, Mercury	SW846	ELLE
8015 DAI	Prepartion, Direct Aqueous Injection	SW846	ELLE
8151A	Extraction (Herbicides)	SW846	ELLE
8318_S_Prep	Preparation, Carbamate (HPLC)	SW846	ELLE
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	ELLE
DI Leach	Deionized Water Leaching Procedure	ASTM	ELLE

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12366-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-12366-1	PAD-23-24-SUMPS-0-0.5	Solid	08/28/20 08:00	08/28/20 17:34	
410-12366-2	PAD-23-24-SUMPS-0-0.5DUP	Solid	08/28/20 08:00	08/28/20 17:34	
410-12366-3	PAD-23-SW-0-0.5	Solid	08/28/20 08:15	08/28/20 17:34	
410-12366-4	PAD-23-S-CTR-0-0.5	Solid	08/28/20 08:30	08/28/20 17:34	
410-12366-5	PAD-23-24-S-0-0.5	Solid	08/28/20 09:00	08/28/20 17:34	
410-12366-6	PAD-24-S-CTR-0-0.5	Solid	08/28/20 10:00	08/28/20 17:34	
410-12366-7	PAD-24-24-0-S-0-0.5	Solid	08/28/20 10:15	08/28/20 17:34	
410-12366-8	PAD-24-0-S-CTR-0-0.5	Solid	08/28/20 10:30	08/28/20 17:34	
410-12366-9	PAD-24-0-SE-0-0.5	Solid	08/28/20 10:45	08/28/20 17:34	
410-12366-10	PAD-TB2-082820	Water	08/28/20 00:00	08/28/20 17:34	
410-12366-11	PAD-EB2-082820	Water	08/28/20 11:15	08/28/20 17:34	

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Environmental Analysis Request/Chain of Custody

410-12366 Chain of Custody

Sample # ______

Client: Dupont Experimental Station		
Project Name: Experimental Station	Site ID #:	
Project Manager: Terrell Stanley	P.O.#:	
Sampler: Phil Chun Don Seldon	PWSID #:	
Phone #: 302 563 0917	Quote #:	
State where samples were collected: DE	For Compliance: Yes ☑	No ☐

Matrix: Soil ☒ / Sediment ☐ / Tissue ☐; Water: Potable ☐ / Ground ☐ / NPDES ☐ / Surface ☐; Other: Blank Water

Analyses Requested — Preservation and Filtration Codes: VOCs (8260C) H; SVOCs (8270D); Alcohols (8015B) H; Carbamates (531.1) O; Herbicides (8151A); Pesticides/PCBs (8081/8082); Metals (6020A/7470A) N; Total and Amenable CN (9012A) O

Sample Identification	Date	Time	Grab	Composite	Matrix	Total # of Containers	VOCs (8260C)	SVOCs (8270D)	Alcohols (8015B)	Carbamates (531.1)	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7470A)	Total and Amenable CN (9012A)		
PAD-23-24-Sumps-0-0.5	8/28/20	800	X		Soil	15	X	X	X	X	X	X	X	X		
PAD-23-24-Sumps-0-0.5 Dup	↓	800	X		↓	5	↓	↓	↓	↓	↓	↓	↓	↓		
PAD-23-SW-0-0.5	↓	815	X		↓	5	↓	↓	↓	↓	↓	↓	↓	↓		
PAD-23-S-Ctr-0-0.5	↓	830	X		↓	5	↓	↓	↓	↓	↓	↓	↓	↓		
PAD-23-24-S-0-0.5	↓	900	X		Soil	5	↓	↓	↓	↓	↓	↓	↓	↓		
PAD-24-S-Ctr-0-0.5	↓	1000	X		Soil	5	↓	↓	↓	↓	↓	↓	↓	↓		
PAD-24-24-0-S-0-0.5	↓	1015	X		Soil	5	↓	↓	↓	↓	↓	↓	↓	↓		
PAP-24-0-S-Ctr-0-0.5	↓	1030	X		Soil	5	↓	↓	↓	↓	↓	↓	↓	↓		
PAD-24-0-SE-0-0.5	8/28/20	1040	X		Soil	5	X	X	X	X	X	X	X	X		

For Lab Use Only

SF#:

SCR#: 262616

Preservation Codes:
H = HCl; T = Thiosulfate
N = HNO_3; B = NaOH
S = H_2SO_4; P = H_3PO_4
F = Field Filtered; O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category ☐ A or ☐ B	

EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

Relinquished by	Date	Time	Received by	Date	Time
[signature]	8/28/20	1200 noon			
			[signature]	8/28/20	1734

Relinquished by Commercial Carrier: UPS ______ FedEx ______ Other ______

Temperature upon receipt 6.7-1/2.1 °C

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7045 0717

KAM

Environmental Analysis Request/Chain of Custody

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Acct# 06643 Group # ____________ Sample # ____________

Client: Dupont Experimental Station

Project Name: Experimental Station — Site ID #:

Project Manager: Jeri'll Gamble — P.O.#

Sampler: Philip Chen Dan Sheldon — PWSID #:

Phone #: 302 563 0917 — Quote #:

State where samples were collected: DE — For Compliance: Yes ☑ No ☐

Matrix: Soil ☑ Sediment ☐ Tissue ☐ | Water: Potable ☐ NPDES ☐ Ground ☐ Surface ☐ | Other:

Analyses Requested — Preservation and Filtration Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil / Sediment / Tissue	Water	Other	Total # of Containers	VOCs (8260C)	SVOCs (8270D)	Alcohols (8015B)	Carbamates (8318)	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7471A)	Total and Amenable CN (9012A)			Remarks
PAD-TB2-082820	—	—	X			Water			X										
PAD-EB2-082820	8/28/20	1115	X			Water			X	X	X	X	X	X	X	X			

For Lab Use Only

SF#:

SCR#: 262616

Preservation Codes

H = HCl	T = Thiosulfate
N = HNO_3	B = NaOH
S = H_2SO_4	P = H_3PO_4
F = Field Filtered	O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category ☐ A or ☐ B	

EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/28/20	1200 Noon			
			[signature]	8-28-20	1734

Relinquished by Commercial Carrier: UPS ______ FedEx ______ Other ______

Temperature upon receipt 6.7-12.1 °C

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Environn[barcode]quest/Chain of Custody

410-12366 Chain of Custody

Sample # ______

Client: Dupont Experimental Station	
Project Name: Experimental Station	Site ID #:
Project Manager: Terrell Stanley	P.O.#
Sampler: Phil Chun Dan Seldon	PWSID #:
Phone #: 302 563 0917	Quote #:
State where samples were collected: DE	For Compliance: Yes ☑ No ☐

Matrix: Soil ☒ / Sediment ☐ / Tissue ☐; Water: Potable ☐ / Ground ☐ / NPDES ☐ / Surface ☐; Other: Blank Water

Analyses Requested — Preservation and Filtration Codes

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers	VOCs (8260C) (H)	SVOCs (8270D)	Alcohols (8015B) (H)	Carbamates (531.1) (O)	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7470A) (N)	Total and Amenable CN (9012A) (O)			Remarks
PAD-23-24-Sumps-0-0.5	8/28/20	800	X		Soil			15	X	X	X	X	X	X	X	X			
PAD-23-24-Sumps-0-0.5 Dup	↓	800	X		↓			5	↓	↓	↓	↓	↓	↓	↓	↓			
PAD-23-SW-0-0.5	↓	815	X		↓			5	↓	↓	↓	↓	↓	↓	↓	↓			
PAD-23-S-Ctr-0-0.5	↓	830	X		↓			5	↓	↓	↓	↓	↓	↓	↓	↓			
PAD-23-24-S-0-0.5	↓	900	X		Soil			5	↓	↓	↓	↓	↓	↓	↓	↓			
PAD-24-S-Ctr-0-0.5	↓	1000	X		Soil			5	↓	↓	↓	↓	↓	↓	↓	↓			
PAD-24-24-O-S-0-0.5	↓	1015	X		Soil			5	↓	↓	↓	↓	↓	↓	↓	↓			
PAD-24-O-S-Ctr-0-0.5	↓	1030	X		Soil			5	↓	↓	↓	↓	↓	↓	↓	↓			
PAD-24-O-SE-0-0.5	8/28/20	1045	X		Soil			5	X	X	X	X	X	X	X	X			

For Lab Use Only
SF#:
SCR#: 262616

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:
Rush results requested by (please check): E-Mail ☐ Phone ☐
E-mail Address:
Phone:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/28/20	1200 noon			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	8/28/20	1734

Relinquished by Commercial Carrier:
UPS ______ FedEx ______ Other ______

Temperature upon receipt 6.7-.2/ °C

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category ☐ A or ☐ B	

EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

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ES KAM

Environmental Analysis Request/Chain of Custody

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Acct# 06643 Group # ______ Sample # ______

Client: Dupont Experimental Station		Matrix	Analyses Requested	For Lab Use Only
Project Name: Experimental Station	Site ID #:		Preservation and Filtration Codes	SF#:
Project Manager: Jerr Gramble	P.O.#:			SCR#: 262616
Sampler: Phil Chen Dan Sheldon	PWSID #:			
Phone #: 302 563 0917	Quote #:			
State where samples were collected: DE	For Compliance: Yes ☑ No ☐			

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	☐ Soil ☑ Sediment ☐ Tissue	Water (☐ Potable ☐ NPDES ☐ Ground ☐ Surface)	Other:	Total # of Containers	VOCs (8260C)	SVOCs (8270D)	Alcohols (8015B)	Carbamates (8318)	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7471A)	Total and Amenable CN (9012A)			Remarks
PAD-TB2-082820	—	—	X			Water			X										
PAD-EB2-082820	8/28/20	11:15	X			Water			X	X	X	X	X	X	X	X			

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by: [signature]	8/28/20	1200 Noon	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by: [signature]	8-28-20	1734

Relinquished by Commercial Carrier: UPS ______ FedEx ______ Other ______

Temperature upon receipt 6.7-12.1 °C

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7045 0717

Login Sample Receipt Checklist

Client: DuPont Specialty Products USA LLC

Job Number: 410-12366-1

Login Number: 12366
List Number: 1
Creator: Sanchez, Melvin E

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-12176-1
Client Project/Site: Experimental Station
Revision: 2

For:
DuPont Specialty Products USA LLC
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom

Authorized for release by:
1/20/2021 4:11:19 PM

Duane Luckenbill, Department Manager I
(717)656-2300
Duane.Luckenbill@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Duane Luckenbill
Department Manager I
1/20/2021 4:11:19 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-12176-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-12176-1

Revision
The report being provided is a revision of the original report sent on 9/30/2020.

Report revision history
Revision 1 - 12/11/2020 - Reason - Remove non-amenable cyanide from report per client request.

Revision 2 - 01/20/2021 - Reason - Updated reporting limits per client request.

Receipt
The samples were received on 8/27/2020 6:22 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.0º C and 11.5º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-40069 recovered above the upper control limit for 1,1-Dichloroethene and Carbon disulfide. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-40779 recovered above the upper control limit for 1,1-Dichloroethene, 1,4-Dioxane, Carbon disulfide and Pentachloroethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-40779 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: The continuing calibration verification (CCV) analyzed in 410-41030 was outside the method criteria for the following analyte(s): 1,1-Dichloroethene, Freon 113, Carbon disulfide, Methyl iodide, and trans-1,2-Dichloroethene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: PAD-G-S-CTR-0-0.5 (410-12176-15). The sample(s) was re-analyzed and ISTD response was outside control limits.

Method 8260C: The continuing calibration verification (CCV) analyzed in 410-41260 was outside the method criteria for the following analyte(s): 1,1-Dichloroethene, 1,4-Dioxane, Carbon disulfide, cis-1,3-Dichloropropene, Methyl methacrylate, Pentachloroethane, and trans-1,2-Dichloroethene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: The continuing calibration verification (CCV) analyzed on 410-41260 is compliant under 8260C method criteria for Methyl iodide . The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift. PAD-B-S-CTR-0-0.5 (410-12176-5) and PAD-A-SE-0-0.5 (410-12176-6)

Method 8260C: The following samples were diluted due to the abundance of non-target analytes: PAD-A-S-CTR-0-0.5 (410-12176-8) and PAD-AB-S-0-0.5 (410-12176-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-39953 recovered above the upper control limit for Acetone. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: PAD-TB1-082720 (410-12176-10) and PAD-EB1-082720 (410-12176-18). The requested target analyte list includes Acrylonitrile, an acid-labile compound that degrades in an acidic medium.

Job ID: 410-12176-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to the nature of the sample matrix: PAD-G-E-NE-0-0.5 (410-12176-11), PAD-G-E-CTR-0-0.5 (410-12176-12), PAD-G-E-SE-0-0.5 (410-12176-13), PAD-G-S-SE-0-0.5 (410-12176-14), PAD-G-S-CTR-0-0.5 (410-12176-15) and PAD-G-S-SW-0-0.5DUP (410-12176-17). Elevated reporting limits (RLs) are provided.

Method 8270D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 410-40483 recovered outside control limits for the following analyte(s): 3-Methylcholanthrene. The stated control limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Method 8270D: The continuing calibration verification (CCV) associated with batch 410-43244 recovered above the upper control limit for Hexachloropropene and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D: The laboratory control sample (LCS) for preparation batch 410-40543 recovered outside control limits for Methapyrilene. The sample was re-extracted outside the method required holding time and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
Method 8015B: The continuing calibration verification (CCVRT) associated with batch 410-41600 recovered above the upper control limit for Acetone on the confirmation column. Acetone was outside the upper control limit in the sample. The samples associated with this CCV were non-detect. Associated sample is impacted: PAD-EB1-082720 (410-12176-18).

Method 8015B: The continuing calibration verification (CCV) associated with batch 410-41600 recovered above the upper control limit for Methanol on the confirmation column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: PAD-G-S-SW-0-0.5 (410-12176-16) and PAD-G-S-SW-0-0.5DUP (410-12176-17).

Method 8015B: The continuing calibration verification (CCVRT) not associated with batch 410-41600 recovered above the upper control limit for acetone. Sample surrogates all within limits and with bracketing CCV also within limits for acetone. Associated samples are non-detect for all compounds. The associated samples are impacted: PAD-B-NW-0-0.5 (410-12176-1), PAD-B-W-CTR-0-0.5 (410-12176-2), PAD-B-SUMP-1.5-2.0 (410-12176-3), PAD-B-SW-0-0.5 (410-12176-4), PAD-B-S-CTR-0-0.5 (410-12176-5), PAD-A-SE-0-0.5 (410-12176-6), PAD-A-SUMP-2-3 (410-12176-7), PAD-A-S-CTR-0-0.5 (410-12176-8), PAD-AB-S-0-0.5 (410-12176-9), PAD-G-E-NE-0-0.5 (410-12176-11), PAD-G-E-CTR-0-0.5 (410-12176-12), PAD-G-E-SE-0-0.5 (410-12176-13), PAD-G-S-SE-0-0.5 (410-12176-14), PAD-G-S-CTR-0-0.5 (410-12176-15), PAD-G-S-SW-0-0.5 (410-12176-16), PAD-G-S-SW-0-0.5 (410-12176-16[MS]), PAD-G-S-SW-0-0.5 (410-12176-16[MSD]) and PAD-G-S-SW-0-0.5DUP (410-12176-17).

Method 8015B: Methanol in CCVRT: The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 15 %). When applying the evaluation to whole number, the check passes the criteria with a value of 15.1 % Drift.

PAD-B-NW-0-0.5 (410-12176-1), PAD-B-W-CTR-0-0.5 (410-12176-2), PAD-B-SUMP-1.5-2.0 (410-12176-3), PAD-B-SW-0-0.5 (410-12176-4), PAD-B-S-CTR-0-0.5 (410-12176-5), PAD-A-SE-0-0.5 (410-12176-6), PAD-A-SUMP-2-3 (410-12176-7), PAD-A-S-CTR-0-0.5 (410-12176-8), PAD-AB-S-0-0.5 (410-12176-9), PAD-G-E-NE-0-0.5 (410-12176-11), PAD-G-E-CTR-0-0.5 (410-12176-12), PAD-G-E-SE-0-0.5 (410-12176-13), PAD-G-S-SE-0-0.5 (410-12176-14), PAD-G-S-CTR-0-0.5 (410-12176-15) and PAD-EB1-082720 (410-12176-18)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 410-12176-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

GC Semi VOA

Method 8081B: The following sample required a dilution due to the nature of the sample matrix: PAD-A-SE-0-0.5 (410-12176-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B: Surrogate recovery for the following samples were outside control limits: PAD-A-S-CTR-0-0.5 (410-12176-8) and PAD-AB-S-0-0.5 (410-12176-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The continuing calibration verification (CCV) associated with batch 410-40932 recovered above the upper control limit for p,p'-DDT and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: PAD-EB1-082720 (410-12176-18).

Method 8081B: The continuing calibration verification (CCV) associated with batch 410-40934 recovered above the upper control limit for Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: PAD-G-E-NE-0-0.5 (410-12176-11).

Method 8151A: The laboratory control sample (LCS) for preparation batch 410-39435 and analytical batch 410-41200 recovered outside control limits for the following analytes: Silvex (2,4,5-TP) and 2,4-D. The associated sample was non-detect for all target analytes. The sample was re-prepared and/or re-analyzed outside holding time. 2,4,5-TP recovered outside control limits biased low in the re-extracted LCS and the sample results were confirmed as non-detect for the target analytes.

Method 8151A: The laboratory control sample (LCS) for preparation batch 410-42789 and analytical batch 410-43820 recovered outside control limits for the following analytes: Silvex (2,4,5-TP) and 2,4-D. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. The first trial is reported.

Method 8151A: Surrogate recovery for the following samples were outside control limits: PAD-B-NW-0-0.5 (410-12176-1), PAD-B-W-CTR-0-0.5 (410-12176-2), PAD-B-SUMP-1.5-2.0 (410-12176-3), PAD-B-SW-0-0.5 (410-12176-4), PAD-A-SE-0-0.5 (410-12176-6) and PAD-A-S-CTR-0-0.5 (410-12176-8). Re-extraction and/or re-analysis was performed outside of the method holding time. The first trial is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 9012A: For sample PAD-G-S-SW-0-0.5DUP (410-12176-17), the amount used for the initial volume in the prep was entered as 2.01 gal. This was changed to the correct volume of 2.01g. This changed corrected the RL from .00015mg/kg to 0.58mg/kg.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-B-NW-0-0.5 — Lab Sample ID: 410-12176-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.3	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	21		18	7.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	22		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	24		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	41		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	15	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	23		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	37		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.5		0.69	0.23	mg/Kg	2	☼	6020A	Total/NA
Barium	44		0.69	0.32	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.19		0.17	0.087	mg/Kg	2	☼	6020A	Total/NA
Calcium	800		69	26	mg/Kg	2	☼	6020A	Total/NA
Chromium	15		0.69	0.27	mg/Kg	2	☼	6020A	Total/NA
Lead	8.3		0.35	0.087	mg/Kg	2	☼	6020A	Total/NA
Nickel	7.5		0.69	0.28	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.057	J	0.061	0.025	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-B-W-CTR-0-0.5 — Lab Sample ID: 410-12176-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J	19	5.8	ug/Kg	1	☼	8260C	Total/NA
Anthracene	22		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	100		19	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	130		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	27		19	7.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	200		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	96		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	35		19	7.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	79		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	160		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	140	J	190	77	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane (2C)	1.3		0.96	0.20	ug/Kg	1	☼	8081B	Total/NA
Endosulfan I (1C)	0.48	J p	0.96	0.26	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDD (1C)	2.1		2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (1C)	8.9		2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (2C)	1.1	J p	2.0	0.92	ug/Kg	1	☼	8081B	Total/NA
Arsenic	4.6		0.79	0.26	mg/Kg	2	☼	6020A	Total/NA
Barium	97		0.79	0.36	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.19	J	0.20	0.099	mg/Kg	2	☼	6020A	Total/NA
Calcium	1700		79	30	mg/Kg	2	☼	6020A	Total/NA
Chromium	20		0.79	0.30	mg/Kg	2	☼	6020A	Total/NA
Lead	37		0.39	0.099	mg/Kg	2	☼	6020A	Total/NA
Nickel	20		0.79	0.32	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.28	J	0.79	0.26	mg/Kg	2	☼	6020A	Total/NA

Client Sample ID: PAD-B-SUMP-1.5-2.0 — Lab Sample ID: 410-12176-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.68	J	5.5	0.55	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.0	J	5.5	0.55	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene	25	J	61	20	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-B-SUMP-1.5-2.0 (Continued) — Lab Sample ID: 410-12176-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dimethylphenol	90		81	36	ug/Kg	1	☼	8270D	Total/NA
2-Methylphenol	52	J	81	20	ug/Kg	1	☼	8270D	Total/NA
4-Methylphenol	140		61	20	ug/Kg	1	☼	8270D	Total/NA
Anthracene	3300		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4600		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	770		20	8.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2500		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	1200		20	8.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	6100		100	40	ug/Kg	5	☼	8270D	Total/NA
Chrysene - DL	5600		100	20	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	15000		100	20	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene - DL	16000		100	20	ug/Kg	5	☼	8270D	Total/NA
Pyrene - DL	11000		100	20	ug/Kg	5	☼	8270D	Total/NA
Endosulfan sulfate (1C)	0.56	J	2.0	0.40	ug/Kg	1	☼	8081B	Total/NA
gamma-BHC (Lindane) (2C)	0.40	J p	1.0	0.25	ug/Kg	1	☼	8081B	Total/NA
Heptachlor epoxide (1C)	6.9		1.0	0.20	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (1C)	5.7		2.0	0.40	ug/Kg	1	☼	8081B	Total/NA
Chlordane (n.o.s.) (2C)	190		20	4.8	ug/Kg	1	☼	8081B	Total/NA
alpha-Chlordane (1C) - DL	10	p	5.0	1.0	ug/Kg	5	☼	8081B	Total/NA
gamma-Chlordane (1C) - DL	27		5.0	1.5	ug/Kg	5	☼	8081B	Total/NA
Methiocarb	66	J	300	61	ug/Kg	20	☼	8318	Total/NA
Arsenic	7.6		0.85	0.28	mg/Kg	2	☼	6020A	Total/NA
Barium	220		0.85	0.39	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.53		0.21	0.11	mg/Kg	2	☼	6020A	Total/NA
Calcium	2900		85	32	mg/Kg	2	☼	6020A	Total/NA
Chromium	55		0.85	0.33	mg/Kg	2	☼	6020A	Total/NA
Lead	120		0.42	0.11	mg/Kg	2	☼	6020A	Total/NA
Nickel	30		0.85	0.35	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.30	J	0.85	0.28	mg/Kg	2	☼	6020A	Total/NA
Silver	0.20	J	0.21	0.086	mg/Kg	2	☼	6020A	Total/NA
Mercury	2.7		0.68	0.28	mg/Kg	10	☼	7471A	Total/NA

Client Sample ID: PAD-B-SW-0-0.5 — Lab Sample ID: 410-12176-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	23	J	60	20	ug/Kg	1	☼	8270D	Total/NA
Anthracene	64		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	210		20	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	230		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	46		20	8.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	390		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	42		20	8.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	240		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	340		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	160	J	200	80	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane (1C)	0.54	J p	1.0	0.20	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane (2C)	1.1		1.0	0.30	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDD (2C)	2.3		2.0	0.40	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (1C)	7.8		2.0	0.95	ug/Kg	1	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-B-SW-0-0.5 (Continued)

Lab Sample ID: 410-12176-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
p,p'-DDE (1C) - DL	20		10	2.0	ug/Kg	5	☼	8081B	Total/NA
Arsenic	5.5		0.76	0.26	mg/Kg	2	☼	6020A	Total/NA
Barium	130		0.76	0.35	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.1		0.19	0.096	mg/Kg	2	☼	6020A	Total/NA
Calcium	2000		76	29	mg/Kg	2	☼	6020A	Total/NA
Chromium	43		0.76	0.29	mg/Kg	2	☼	6020A	Total/NA
Lead	72		0.38	0.096	mg/Kg	2	☼	6020A	Total/NA
Nickel	22		0.76	0.31	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.40	J	0.76	0.25	mg/Kg	2	☼	6020A	Total/NA
Silver	0.38		0.19	0.077	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.34		0.069	0.029	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-B-S-CTR-0-0.5

Lab Sample ID: 410-12176-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	15	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	60		19	7.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	61		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	69		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	120		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	42		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	37		19	7.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	60		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		19	3.8	ug/Kg	1	☼	8270D	Total/NA
p,p'-DDD (2C)	0.43	J	1.9	0.38	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (2C)	12		1.9	0.38	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (1C)	5.6		1.9	0.90	ug/Kg	1	☼	8081B	Total/NA
Arsenic	5.9		0.64	0.21	mg/Kg	2	☼	6020A	Total/NA
Barium	170		0.64	0.29	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.25		0.16	0.081	mg/Kg	2	☼	6020A	Total/NA
Calcium	1200		64	24	mg/Kg	2	☼	6020A	Total/NA
Chromium	52		0.64	0.25	mg/Kg	2	☼	6020A	Total/NA
Lead	140		0.32	0.081	mg/Kg	2	☼	6020A	Total/NA
Nickel	24		0.64	0.26	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.51	J	0.64	0.21	mg/Kg	2	☼	6020A	Total/NA
Silver	0.34		0.16	0.065	mg/Kg	2	☼	6020A	Total/NA
Mercury	1.1		0.17	0.071	mg/Kg	2.5	☼	7471A	Total/NA

Client Sample ID: PAD-A-SE-0-0.5

Lab Sample ID: 410-12176-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	88		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	280		19	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	250		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	290		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	54		19	7.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	590		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	45		19	7.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	340		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		19	3.9	ug/Kg	1	☼	8270D	Total/NA
p,p'-DDE (2C)	240		40	7.7	ug/Kg	20	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-A-SE-0-0.5 (Continued) — Lab Sample ID: 410-12176-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
p,p'-DDT (1C)	63		40	18	ug/Kg	20	☼	8081B	Total/NA
Arsenic	5.5		0.77	0.26	mg/Kg	2	☼	6020A	Total/NA
Barium	110		0.77	0.35	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.2		0.19	0.098	mg/Kg	2	☼	6020A	Total/NA
Calcium	1500		77	29	mg/Kg	2	☼	6020A	Total/NA
Chromium	58		0.77	0.30	mg/Kg	2	☼	6020A	Total/NA
Lead	110		0.39	0.098	mg/Kg	2	☼	6020A	Total/NA
Nickel	27		0.77	0.32	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.49	J	0.77	0.25	mg/Kg	2	☼	6020A	Total/NA
Silver	0.87		0.19	0.079	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.70		0.068	0.028	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-A-SUMP-2-3 — Lab Sample ID: 410-12176-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	8.3	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	14	J	20	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	12	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	16	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	31		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	8.4	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	12	J	20	8.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	33		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	28		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	86	J	200	80	ug/Kg	1	☼	8270D	Total/NA
p,p'-DDE (2C)	8.7		2.1	0.40	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (1C)	2.4		2.1	0.96	ug/Kg	1	☼	8081B	Total/NA
Arsenic	5.2		0.88	0.29	mg/Kg	2	☼	6020A	Total/NA
Barium	110		0.88	0.40	mg/Kg	2	☼	6020A	Total/NA
Calcium	2200		88	33	mg/Kg	2	☼	6020A	Total/NA
Chromium	94		0.88	0.34	mg/Kg	2	☼	6020A	Total/NA
Lead	44		0.44	0.11	mg/Kg	2	☼	6020A	Total/NA
Nickel	35		0.88	0.36	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.30	J	0.88	0.29	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.14		0.069	0.029	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-A-S-CTR-0-0.5 — Lab Sample ID: 410-12176-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	43	J	300	30	ug/Kg	50	☼	8260C	Total/NA
Anthracene	96		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	190		18	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	310		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	40		18	7.4	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	670		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	27		18	7.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	310		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	510		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Endosulfan II (2C)	1.2	J p	2.5	1.2	ug/Kg	1	☼	8081B	Total/NA
gamma-BHC (Lindane) (2C)	0.37	J	0.92	0.23	ug/Kg	1	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-A-S-CTR-0-0.5 (Continued) — Lab Sample ID: 410-12176-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
gamma-Chlordane (2C)	0.53	J p	0.92	0.28	ug/Kg	1	☼	8081B	Total/NA
Heptachlor epoxide (2C)	0.24	J p	0.92	0.19	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor (2C)	12	B	7.4	2.0	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDD (1C)	0.40	J p	1.9	0.36	ug/Kg	1	☼	8081B	Total/NA
alpha-Chlordane (2C) - DL	3.2	J	4.6	0.94	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDE (2C) - DL	42		9.4	1.8	ug/Kg	5	☼	8081B	Total/NA
p,p'-DDT (1C) - DL	25		9.4	4.4	ug/Kg	5	☼	8081B	Total/NA
Arsenic	7.2		0.82	0.27	mg/Kg	2	☼	6020A	Total/NA
Barium	180		0.82	0.37	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.2		0.20	0.10	mg/Kg	2	☼	6020A	Total/NA
Calcium	1800		82	31	mg/Kg	2	☼	6020A	Total/NA
Chromium	63		0.82	0.31	mg/Kg	2	☼	6020A	Total/NA
Lead	150		0.41	0.10	mg/Kg	2	☼	6020A	Total/NA
Nickel	39		0.82	0.33	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.41	J	0.82	0.27	mg/Kg	2	☼	6020A	Total/NA
Silver	0.79		0.20	0.083	mg/Kg	2	☼	6020A	Total/NA
Mercury	1.2		0.33	0.14	mg/Kg	5	☼	7471A	Total/NA

Client Sample ID: PAD-AB-S-0-0.5 — Lab Sample ID: 410-12176-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	31	J	300	30	ug/Kg	50	☼	8260C	Total/NA
Anthracene	37		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		20	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	28		20	8.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	230		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	74		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	27		20	8.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	190		20	4.0	ug/Kg	1	☼	8270D	Total/NA
gamma-Chlordane (1C)	1.5		1.0	0.30	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor (2C)	2.9	J B	8.1	2.2	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (1C)	15		2.0	0.95	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (2C) - DL	45		10	2.0	ug/Kg	5	☼	8081B	Total/NA
Arsenic	9.5		0.90	0.30	mg/Kg	2	☼	6020A	Total/NA
Barium	190		0.90	0.41	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.4		0.22	0.11	mg/Kg	2	☼	6020A	Total/NA
Calcium	1500		90	34	mg/Kg	2	☼	6020A	Total/NA
Chromium	81		0.90	0.35	mg/Kg	2	☼	6020A	Total/NA
Lead	86		0.45	0.11	mg/Kg	2	☼	6020A	Total/NA
Nickel	28		0.90	0.37	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.47	J	0.90	0.29	mg/Kg	2	☼	6020A	Total/NA
Silver	0.91		0.22	0.091	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.81		0.069	0.029	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-TB1-082720 — Lab Sample ID: 410-12176-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	20	0.70	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-G-E-NE-0-0.5 — Lab Sample ID: 410-12176-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	38	J	87	35	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	48	J	87	17	ug/Kg	5	☼	8270D	Total/NA
Chrysene	50	J	87	17	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	85	J	87	17	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	55	J	87	17	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	35	J	87	17	ug/Kg	5	☼	8270D	Total/NA
Pyrene	70	J	87	17	ug/Kg	5	☼	8270D	Total/NA
alpha-Chlordane (1C)	0.79	J p	0.88	0.18	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane (2C)	1.3		0.88	0.26	ug/Kg	1	☼	8081B	Total/NA
Heptachlor epoxide (2C)	0.25	J	0.88	0.18	ug/Kg	1	☼	8081B	Total/NA
Chlordane (n.o.s.) (2C)	8.8	J	18	4.2	ug/Kg	1	☼	8081B	Total/NA
Arsenic	1.5		0.78	0.26	mg/Kg	2	☼	6020A	Total/NA
Barium	79		0.78	0.36	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.43		0.20	0.098	mg/Kg	2	☼	6020A	Total/NA
Calcium	6600		78	29	mg/Kg	2	☼	6020A	Total/NA
Chromium	41		0.78	0.30	mg/Kg	2	☼	6020A	Total/NA
Lead	9.5		0.39	0.098	mg/Kg	2	☼	6020A	Total/NA
Nickel	52		0.78	0.32	mg/Kg	2	☼	6020A	Total/NA
Silver	0.41		0.20	0.079	mg/Kg	2	☼	6020A	Total/NA

Client Sample ID: PAD-G-E-CTR-0-0.5 — Lab Sample ID: 410-12176-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	20	6.1	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	110	J	180	73	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	160	J	180	36	ug/Kg	10	☼	8270D	Total/NA
Chrysene	210		180	36	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	330		180	36	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	160	J	180	36	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	220		180	36	ug/Kg	10	☼	8270D	Total/NA
Pyrene	270		180	36	ug/Kg	10	☼	8270D	Total/NA
alpha-Chlordane (2C)	1.8	J	4.5	0.93	ug/Kg	5	☼	8081B	Total/NA
gamma-Chlordane (1C)	1.5	J	4.5	1.4	ug/Kg	5	☼	8081B	Total/NA
Arsenic	3.0		0.75	0.25	mg/Kg	2	☼	6020A	Total/NA
Barium	96		0.75	0.34	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.43		0.19	0.095	mg/Kg	2	☼	6020A	Total/NA
Calcium	8100		75	28	mg/Kg	2	☼	6020A	Total/NA
Chromium	45		0.75	0.29	mg/Kg	2	☼	6020A	Total/NA
Lead	20		0.38	0.095	mg/Kg	2	☼	6020A	Total/NA
Nickel	63		0.75	0.31	mg/Kg	2	☼	6020A	Total/NA
Silver	1.2		0.19	0.076	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.033	J	0.064	0.027	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-G-E-SE-0-0.5 — Lab Sample ID: 410-12176-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	210		24	7.1	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	140	J	200	79	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	240		200	40	ug/Kg	10	☼	8270D	Total/NA
Chrysene	300		200	40	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	360		200	40	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	240		200	40	ug/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-G-E-SE-0-0.5 (Continued) — Lab Sample ID: 410-12176-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	170	J	200	40	ug/Kg	10	☼	8270D	Total/NA
Pyrene	330		200	40	ug/Kg	10	☼	8270D	Total/NA
alpha-Chlordane (2C)	1.2		0.99	0.20	ug/Kg	1	☼	8081B	Total/NA
gamma-BHC (Lindane) (1C)	0.39	J p	0.99	0.25	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane (1C)	1.3		0.99	0.30	ug/Kg	1	☼	8081B	Total/NA
Heptachlor (1C)	0.49	J p	0.99	0.37	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (2C)	0.77	J p	2.0	0.39	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDT (2C)	1.0	J p	2.0	0.94	ug/Kg	1	☼	8081B	Total/NA
Arsenic	3.3		0.92	0.31	mg/Kg	2	☼	6020A	Total/NA
Barium	65		0.92	0.42	mg/Kg	2	☼	6020A	Total/NA
Cadmium	1.4		0.23	0.12	mg/Kg	2	☼	6020A	Total/NA
Calcium	14000		230	86	mg/Kg	5	☼	6020A	Total/NA
Chromium	41		0.92	0.35	mg/Kg	2	☼	6020A	Total/NA
Lead	22		0.46	0.12	mg/Kg	2	☼	6020A	Total/NA
Nickel	54		0.92	0.37	mg/Kg	2	☼	6020A	Total/NA
Silver	1.9		0.23	0.093	mg/Kg	2	☼	6020A	Total/NA
Cyanide, Amenable	0.53	J	0.60	0.21	mg/Kg	1	☼	9012A	Total/NA
Cyanide, Total	0.53	J	0.58	0.21	mg/Kg	1	☼	9012A	Total/NA

Client Sample ID: PAD-G-S-SE-0-0.5 — Lab Sample ID: 410-12176-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	110	J	180	74	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	190		180	37	ug/Kg	10	☼	8270D	Total/NA
Chrysene	230		180	37	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	290		180	37	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	210		180	37	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	160	J	180	37	ug/Kg	10	☼	8270D	Total/NA
Pyrene	270		180	37	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.8		0.62	0.21	mg/Kg	2	☼	6020A	Total/NA
Barium	120		0.62	0.28	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.97		0.15	0.078	mg/Kg	2	☼	6020A	Total/NA
Calcium	19000		310	120	mg/Kg	10	☼	6020A	Total/NA
Chromium	70		0.62	0.24	mg/Kg	2	☼	6020A	Total/NA
Lead	31		0.31	0.078	mg/Kg	2	☼	6020A	Total/NA
Nickel	84		0.62	0.25	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.29	J	0.62	0.20	mg/Kg	2	☼	6020A	Total/NA
Silver	9.4		0.15	0.063	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.034	J	0.063	0.026	mg/Kg	1	☼	7471A	Total/NA
Cyanide, Amenable	0.61		0.56	0.20	mg/Kg	1	☼	9012A	Total/NA
Cyanide, Total	0.61		0.55	0.20	mg/Kg	1	☼	9012A	Total/NA

Client Sample ID: PAD-G-S-CTR-0-0.5 — Lab Sample ID: 410-12176-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	160		28	8.5	ug/Kg	1	☼	8260C	Total/NA
Acetophenone	190	J	580	190	ug/Kg	10	☼	8270D	Total/NA
Anthracene	77	J	190	38	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	190		190	77	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	260		190	38	ug/Kg	10	☼	8270D	Total/NA
Chrysene	350		190	38	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	510		190	38	ug/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-G-S-CTR-0-0.5 (Continued) — Lab Sample ID: 410-12176-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	270		190	38	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	180	J	190	77	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	320		190	38	ug/Kg	10	☼	8270D	Total/NA
Pyrene	450		190	38	ug/Kg	10	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	870	J	1900	770	ug/Kg	10	☼	8270D	Total/NA
Arsenic	4.7		0.91	0.30	mg/Kg	2	☼	6020A	Total/NA
Barium	180		0.91	0.41	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.76		0.23	0.11	mg/Kg	2	☼	6020A	Total/NA
Calcium	20000		230	85	mg/Kg	5	☼	6020A	Total/NA
Chromium	79		0.91	0.35	mg/Kg	2	☼	6020A	Total/NA
Lead	33		0.45	0.11	mg/Kg	2	☼	6020A	Total/NA
Nickel	77		0.91	0.37	mg/Kg	2	☼	6020A	Total/NA
Silver	13		0.23	0.092	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.035	J	0.068	0.028	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-G-S-SW-0-0.5 — Lab Sample ID: 410-12176-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone	1.3	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Acetone	140	F2 F1	20	6.0	ug/Kg	1	☼	8260C	Total/NA
Anthracene	7.0	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	28	F1	20	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	28		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	31		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	9.3	J	20	7.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	44		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	25		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	41		20	3.9	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane (2C)	3.4	F1	0.97	0.20	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane (1C)	3.8	F1	0.97	0.29	ug/Kg	1	☼	8081B	Total/NA
Heptachlor epoxide (1C)	0.96	J F1	0.97	0.20	ug/Kg	1	☼	8081B	Total/NA
Chlordane (n.o.s.) (1C)	25		20	4.7	ug/Kg	1	☼	8081B	Total/NA
Arsenic	4.8	F1	0.72	0.24	mg/Kg	2	☼	6020A	Total/NA
Barium	67		0.72	0.33	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.66		0.18	0.091	mg/Kg	2	☼	6020A	Total/NA
Calcium	11000		180	68	mg/Kg	5	☼	6020A	Total/NA
Chromium	52		1.8	0.70	mg/Kg	5	☼	6020A	Total/NA
Lead	16	F2	0.36	0.091	mg/Kg	2	☼	6020A	Total/NA
Nickel	20	F1	1.8	0.74	mg/Kg	5	☼	6020A	Total/NA
Selenium	0.28	J	0.72	0.24	mg/Kg	2	☼	6020A	Total/NA
Silver	0.49		0.18	0.073	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.076		0.066	0.027	mg/Kg	1	☼	7471A	Total/NA
Cyanide, Amenable	0.44	J	0.59	0.21	mg/Kg	1	☼	9012A	Total/NA
Cyanide, Total	0.44	J F1	0.58	0.21	mg/Kg	1	☼	9012A	Total/NA

Client Sample ID: PAD-G-S-SW-0-0.5DUP — Lab Sample ID: 410-12176-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	46		18	5.4	ug/Kg	1	☼	8260C	Total/NA
Anthracene	27	J	96	19	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	64	J	96	38	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PAD-G-S-SW-0-0.5DUP (Continued) — Lab Sample ID: 410-12176-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	82	J	96	19	ug/Kg	5	☼	8270D	Total/NA
Chrysene	81	J	96	19	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	110		96	19	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	89	J	96	19	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	59	J	96	19	ug/Kg	5	☼	8270D	Total/NA
Pyrene	97		96	19	ug/Kg	5	☼	8270D	Total/NA
Endosulfan I (1C)	0.59	J p	0.97	0.26	ug/Kg	1	☼	8081B	Total/NA
Heptachlor epoxide (1C)	1.7		0.97	0.20	ug/Kg	1	☼	8081B	Total/NA
p,p'-DDE (1C)	0.71	J	2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
Chlordane (n.o.s.) (1C)	62		20	4.7	ug/Kg	1	☼	8081B	Total/NA
alpha-Chlordane (2C) - DL	9.6		4.8	0.99	ug/Kg	5	☼	8081B	Total/NA
gamma-Chlordane (1C) - DL	10		4.8	1.5	ug/Kg	5	☼	8081B	Total/NA
Arsenic	6.6		0.65	0.22	mg/Kg	2	☼	6020A	Total/NA
Barium	92		0.65	0.30	mg/Kg	2	☼	6020A	Total/NA
Cadmium	0.63		0.16	0.082	mg/Kg	2	☼	6020A	Total/NA
Calcium	9400		160	61	mg/Kg	5	☼	6020A	Total/NA
Chromium	39		0.65	0.25	mg/Kg	2	☼	6020A	Total/NA
Lead	26		0.32	0.082	mg/Kg	2	☼	6020A	Total/NA
Nickel	18		0.65	0.26	mg/Kg	2	☼	6020A	Total/NA
Selenium	0.24	J	0.65	0.21	mg/Kg	2	☼	6020A	Total/NA
Silver	0.24		0.16	0.066	mg/Kg	2	☼	6020A	Total/NA
Mercury	0.075		0.065	0.027	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: PAD-EB1-082720 — Lab Sample ID: 410-12176-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.33	J B	2.0	0.33	ug/L	1		6020A	Total/NA
Calcium	180		100	74	ug/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-B-NW-0-0.5

Date Collected: 08/27/20 11:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-1

Matrix: Solid
Percent Solids: 91.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,1,1-Trichloroethane	ND		4.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,1,2-Trichloroethane	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,1-Dichloroethane	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,1-Dichloroethene	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,2,4-Trichlorobenzene	ND		9.8	4.9	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,2-Dibromo-3-Chloropropane	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,2-Dibromoethane	ND		4.9	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,2-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,2-Dichloropropane	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
1,4-Dioxane	ND		240	36	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
2-Butanone	ND		9.8	2.0	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
4-Methyl-2-pentanone	ND		9.8	0.98	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Acetone	ND		20	5.9	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Acrylonitrile	ND		20	0.78	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Benzene	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Bromoform	ND		9.8	4.9	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Bromomethane	ND		4.9	0.68	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Carbon disulfide	ND		4.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Carbon tetrachloride	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Chlorobenzene	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Chloroethane	ND		4.9	0.98	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Chloroform	ND		4.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Chloromethane	ND		4.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
cis-1,3-Dichloropropene	ND		4.9	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Dibromomethane	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Dichlorodifluoromethane	ND		4.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Ethyl acetate	ND		4.9	0.98	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Ethyl ether	ND		4.9	0.98	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Ethyl methacrylate	ND		4.9	0.98	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Ethylbenzene	ND		4.9	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Freon 113	ND		9.8	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Methacrylonitrile	ND		49	7.8	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Methyl iodide	ND		4.9	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Methyl methacrylate	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Methylene Chloride	ND		4.9	2.0	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Pentachloroethane	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Tetrachloroethene	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Toluene	ND		4.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
trans-1,2-Dichloroethene	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
trans-1,3-Dichloropropene	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Trichloroethene	ND		4.9	0.49	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Trichlorofluoromethane	ND		4.9	0.68	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Vinyl chloride	ND		4.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1
Xylenes, Total	ND		9.8	1.4	ug/Kg	☼	08/28/20 08:18	09/02/20 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*08/28/20 08:18*	*09/02/20 16:33*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/28/20 08:18*	*09/02/20 16:33*	*1*

Client Sample ID: PAD-B-NW-0-0.5
Date Collected: 08/27/20 11:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-1
Matrix: Solid
Percent Solids: 91.1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/28/20 08:18*	*09/02/20 16:33*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/28/20 08:18*	*09/02/20 16:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		40	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
1,2,4-Trichlorobenzene	ND		55	25	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
1,2-Dichlorobenzene	ND		55	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
1,3-Dichlorobenzene	ND		40	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
1,4-Dichlorobenzene	ND		40	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,2'-oxybis[1-chloropropane]	ND		47	22	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,4,5-Trichlorophenol	ND		73	33	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,4,6-Trichlorophenol	ND		62	29	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,4-Dichlorophenol	ND		47	22	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,4-Dimethylphenol	ND		73	33	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,4-Dinitrophenol	ND		1100	360	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,4-Dinitrotoluene	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,6-Dichlorophenol	ND		55	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2,6-Dinitrotoluene	ND		55	25	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2-Acetylaminofluorene	ND		360	110	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2-Chloronaphthalene	ND		36	7.3	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2-Chlorophenol	ND		40	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
2-Methylphenol	ND		73	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
3-Methylcholanthrene	ND	*	62	29	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
4,4'-Methylene bis(2-chloroaniline)	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
4-Bromophenyl-phenylether	ND		55	25	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
4-Chloro-3-methylphenol	ND		55	25	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
4-Chloroaniline	ND		180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
4-Methylphenol	ND		55	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
4-Nitroaniline	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
4-Nitrophenol	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
5-Nitro-o-toluidine	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Acetophenone	ND		55	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Aniline	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Anthracene	**6.3**	**J**	18	3.6	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Benzo[a]anthracene	**21**		18	7.3	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Benzo[a]pyrene	**22**		18	3.6	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Butylbenzylphthalate	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Chrysene	**24**		18	3.6	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Di-n-butyl phthalate	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Di-n-octyl phthalate	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Dibenz(a,h)anthracene	ND		18	7.3	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Diethyl phthalate	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Dimethyl phthalate	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Fluoranthene	**41**		18	3.6	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Hexachlorobenzene	ND		18	7.3	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Hexachlorobutadiene	ND		84	40	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Hexachlorocyclopentadiene	ND		550	220	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Hexachloroethane	ND		180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1

Client Sample ID: PAD-B-NW-0-0.5

Date Collected: 08/27/20 11:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-1

Matrix: Solid
Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	ND		360	110	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Indeno[1,2,3-cd]pyrene	**15**	**J**	18	3.6	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Isosafrole	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Methapyrilene	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
N-Nitrosodi-n-propylamine	ND		55	25	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
N-Nitrosodi-n-butylamine	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
N-Nitrosodiethylamine	ND		47	22	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
N-Nitrosopiperidine	ND		40	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
N-Nitrosopyrrolidine	ND		55	25	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Naphthalene	ND		18	7.3	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Nitrobenzene	ND		73	29	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Pentachlorobenzene	ND		47	22	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Pentachloronitrobenzene	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Phenacetin	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Pentachlorophenol	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Phenanthrene	**23**		18	3.6	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Phenol	ND		40	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Pronamide	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Pyrene	**37**		18	3.6	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Pyridine	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Safrole, Total	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Bis(2-chloroethoxy)methane	ND		40	18	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Bis(2-chloroethyl)ether	ND		55	25	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1
Bis(2-ethylhexyl) phthalate	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 136*	*09/03/20 09:00*	*09/05/20 11:31*	*1*
2-Fluorobiphenyl (Surr)	*82*		*34 - 117*	*09/03/20 09:00*	*09/05/20 11:31*	*1*
2-Fluorophenol (Surr)	*73*		*18 - 115*	*09/03/20 09:00*	*09/05/20 11:31*	*1*
Nitrobenzene-d5 (Surr)	*71*		*23 - 115*	*09/03/20 09:00*	*09/05/20 11:31*	*1*
p-Terphenyl-d14 (Surr)	*87*		*35 - 135*	*09/03/20 09:00*	*09/05/20 11:31*	*1*
Phenol-d5 (Surr)	*76*		*21 - 112*	*09/03/20 09:00*	*09/05/20 11:31*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1100	220	ug/Kg	☼		09/08/20 17:46	1
Isobutanol (1C)	ND		1100	190	ug/Kg	☼		09/08/20 17:46	1
Methanol (2C)	ND		1100	220	ug/Kg	☼		09/08/20 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*124*		*10 - 179*		*09/08/20 17:46*	*1*
Acetone (2C)	*89*		*10 - 179*		*09/08/20 17:46*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.90	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
alpha-Chlordane (1C)	ND		0.90	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
beta-BHC (1C)	ND		1.1	0.48	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
delta-BHC (1C)	ND		1.1	0.49	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
Endosulfan I (1C)	ND		0.90	0.24	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1

Client Sample ID: PAD-B-NW-0-0.5

Date Collected: 08/27/20 11:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-1

Matrix: Solid
Percent Solids: 91.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II (1C)	ND		2.5	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
Endosulfan sulfate (1C)	ND		1.9	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
Endrin (1C)	ND		1.9	0.74	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
gamma-BHC (Lindane) (1C)	ND		0.90	0.23	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
gamma-Chlordane (1C)	ND		0.90	0.27	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
Heptachlor (1C)	ND		0.90	0.34	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
Heptachlor epoxide (1C)	ND		0.90	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
Methoxychlor (1C)	ND		7.3	2.0	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
Toxaphene (1C)	ND		36	15	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
p,p'-DDD (2C)	ND		1.9	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
p,p'-DDE (1C)	ND		1.9	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
p,p'-DDT (1C)	ND		1.9	0.86	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1
Chlordane (n.o.s.) (1C)	ND		19	4.4	ug/Kg	☼	09/02/20 16:39	09/04/20 06:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*110*		*46 - 152*	*09/02/20 16:39*	*09/04/20 06:38*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*104*		*46 - 152*	*09/02/20 16:39*	*09/04/20 06:38*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*84*		*19 - 136*	*09/02/20 16:39*	*09/04/20 06:38*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*68*		*19 - 136*	*09/02/20 16:39*	*09/04/20 06:38*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	1.8	0.81	ug/Kg	☼	09/10/20 19:40	09/14/20 21:04	1
2,4-D (1C)	ND	*	39	13	ug/Kg	☼	09/10/20 19:40	09/14/20 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*13*	*X*	*27 - 136*	*09/10/20 19:40*	*09/14/20 21:04*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*13*	*X*	*27 - 136*	*09/10/20 19:40*	*09/14/20 21:04*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/09/20 16:29	20
Carbofuran	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/09/20 16:29	20
Methiocarb	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/09/20 16:29	20
Methomyl	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/09/20 16:29	20
Oxamyl	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/09/20 16:29	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*77*		*27 - 131*	*09/03/20 23:16*	*09/09/20 16:29*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.5**		0.69	0.23	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2
Barium	**44**		0.69	0.32	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2
Cadmium	**0.19**		0.17	0.087	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2
Calcium	**800**		69	26	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2
Chromium	**15**		0.69	0.27	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2
Lead	**8.3**		0.35	0.087	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2
Nickel	**7.5**		0.69	0.28	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2

Client Sample ID: PAD-B-NW-0-0.5

Date Collected: 08/27/20 11:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-1

Matrix: Solid
Percent Solids: 91.1

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.69	0.23	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2
Silver	ND		0.17	0.070	mg/Kg	☼	08/31/20 08:21	09/15/20 18:01	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**	**J**	0.061	0.025	mg/Kg	☼	08/31/20 09:31	09/01/20 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.55	0.20	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.54	0.19	mg/Kg	☼	09/01/20 06:05	09/01/20 11:05	1
Percent Moisture	**8.9**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**91.1**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-B-W-CTR-0-0.5

Date Collected: 08/27/20 11:25
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-2

Matrix: Solid
Percent Solids: 85.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,1,1-Trichloroethane	ND		4.8	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,1,2-Trichloroethane	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,1-Dichloroethane	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,1-Dichloroethene	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,2,4-Trichlorobenzene	ND		9.6	4.8	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,2-Dibromo-3-Chloropropane	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,2-Dibromoethane	ND		4.8	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,2-Dichloroethane	ND		4.8	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,2-Dichloropropane	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
1,4-Dioxane	ND		240	36	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
2-Butanone	ND		9.6	1.9	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
4-Methyl-2-pentanone	ND		9.6	0.96	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Acetone	**10**	**J**	19	5.8	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Acrylonitrile	ND		19	0.77	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Benzene	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Bromoform	ND		9.6	4.8	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Bromomethane	ND		4.8	0.67	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Carbon disulfide	ND		4.8	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Carbon tetrachloride	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Chlorobenzene	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Chloroethane	ND		4.8	0.96	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Chloroform	ND		4.8	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Chloromethane	ND		4.8	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
cis-1,3-Dichloropropene	ND		4.8	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Dibromomethane	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Dichlorodifluoromethane	ND		4.8	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Ethyl acetate	ND		4.8	0.96	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Ethyl ether	ND		4.8	0.96	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-B-W-CTR-0-0.5

Date Collected: 08/27/20 11:25
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-2

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		4.8	0.96	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Ethylbenzene	ND		4.8	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Freon 113	ND		9.6	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Methacrylonitrile	ND		48	7.7	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Methyl iodide	ND		4.8	0.39	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Methyl methacrylate	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Methylene Chloride	ND		4.8	1.9	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Pentachloroethane	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Tetrachloroethene	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Toluene	ND		4.8	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
trans-1,2-Dichloroethene	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
trans-1,3-Dichloropropene	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Trichloroethene	ND		4.8	0.48	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Trichlorofluoromethane	ND		4.8	0.67	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Vinyl chloride	ND		4.8	0.58	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1
Xylenes, Total	ND		9.6	1.3	ug/Kg	☼	08/28/20 08:18	09/02/20 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/28/20 08:18*	*09/02/20 16:56*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*08/28/20 08:18*	*09/02/20 16:56*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/28/20 08:18*	*09/02/20 16:56*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/28/20 08:18*	*09/02/20 16:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
1,2,4-Trichlorobenzene	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
1,2-Dichlorobenzene	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
1,3-Dichlorobenzene	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
1,4-Dichlorobenzene	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,2'-oxybis[1-chloropropane]	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,4,5-Trichlorophenol	ND		77	35	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,4,6-Trichlorophenol	ND		66	31	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,4-Dichlorophenol	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,4-Dimethylphenol	ND		77	35	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,4-Dinitrophenol	ND		1200	390	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,4-Dinitrotoluene	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,6-Dichlorophenol	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2,6-Dinitrotoluene	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2-Acetylaminofluorene	ND		390	120	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2-Chloronaphthalene	ND		39	7.7	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2-Chlorophenol	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
2-Methylphenol	ND		77	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
3-Methylcholanthrene	ND	*	66	31	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
4,4'-Methylene bis(2-chloroaniline)	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
4-Bromophenyl-phenylether	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
4-Chloro-3-methylphenol	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
4-Chloroaniline	ND		190	39	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
4-Methylphenol	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
4-Nitroaniline	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1

Client Sample ID: PAD-B-W-CTR-0-0.5
Date Collected: 08/27/20 11:25
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-2
Matrix: Solid
Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
5-Nitro-o-toluidine	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Acetophenone	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Aniline	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Anthracene	**22**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Benzo[a]anthracene	**100**		19	7.7	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Benzo[a]pyrene	**120**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Butylbenzylphthalate	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Chrysene	**130**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Di-n-butyl phthalate	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Di-n-octyl phthalate	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Dibenz(a,h)anthracene	**27**		19	7.7	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Diethyl phthalate	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Dimethyl phthalate	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Fluoranthene	**200**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Hexachlorobenzene	ND		19	7.7	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Hexachlorobutadiene	ND		89	42	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Hexachlorocyclopentadiene	ND		580	230	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Hexachloroethane	ND		190	39	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Hexachloropropene	ND		390	120	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Indeno[1,2,3-cd]pyrene	**96**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Isosafrole	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Methapyrilene	ND		5800	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
N-Nitrosodi-n-propylamine	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
N-Nitrosodi-n-butylamine	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
N-Nitrosodiethylamine	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
N-Nitrosopiperidine	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
N-Nitrosopyrrolidine	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Naphthalene	**35**		19	7.7	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Nitrobenzene	ND		77	31	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Pentachlorobenzene	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Pentachloronitrobenzene	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Phenacetin	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Pentachlorophenol	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Phenanthrene	**79**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Phenol	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Pronamide	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Pyrene	**160**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Pyridine	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Safrole, Total	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Bis(2-chloroethoxy)methane	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Bis(2-chloroethyl)ether	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1
Bis(2-ethylhexyl) phthalate	**140**	**J**	190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*10 - 136*	*09/03/20 09:00*	*09/05/20 12:06*	*1*
2-Fluorobiphenyl (Surr)	*74*		*34 - 117*	*09/03/20 09:00*	*09/05/20 12:06*	*1*
2-Fluorophenol (Surr)	*67*		*18 - 115*	*09/03/20 09:00*	*09/05/20 12:06*	*1*
Nitrobenzene-d5 (Surr)	*66*		*23 - 115*	*09/03/20 09:00*	*09/05/20 12:06*	*1*
p-Terphenyl-d14 (Surr)	*76*		*35 - 135*	*09/03/20 09:00*	*09/05/20 12:06*	*1*

Client Sample ID: PAD-B-W-CTR-0-0.5

Date Collected: 08/27/20 11:25
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-2

Matrix: Solid
Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*71*		*21 - 112*	*09/03/20 09:00*	*09/05/20 12:06*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	230	ug/Kg	☼		09/08/20 18:03	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/08/20 18:03	1
Methanol (2C)	ND		1200	230	ug/Kg	☼		09/08/20 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetone (1C)	*124*		*10 - 179*		*09/08/20 18:03*	*1*
Acetone (2C)	*91*		*10 - 179*		*09/08/20 18:03*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.96	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
alpha-Chlordane (2C)	**1.3**		0.96	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
beta-BHC (1C)	ND		1.2	0.51	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
delta-BHC (1C)	ND		1.2	0.52	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Endosulfan I (1C)	**0.48**	**J p**	0.96	0.26	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Endosulfan II (1C)	ND		2.7	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Endosulfan sulfate (1C)	ND		2.0	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Endrin (1C)	ND		2.0	0.79	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
gamma-BHC (Lindane) (1C)	ND		0.96	0.24	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
gamma-Chlordane (1C)	ND	p	1.4	1.4	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Heptachlor (2C)	ND		0.96	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Heptachlor epoxide (1C)	ND		0.96	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Methoxychlor (1C)	ND		7.8	2.1	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Toxaphene (1C)	ND		38	16	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
p,p'-DDD (1C)	**2.1**		2.0	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
p,p'-DDE (1C)	**8.9**		2.0	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
p,p'-DDT (2C)	**1.1**	**J p**	2.0	0.92	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1
Chlordane (n.o.s.) (1C)	ND		20	4.6	ug/Kg	☼	09/02/20 16:39	09/04/20 06:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	*107*		*46 - 152*	*09/02/20 16:39*	*09/04/20 06:49*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*102*		*46 - 152*	*09/02/20 16:39*	*09/04/20 06:49*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*100*		*19 - 136*	*09/02/20 16:39*	*09/04/20 06:49*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*73*		*19 - 136*	*09/02/20 16:39*	*09/04/20 06:49*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	2.0	0.86	ug/Kg	☼	09/10/20 19:40	09/14/20 21:37	1
2,4-D (1C)	ND	*	41	14	ug/Kg	☼	09/10/20 19:40	09/14/20 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	*11*	*X*	*27 - 136*	*09/10/20 19:40*	*09/14/20 21:37*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*10*	*X*	*27 - 136*	*09/10/20 19:40*	*09/14/20 21:37*	*1*

Client Sample ID: PAD-B-W-CTR-0-0.5

Date Collected: 08/27/20 11:25
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-2

Matrix: Solid
Percent Solids: 85.9

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/09/20 17:19	20
Carbofuran	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/09/20 17:19	20
Methiocarb	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/09/20 17:19	20
Methomyl	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/09/20 17:19	20
Oxamyl	ND		290	58	ug/Kg	☼	09/03/20 23:16	09/09/20 17:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*80*		*27 - 131*	*09/03/20 23:16*	*09/09/20 17:19*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.6**		0.79	0.26	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2
Barium	**97**		0.79	0.36	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2
Cadmium	**0.19**	**J**	0.20	0.099	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2
Calcium	**1700**		79	30	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2
Chromium	**20**		0.79	0.30	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2
Lead	**37**		0.39	0.099	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2
Nickel	**20**		0.79	0.32	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2
Selenium	**0.28**	**J**	0.79	0.26	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2
Silver	ND		0.20	0.080	mg/Kg	☼	08/31/20 08:21	09/15/20 18:03	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.068	0.028	mg/Kg	☼	08/31/20 09:31	09/01/20 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.58	0.21	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.58	0.21	mg/Kg	☼	09/01/20 06:05	09/01/20 11:09	1
Percent Moisture	**14.1**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**85.9**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-B-SUMP-1.5-2.0

Date Collected: 08/27/20 11:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-3

Matrix: Solid
Percent Solids: 81.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,1,1-Trichloroethane	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,1,2,2-Tetrachloroethane	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,1,2-Trichloroethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,1-Dichloroethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,1-Dichloroethene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,2,4-Trichlorobenzene	ND		11	5.5	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,2-Dibromo-3-Chloropropane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,2-Dichloropropane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
1,4-Dioxane	ND		270	41	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1

Client Sample ID: PAD-B-SUMP-1.5-2.0
Date Collected: 08/27/20 11:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-3
Matrix: Solid
Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		11	2.2	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
4-Methyl-2-pentanone	ND		11	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Acetone	ND		22	6.6	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Acrylonitrile	ND		22	0.88	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Bromoform	ND		11	5.5	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Bromomethane	ND		5.5	0.77	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Carbon disulfide	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Carbon tetrachloride	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Chlorobenzene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Chloroethane	ND		5.5	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Chloroform	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Chloromethane	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
cis-1,3-Dichloropropene	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Dibromomethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Dichlorodifluoromethane	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Ethyl acetate	ND		5.5	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Ethyl ether	ND		5.5	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Ethyl methacrylate	ND		5.5	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Freon 113	ND		11	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Methacrylonitrile	ND		55	8.8	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Methyl iodide	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Methyl methacrylate	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Methylene Chloride	ND		5.5	2.2	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Pentachloroethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Tetrachloroethene	**0.68**	**J**	5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Toluene	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
trans-1,2-Dichloroethene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
trans-1,3-Dichloropropene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Trichloroethene	**1.0**	**J**	5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Trichlorofluoromethane	ND		5.5	0.77	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Vinyl chloride	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/28/20 08:18	09/02/20 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/28/20 08:18*	*09/02/20 17:18*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/28/20 08:18*	*09/02/20 17:18*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/28/20 08:18*	*09/02/20 17:18*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/28/20 08:18*	*09/02/20 17:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
1,2,4-Trichlorobenzene	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
1,2-Dichlorobenzene	**25**	**J**	61	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
1,3-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
1,4-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2,2'-oxybis[1-chloropropane]	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2,4,5-Trichlorophenol	ND		81	36	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1

Client Sample ID: PAD-B-SUMP-1.5-2.0
Date Collected: 08/27/20 11:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-3
Matrix: Solid
Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		69	32	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2,4-Dichlorophenol	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2,4-Dimethylphenol	**90**		81	36	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2,4-Dinitrophenol	ND		1200	400	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2,4-Dinitrotoluene	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2,6-Dichlorophenol	ND		61	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2,6-Dinitrotoluene	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2-Acetylaminofluorene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2-Chloronaphthalene	ND		40	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2-Chlorophenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
2-Methylphenol	**52**	**J**	81	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
3-Methylcholanthrene	ND	*	69	32	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
4,4'-Methylene bis(2-chloroaniline)	ND		610	200	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
4-Bromophenyl-phenylether	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
4-Chloro-3-methylphenol	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
4-Chloroaniline	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
4-Methylphenol	**140**		61	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
4-Nitroaniline	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
4-Nitrophenol	ND		610	200	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
5-Nitro-o-toluidine	ND		610	200	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Acetophenone	ND		61	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Aniline	ND		610	200	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Anthracene	**3300**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Benzo[a]pyrene	**4600**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Butylbenzylphthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Di-n-butyl phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Di-n-octyl phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Dibenz(a,h)anthracene	**770**		20	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Diethyl phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Dimethyl phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Hexachlorobenzene	ND		20	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Hexachlorobutadiene	ND		93	44	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Hexachlorocyclopentadiene	ND		610	240	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Hexachloroethane	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Hexachloropropene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Indeno[1,2,3-cd]pyrene	**2500**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Isosafrole	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Methapyrilene	ND		6100	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
N-Nitrosodi-n-propylamine	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
N-Nitrosodi-n-butylamine	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
N-Nitrosodiethylamine	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
N-Nitrosopiperidine	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
N-Nitrosopyrrolidine	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Naphthalene	**1200**		20	8.1	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Nitrobenzene	ND		81	32	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Pentachlorobenzene	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Pentachloronitrobenzene	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Phenacetin	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Pentachlorophenol	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1

Client Sample ID: PAD-B-SUMP-1.5-2.0

Date Collected: 08/27/20 11:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-3

Matrix: Solid
Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Pronamide	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Pyridine	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Safrole, Total	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Bis(2-chloroethoxy)methane	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Bis(2-chloroethyl)ether	ND		61	28	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1
Bis(2-ethylhexyl) phthalate	ND		200	81	ug/Kg	☼	09/03/20 09:00	09/05/20 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 136*	*09/03/20 09:00*	*09/05/20 12:29*	*1*
2-Fluorobiphenyl (Surr)	*76*		*34 - 117*	*09/03/20 09:00*	*09/05/20 12:29*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 115*	*09/03/20 09:00*	*09/05/20 12:29*	*1*
Nitrobenzene-d5 (Surr)	*70*		*23 - 115*	*09/03/20 09:00*	*09/05/20 12:29*	*1*
p-Terphenyl-d14 (Surr)	*77*		*35 - 135*	*09/03/20 09:00*	*09/05/20 12:29*	*1*
Phenol-d5 (Surr)	*75*		*21 - 112*	*09/03/20 09:00*	*09/05/20 12:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**6100**		100	40	ug/Kg	☼	09/03/20 09:00	09/06/20 15:28	5
Chrysene	**5600**		100	20	ug/Kg	☼	09/03/20 09:00	09/06/20 15:28	5
Fluoranthene	**15000**		100	20	ug/Kg	☼	09/03/20 09:00	09/06/20 15:28	5
Phenanthrene	**16000**		100	20	ug/Kg	☼	09/03/20 09:00	09/06/20 15:28	5
Pyrene	**11000**		100	20	ug/Kg	☼	09/03/20 09:00	09/06/20 15:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 136*	*09/03/20 09:00*	*09/06/20 15:28*	*5*
2-Fluorobiphenyl (Surr)	*82*		*34 - 117*	*09/03/20 09:00*	*09/06/20 15:28*	*5*
2-Fluorophenol (Surr)	*74*		*18 - 115*	*09/03/20 09:00*	*09/06/20 15:28*	*5*
Nitrobenzene-d5 (Surr)	*73*		*23 - 115*	*09/03/20 09:00*	*09/06/20 15:28*	*5*
p-Terphenyl-d14 (Surr)	*83*		*35 - 135*	*09/03/20 09:00*	*09/06/20 15:28*	*5*
Phenol-d5 (Surr)	*79*		*21 - 112*	*09/03/20 09:00*	*09/06/20 15:28*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	240	ug/Kg	☼		09/08/20 18:19	1
Isobutanol (1C)	ND		1200	210	ug/Kg	☼		09/08/20 18:19	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/08/20 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*117*		*10 - 179*		*09/08/20 18:19*	*1*
Acetone (2C)	*92*		*10 - 179*		*09/08/20 18:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		1.0	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
beta-BHC (2C)	ND		1.2	0.53	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
delta-BHC (1C)	ND		1.2	0.54	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Endosulfan I (1C)	ND	p	0.38	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Endosulfan II (2C)	ND		2.8	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Endosulfan sulfate (1C)	**0.56**	**J**	2.0	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Endrin (2C)	ND		2.0	0.82	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1

Client Sample ID: PAD-B-SUMP-1.5-2.0
Date Collected: 08/27/20 11:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-3
Matrix: Solid
Percent Solids: 81.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane) (2C)	**0.40**	**J p**	1.0	0.25	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Heptachlor (1C)	ND		1.0	0.37	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Heptachlor epoxide (1C)	**6.9**		1.0	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Methoxychlor (1C)	ND		8.0	2.2	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Toxaphene (1C)	ND		40	17	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
p,p'-DDD (1C)	ND		2.0	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
p,p'-DDE (1C)	**5.7**		2.0	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
p,p'-DDT (2C)	ND		2.0	0.95	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1
Chlordane (n.o.s.) (2C)	**190**		20	4.8	ug/Kg	☼	09/02/20 16:39	09/04/20 06:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*111*		*46 - 152*	*09/02/20 16:39*	*09/04/20 06:59*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*108*		*46 - 152*	*09/02/20 16:39*	*09/04/20 06:59*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*78*		*19 - 136*	*09/02/20 16:39*	*09/04/20 06:59*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*56*		*19 - 136*	*09/02/20 16:39*	*09/04/20 06:59*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane (1C)	**10**	**p**	5.0	1.0	ug/Kg	☼	09/02/20 16:39	09/04/20 07:10	5
gamma-Chlordane (1C)	**27**		5.0	1.5	ug/Kg	☼	09/02/20 16:39	09/04/20 07:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*124*		*46 - 152*	*09/02/20 16:39*	*09/04/20 07:10*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*122*		*46 - 152*	*09/02/20 16:39*	*09/04/20 07:10*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*99*		*19 - 136*	*09/02/20 16:39*	*09/04/20 07:10*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*71*		*19 - 136*	*09/02/20 16:39*	*09/04/20 07:10*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	2.1	0.90	ug/Kg	☼	09/10/20 19:40	09/14/20 22:10	1
2,4-D (1C)	ND	*	43	14	ug/Kg	☼	09/10/20 19:40	09/14/20 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*22*	*X*	*27 - 136*	*09/10/20 19:40*	*09/14/20 22:10*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*20*	*X*	*27 - 136*	*09/10/20 19:40*	*09/14/20 22:10*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/09/20 18:08	20
Carbofuran	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/09/20 18:08	20
Methiocarb	**66**	**J**	300	61	ug/Kg	☼	09/03/20 23:16	09/09/20 18:08	20
Methomyl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/09/20 18:08	20
Oxamyl	ND		300	61	ug/Kg	☼	09/03/20 23:16	09/09/20 18:08	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*79*		*27 - 131*	*09/03/20 23:16*	*09/09/20 18:08*	*20*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*85*		*27 - 131*	*09/03/20 23:16*	*09/11/20 05:20*	*20*

Client Sample ID: PAD-B-SUMP-1.5-2.0

Lab Sample ID: 410-12176-3

Date Collected: 08/27/20 11:30
Date Received: 08/27/20 18:22

Matrix: Solid
Percent Solids: 81.9

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		0.85	0.28	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2
Barium	220		0.85	0.39	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2
Cadmium	0.53		0.21	0.11	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2
Calcium	2900		85	32	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2
Chromium	55		0.85	0.33	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2
Lead	120		0.42	0.11	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2
Nickel	30		0.85	0.35	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2
Selenium	0.30	J	0.85	0.28	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2
Silver	0.20	J	0.21	0.086	mg/Kg	☼	08/31/20 08:21	09/15/20 17:59	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.7		0.68	0.28	mg/Kg	☼	08/31/20 09:31	09/01/20 15:13	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.61	0.22	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.60	0.21	mg/Kg	☼	09/01/20 06:05	09/01/20 11:10	1
Percent Moisture	18.1		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	81.9		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-B-SW-0-0.5

Lab Sample ID: 410-12176-4

Date Collected: 08/27/20 11:45
Date Received: 08/27/20 18:22

Matrix: Solid
Percent Solids: 82.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,1,1-Trichloroethane	ND		5.2	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.42	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,1,2-Trichloroethane	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,1-Dichloroethane	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,1-Dichloroethene	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,2,4-Trichlorobenzene	ND		10	5.2	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,2-Dibromo-3-Chloropropane	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,2-Dibromoethane	ND		5.2	0.42	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,2-Dichloroethane	ND		5.2	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,2-Dichloropropane	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
1,4-Dioxane	ND		260	39	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
2-Butanone	ND		10	2.1	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
4-Methyl-2-pentanone	ND		10	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Acetone	ND		21	6.3	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Acrylonitrile	ND		21	0.84	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Benzene	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Bromoform	ND		10	5.2	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Bromomethane	ND		5.2	0.73	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Carbon disulfide	ND		5.2	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Carbon tetrachloride	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Chlorobenzene	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Chloroethane	ND		5.2	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1

Client Sample ID: PAD-B-SW-0-0.5
Date Collected: 08/27/20 11:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-4
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		5.2	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Chloromethane	ND		5.2	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
cis-1,3-Dichloropropene	ND		5.2	0.42	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Dibromomethane	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Dichlorodifluoromethane	ND		5.2	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Ethyl acetate	ND		5.2	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Ethyl ether	ND		5.2	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Ethyl methacrylate	ND		5.2	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Ethylbenzene	ND		5.2	0.42	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Freon 113	ND		10	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Methacrylonitrile	ND		52	8.4	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Methyl iodide	ND		5.2	0.42	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Methyl methacrylate	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Methylene Chloride	ND		5.2	2.1	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Pentachloroethane	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Tetrachloroethene	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Toluene	ND		5.2	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
trans-1,2-Dichloroethene	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
trans-1,3-Dichloropropene	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Trichloroethene	ND		5.2	0.52	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Trichlorofluoromethane	ND		5.2	0.73	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Vinyl chloride	ND		5.2	0.63	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1
Xylenes, Total	ND		10	1.5	ug/Kg	☼	08/28/20 08:18	09/02/20 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/28/20 08:18*	*09/02/20 18:47*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/28/20 08:18*	*09/02/20 18:47*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/28/20 08:18*	*09/02/20 18:47*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/28/20 08:18*	*09/02/20 18:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
1,2,4-Trichlorobenzene	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
1,2-Dichlorobenzene	**23**	**J**	60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
1,3-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
1,4-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,2'-oxybis[1-chloropropane]	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,4,5-Trichlorophenol	ND		80	36	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,4,6-Trichlorophenol	ND		68	32	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,4-Dichlorophenol	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,4-Dimethylphenol	ND		80	36	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,4-Dinitrophenol	ND		1200	400	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,4-Dinitrotoluene	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,6-Dichlorophenol	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2,6-Dinitrotoluene	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2-Acetylaminofluorene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2-Chloronaphthalene	ND		40	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2-Chlorophenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
2-Methylphenol	ND		80	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-B-SW-0-0.5

Date Collected: 08/27/20 11:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-4

Matrix: Solid
Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylcholanthrene	ND	*	68	32	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
4,4'-Methylene bis(2-chloroaniline)	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
4-Bromophenyl-phenylether	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
4-Chloro-3-methylphenol	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
4-Chloroaniline	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
4-Methylphenol	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
4-Nitroaniline	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
4-Nitrophenol	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
5-Nitro-o-toluidine	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Acetophenone	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Aniline	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Anthracene	**64**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Benzo[a]anthracene	**210**		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Benzo[a]pyrene	**200**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Butylbenzylphthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Chrysene	**230**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Di-n-butyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Di-n-octyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Dibenz(a,h)anthracene	**46**		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Diethyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Dimethyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Fluoranthene	**390**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Hexachlorobenzene	ND		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Hexachlorobutadiene	ND		92	44	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Hexachlorocyclopentadiene	ND		600	240	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Hexachloroethane	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Hexachloropropene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Indeno[1,2,3-cd]pyrene	**150**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Isosafrole	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Methapyrilene	ND		6000	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
N-Nitrosodi-n-propylamine	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
N-Nitrosodi-n-butylamine	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
N-Nitrosodiethylamine	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
N-Nitrosopiperidine	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
N-Nitrosopyrrolidine	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Naphthalene	**42**		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Nitrobenzene	ND		80	32	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Pentachlorobenzene	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Pentachloronitrobenzene	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Phenacetin	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Pentachlorophenol	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Phenanthrene	**240**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Phenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Pronamide	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Pyrene	**340**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Pyridine	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Safrole, Total	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Bis(2-chloroethoxy)methane	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1
Bis(2-chloroethyl)ether	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1

Client Sample ID: PAD-B-SW-0-0.5

Date Collected: 08/27/20 11:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-4

Matrix: Solid
Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**160**	**J**	200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 136*	*09/03/20 09:00*	*09/05/20 13:16*	*1*
2-Fluorobiphenyl (Surr)	*71*		*34 - 117*	*09/03/20 09:00*	*09/05/20 13:16*	*1*
2-Fluorophenol (Surr)	*63*		*18 - 115*	*09/03/20 09:00*	*09/05/20 13:16*	*1*
Nitrobenzene-d5 (Surr)	*68*		*23 - 115*	*09/03/20 09:00*	*09/05/20 13:16*	*1*
p-Terphenyl-d14 (Surr)	*72*		*35 - 135*	*09/03/20 09:00*	*09/05/20 13:16*	*1*
Phenol-d5 (Surr)	*70*		*21 - 112*	*09/03/20 09:00*	*09/05/20 13:16*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	240	ug/Kg	☼		09/08/20 18:35	1
Isobutanol (1C)	ND		1200	210	ug/Kg	☼		09/08/20 18:35	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/08/20 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*125*		*10 - 179*		*09/08/20 18:35*	*1*
Acetone (2C)	*95*		*10 - 179*		*09/08/20 18:35*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (2C)	ND		1.0	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
alpha-Chlordane (1C)	**0.54**	**J p**	1.0	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
beta-BHC (2C)	ND		1.2	0.53	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
delta-BHC (1C)	ND		1.2	0.54	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Endosulfan I (1C)	ND		1.0	0.27	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Endosulfan II (1C)	ND		2.8	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Endosulfan sulfate (1C)	ND		2.0	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Endrin (1C)	ND		2.0	0.82	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
gamma-BHC (Lindane) (1C)	ND		1.0	0.25	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
gamma-Chlordane (2C)	**1.1**		1.0	0.30	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Heptachlor (1C)	ND		1.0	0.37	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Heptachlor epoxide (1C)	ND		1.0	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Methoxychlor (1C)	ND		8.1	2.2	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Toxaphene (1C)	ND		40	17	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
p,p'-DDD (2C)	**2.3**		2.0	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
p,p'-DDT (1C)	**7.8**		2.0	0.95	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1
Chlordane (n.o.s.) (1C)	ND		20	4.8	ug/Kg	☼	09/02/20 16:39	09/04/20 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*111*		*46 - 152*	*09/02/20 16:39*	*09/04/20 07:21*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*104*		*46 - 152*	*09/02/20 16:39*	*09/04/20 07:21*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*88*		*19 - 136*	*09/02/20 16:39*	*09/04/20 07:21*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*62*		*19 - 136*	*09/02/20 16:39*	*09/04/20 07:21*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p,p'-DDE (1C)	**20**		10	2.0	ug/Kg	☼	09/02/20 16:39	09/04/20 07:31	5

Client Sample ID: PAD-B-SW-0-0.5

Date Collected: 08/27/20 11:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-4

Matrix: Solid
Percent Solids: 82.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	118		46 - 152	09/02/20 16:39	09/04/20 07:31	5
DCB Decachlorobiphenyl (Surr) (2C)	111		46 - 152	09/02/20 16:39	09/04/20 07:31	5
Tetrachloro-m-xylene (Surr) (1C)	90		19 - 136	09/02/20 16:39	09/04/20 07:31	5
Tetrachloro-m-xylene (Surr) (2C)	73		19 - 136	09/02/20 16:39	09/04/20 07:31	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	2.0	0.90	ug/Kg	☼	09/10/20 19:40	09/14/20 22:43	1
2,4-D (1C)	ND	*	43	14	ug/Kg	☼	09/10/20 19:40	09/14/20 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	17	X	27 - 136	09/10/20 19:40	09/14/20 22:43	1
2,4-Dichlorophenylacetic acid (Surr) (2C)	16	X	27 - 136	09/10/20 19:40	09/14/20 22:43	1

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 18:57	20
Carbofuran	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 18:57	20
Methiocarb	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 18:57	20
Methomyl	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 18:57	20
Oxamyl	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 18:57	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	76		27 - 131	09/03/20 23:16	09/09/20 18:57	20

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.5**		0.76	0.26	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2
Barium	**130**		0.76	0.35	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2
Cadmium	**1.1**		0.19	0.096	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2
Calcium	**2000**		76	29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2
Chromium	**43**		0.76	0.29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2
Lead	**72**		0.38	0.096	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2
Nickel	**22**		0.76	0.31	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2
Selenium	**0.40**	**J**	0.76	0.25	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2
Silver	**0.38**		0.19	0.077	mg/Kg	☼	08/31/20 08:21	09/15/20 17:44	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**		0.069	0.029	mg/Kg	☼	08/31/20 09:31	09/01/20 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.61	0.22	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.59	0.21	mg/Kg	☼	09/01/20 06:05	09/01/20 11:12	1
Percent Moisture	**17.4**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**82.6**		1.0	1.0	%			08/29/20 13:00	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-B-S-CTR-0-0.5

Date Collected: 08/27/20 13:15
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-5

Matrix: Solid
Percent Solids: 86.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,1,1-Trichloroethane	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,1,2,2-Tetrachloroethane	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,1,2-Trichloroethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,1-Dichloroethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,1-Dichloroethene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,2,4-Trichlorobenzene	ND		11	5.5	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,2-Dibromo-3-Chloropropane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,2-Dichloropropane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
1,4-Dioxane	ND		280	41	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
2-Butanone	ND		11	2.2	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
4-Methyl-2-pentanone	ND		11	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Acetone	ND		22	6.6	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Acrylonitrile	ND		22	0.89	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Bromoform	ND		11	5.5	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Bromomethane	ND		5.5	0.77	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Carbon disulfide	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Carbon tetrachloride	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Chlorobenzene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Chloroethane	ND		5.5	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Chloroform	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Chloromethane	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
cis-1,3-Dichloropropene	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Dibromomethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Dichlorodifluoromethane	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Ethyl acetate	ND		5.5	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Ethyl ether	ND		5.5	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Ethyl methacrylate	ND		5.5	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Freon 113	ND		11	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Methacrylonitrile	ND		55	8.9	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Methyl iodide	ND		5.5	0.44	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Methyl methacrylate	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Methylene Chloride	ND		5.5	2.2	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Pentachloroethane	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Tetrachloroethene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Toluene	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
trans-1,2-Dichloroethene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
trans-1,3-Dichloropropene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Trichloroethene	ND		5.5	0.55	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Trichlorofluoromethane	ND		5.5	0.77	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Vinyl chloride	ND		5.5	0.66	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/28/20 08:18	09/05/20 07:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*08/28/20 08:18*	*09/05/20 07:53*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/28/20 08:18*	*09/05/20 07:53*	*1*

Client Sample ID: PAD-B-S-CTR-0-0.5

Date Collected: 08/27/20 13:15
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-5

Matrix: Solid
Percent Solids: 86.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/28/20 08:18*	*09/05/20 07:53*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/28/20 08:18*	*09/05/20 07:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
1,2,4-Trichlorobenzene	ND		57	27	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
1,2-Dichlorobenzene	ND		57	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
1,3-Dichlorobenzene	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
1,4-Dichlorobenzene	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,2'-oxybis[1-chloropropane]	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,4,5-Trichlorophenol	ND		76	34	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,4,6-Trichlorophenol	ND		65	31	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,4-Dichlorophenol	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,4-Dimethylphenol	ND		76	34	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,4-Dinitrophenol	ND		1100	380	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,4-Dinitrotoluene	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,6-Dichlorophenol	ND		57	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2,6-Dinitrotoluene	ND		57	27	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2-Acetylaminofluorene	ND		380	110	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2-Chloronaphthalene	ND		38	7.6	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2-Chlorophenol	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
2-Methylphenol	ND		76	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
3-Methylcholanthrene	ND	*	65	31	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
4,4'-Methylene bis(2-chloroaniline)	ND		570	190	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
4-Bromophenyl-phenylether	ND		57	27	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
4-Chloro-3-methylphenol	ND		57	27	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
4-Chloroaniline	ND		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
4-Methylphenol	ND		57	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
4-Nitroaniline	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
4-Nitrophenol	ND		570	190	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
5-Nitro-o-toluidine	ND		570	190	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Acetophenone	ND		57	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Aniline	ND		570	190	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Anthracene	**15**	**J**	19	3.8	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Benzo[a]anthracene	**60**		19	7.6	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Benzo[a]pyrene	**61**		19	3.8	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Butylbenzylphthalate	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Chrysene	**69**		19	3.8	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Di-n-butyl phthalate	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Di-n-octyl phthalate	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Dibenz(a,h)anthracene	ND		19	7.6	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Diethyl phthalate	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Dimethyl phthalate	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Fluoranthene	**120**		19	3.8	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Hexachlorobenzene	ND		19	7.6	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Hexachlorobutadiene	ND		88	42	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Hexachlorocyclopentadiene	ND		570	230	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Hexachloroethane	ND		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1

Client Sample ID: PAD-B-S-CTR-0-0.5
Date Collected: 08/27/20 13:15
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-5
Matrix: Solid
Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	ND		380	110	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Indeno[1,2,3-cd]pyrene	**42**		19	3.8	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Isosafrole	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Methapyrilene	ND		5700	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
N-Nitrosodi-n-propylamine	ND		57	27	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
N-Nitrosodi-n-butylamine	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
N-Nitrosodiethylamine	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
N-Nitrosopiperidine	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
N-Nitrosopyrrolidine	ND		57	27	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Naphthalene	**37**		19	7.6	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Nitrobenzene	ND		76	31	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Pentachlorobenzene	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Pentachloronitrobenzene	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Phenacetin	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Pentachlorophenol	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Phenanthrene	**60**		19	3.8	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Phenol	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Pronamide	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Pyrene	**120**		19	3.8	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Pyridine	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Safrole, Total	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Bis(2-chloroethoxy)methane	ND		42	19	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Bis(2-chloroethyl)ether	ND		57	27	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1
Bis(2-ethylhexyl) phthalate	ND		190	76	ug/Kg	☼	09/03/20 09:00	09/05/20 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 136*	*09/03/20 09:00*	*09/05/20 13:39*	*1*
2-Fluorobiphenyl (Surr)	*71*		*34 - 117*	*09/03/20 09:00*	*09/05/20 13:39*	*1*
2-Fluorophenol (Surr)	*58*		*18 - 115*	*09/03/20 09:00*	*09/05/20 13:39*	*1*
Nitrobenzene-d5 (Surr)	*66*		*23 - 115*	*09/03/20 09:00*	*09/05/20 13:39*	*1*
p-Terphenyl-d14 (Surr)	*71*		*35 - 135*	*09/03/20 09:00*	*09/05/20 13:39*	*1*
Phenol-d5 (Surr)	*67*		*21 - 112*	*09/03/20 09:00*	*09/05/20 13:39*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	230	ug/Kg	☼		09/08/20 18:52	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/08/20 18:52	1
Methanol (2C)	ND		1200	230	ug/Kg	☼		09/08/20 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*129*		*10 - 179*		*09/08/20 18:52*	*1*
Acetone (2C)	*99*		*10 - 179*		*09/08/20 18:52*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (2C)	ND		0.94	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
alpha-Chlordane (2C)	ND		0.94	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
beta-BHC (1C)	ND		1.1	0.50	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
delta-BHC (1C)	ND		1.1	0.51	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
Endosulfan I (1C)	ND		0.94	0.25	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1

Client Sample ID: PAD-B-S-CTR-0-0.5

Date Collected: 08/27/20 13:15
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-5

Matrix: Solid
Percent Solids: 86.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II (1C)	ND		2.6	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
Endosulfan sulfate (1C)	ND		1.9	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
Endrin (1C)	ND		1.9	0.77	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
gamma-BHC (Lindane) (1C)	ND		0.94	0.24	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
gamma-Chlordane (1C)	ND		0.94	0.28	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
Heptachlor (1C)	ND		0.94	0.35	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
Heptachlor epoxide (1C)	ND		0.94	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
Methoxychlor (1C)	ND		7.6	2.0	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
Toxaphene (1C)	ND		38	16	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
p,p'-DDD (2C)	**0.43**	**J**	1.9	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
p,p'-DDE (2C)	**12**		1.9	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
p,p'-DDT (1C)	**5.6**		1.9	0.90	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1
Chlordane (n.o.s.) (1C)	ND		19	4.6	ug/Kg	☼	09/02/20 16:39	09/04/20 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*93*		*46 - 152*	*09/02/20 16:39*	*09/04/20 07:42*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*88*		*46 - 152*	*09/02/20 16:39*	*09/04/20 07:42*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*92*		*19 - 136*	*09/02/20 16:39*	*09/04/20 07:42*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*81*		*19 - 136*	*09/02/20 16:39*	*09/04/20 07:42*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	1.9	0.86	ug/Kg	☼	09/10/20 19:40	09/14/20 23:17	1
2,4-D (1C)	ND	*	41	14	ug/Kg	☼	09/10/20 19:40	09/14/20 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*36*		*27 - 136*	*09/10/20 19:40*	*09/14/20 23:17*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*39*		*27 - 136*	*09/10/20 19:40*	*09/14/20 23:17*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		290	57	ug/Kg	☼	09/03/20 23:16	09/09/20 19:46	20
Carbofuran	ND		290	57	ug/Kg	☼	09/03/20 23:16	09/09/20 19:46	20
Methiocarb	ND		290	57	ug/Kg	☼	09/03/20 23:16	09/09/20 19:46	20
Methomyl	ND		290	57	ug/Kg	☼	09/03/20 23:16	09/09/20 19:46	20
Oxamyl	ND		290	57	ug/Kg	☼	09/03/20 23:16	09/09/20 19:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*81*		*27 - 131*	*09/03/20 23:16*	*09/09/20 19:46*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.9**		0.64	0.21	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2
Barium	**170**		0.64	0.29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2
Cadmium	**0.25**		0.16	0.081	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2
Calcium	**1200**		64	24	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2
Chromium	**52**		0.64	0.25	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2
Lead	**140**		0.32	0.081	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2
Nickel	**24**		0.64	0.26	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2

Client Sample ID: PAD-B-S-CTR-0-0.5

Lab Sample ID: 410-12176-5
Date Collected: 08/27/20 13:15
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 86.9

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.51**	**J**	0.64	0.21	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2
Silver	**0.34**		0.16	0.065	mg/Kg	☼	08/31/20 08:21	09/15/20 17:29	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.1**		0.17	0.071	mg/Kg	☼	08/31/20 09:31	09/01/20 15:27	2.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.58	0.21	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.56	0.20	mg/Kg	☼	09/01/20 06:05	09/01/20 11:13	1
Percent Moisture	**13.1**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**86.9**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-A-SE-0-0.5

Lab Sample ID: 410-12176-6
Date Collected: 08/27/20 12:15
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 84.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,1,1-Trichloroethane	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,1,2,2-Tetrachloroethane	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,1,2-Trichloroethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,1-Dichloroethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,1-Dichloroethene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,2,4-Trichlorobenzene	ND		11	5.6	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,2-Dibromo-3-Chloropropane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,2-Dibromoethane	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,2-Dichloroethane	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,2-Dichloropropane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
1,4-Dioxane	ND		280	41	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
2-Butanone	ND		11	2.2	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
4-Methyl-2-pentanone	ND		11	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Acetone	ND		22	6.7	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Acrylonitrile	ND		22	0.89	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Benzene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Bromoform	ND		11	5.6	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Bromomethane	ND		5.6	0.78	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Carbon disulfide	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Carbon tetrachloride	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Chlorobenzene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Chloroethane	ND		5.6	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Chloroform	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Chloromethane	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
cis-1,3-Dichloropropene	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Dibromomethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Dichlorodifluoromethane	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Ethyl acetate	ND		5.6	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Ethyl ether	ND		5.6	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-A-SE-0-0.5

Date Collected: 08/27/20 12:15
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-6

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		5.6	1.1	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Ethylbenzene	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Freon 113	ND		11	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Methacrylonitrile	ND		56	8.9	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Methyl iodide	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Methyl methacrylate	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Methylene Chloride	ND		5.6	2.2	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Pentachloroethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Tetrachloroethene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Toluene	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
trans-1,2-Dichloroethene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
trans-1,3-Dichloropropene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Trichloroethene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Trichlorofluoromethane	ND		5.6	0.78	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Vinyl chloride	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/28/20 08:18	09/05/20 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/28/20 08:18*	*09/05/20 08:16*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*08/28/20 08:18*	*09/05/20 08:16*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/28/20 08:18*	*09/05/20 08:16*	*1*
Toluene-d8 (Surr)	*105*		*52 - 141*	*08/28/20 08:18*	*09/05/20 08:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
1,2,4-Trichlorobenzene	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
1,2-Dichlorobenzene	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
1,3-Dichlorobenzene	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
1,4-Dichlorobenzene	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,2'-oxybis[1-chloropropane]	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,4,5-Trichlorophenol	ND		78	35	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,4,6-Trichlorophenol	ND		66	31	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,4-Dichlorophenol	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,4-Dimethylphenol	ND		78	35	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,4-Dinitrophenol	ND		1200	390	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,4-Dinitrotoluene	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,6-Dichlorophenol	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2,6-Dinitrotoluene	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2-Acetylaminofluorene	ND		390	120	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2-Chloronaphthalene	ND		39	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2-Chlorophenol	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
2-Methylphenol	ND		78	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
3-Methylcholanthrene	ND	*	66	31	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
4,4'-Methylene bis(2-chloroaniline)	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
4-Bromophenyl-phenylether	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
4-Chloro-3-methylphenol	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
4-Chloroaniline	ND		190	39	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
4-Methylphenol	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
4-Nitroaniline	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-A-SE-0-0.5
Date Collected: 08/27/20 12:15
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-6
Matrix: Solid
Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
5-Nitro-o-toluidine	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Acetophenone	ND		58	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Aniline	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Anthracene	**88**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Benzo[a]anthracene	**280**		19	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Benzo[a]pyrene	**250**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Butylbenzylphthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Chrysene	**290**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Di-n-butyl phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Di-n-octyl phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Dibenz(a,h)anthracene	**54**		19	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Diethyl phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Dimethyl phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Fluoranthene	**590**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Hexachlorobenzene	ND		19	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Hexachlorobutadiene	ND		89	43	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Hexachlorocyclopentadiene	ND		580	230	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Hexachloroethane	ND		190	39	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Hexachloropropene	ND		390	120	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Indeno[1,2,3-cd]pyrene	**150**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Isosafrole	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Methapyrilene	ND		5800	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
N-Nitrosodi-n-propylamine	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
N-Nitrosodi-n-butylamine	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
N-Nitrosodiethylamine	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
N-Nitrosopiperidine	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
N-Nitrosopyrrolidine	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Naphthalene	**45**		19	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Nitrobenzene	ND		78	31	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Pentachlorobenzene	ND		50	23	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Pentachloronitrobenzene	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Phenacetin	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Pentachlorophenol	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Phenanthrene	**340**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Phenol	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Pronamide	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Pyrene	**470**		19	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Pyridine	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Safrole, Total	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Bis(2-chloroethoxy)methane	ND		43	19	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Bis(2-chloroethyl)ether	ND		58	27	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1
Bis(2-ethylhexyl) phthalate	ND		190	78	ug/Kg	☼	09/03/20 09:00	09/05/20 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 136*	*09/03/20 09:00*	*09/05/20 14:02*	*1*
2-Fluorobiphenyl (Surr)	*81*		*34 - 117*	*09/03/20 09:00*	*09/05/20 14:02*	*1*
2-Fluorophenol (Surr)	*64*		*18 - 115*	*09/03/20 09:00*	*09/05/20 14:02*	*1*
Nitrobenzene-d5 (Surr)	*74*		*23 - 115*	*09/03/20 09:00*	*09/05/20 14:02*	*1*
p-Terphenyl-d14 (Surr)	*84*		*35 - 135*	*09/03/20 09:00*	*09/05/20 14:02*	*1*

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Lab Sample ID: 410-12176-6

Matrix: Solid
Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*71*		*21 - 112*	*09/03/20 09:00*	*09/05/20 14:02*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	240	ug/Kg	☼		09/08/20 19:08	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/08/20 19:08	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/08/20 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*120*		*10 - 179*		*09/08/20 19:08*	*1*
Acetone (2C)	*92*		*10 - 179*		*09/08/20 19:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		19	4.0	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
alpha-Chlordane (1C)	ND		19	4.0	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
beta-BHC (1C)	ND		23	10	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
delta-BHC (1C)	ND		23	10	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Endosulfan I (1C)	ND		19	5.1	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Endosulfan II (1C)	ND		54	26	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Endosulfan sulfate (2C)	ND		40	7.7	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Endrin (1C)	ND		40	16	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
gamma-BHC (Lindane) (1C)	ND		19	4.9	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
gamma-Chlordane (1C)	ND		19	5.8	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Heptachlor (1C)	ND		19	7.2	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Heptachlor epoxide (1C)	ND		19	4.0	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Methoxychlor (1C)	ND		160	42	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Toxaphene (1C)	ND		770	330	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
p,p'-DDD (1C)	ND		40	7.7	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
p,p'-DDE (2C)	**240**		40	7.7	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
p,p'-DDT (1C)	**63**		40	18	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20
Chlordane (n.o.s.) (1C)	ND		400	93	ug/Kg	☼	09/02/20 16:39	09/04/20 08:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*343*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:04*	*20*
DCB Decachlorobiphenyl (Surr) (2C)	*341*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:04*	*20*
Tetrachloro-m-xylene (Surr) (1C)	*112*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:04*	*20*
Tetrachloro-m-xylene (Surr) (2C)	*96*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:04*	*20*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	2.0	0.88	ug/Kg	☼	09/10/20 19:40	09/14/20 23:50	1
2,4-D (1C)	ND	*	42	14	ug/Kg	☼	09/10/20 19:40	09/14/20 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*26*	*X*	*27 - 136*	*09/10/20 19:40*	*09/14/20 23:50*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*24*	*X*	*27 - 136*	*09/10/20 19:40*	*09/14/20 23:50*	*1*

Client Sample ID: PAD-A-SE-0-0.5

Date Collected: 08/27/20 12:15
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-6

Matrix: Solid
Percent Solids: 84.6

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/09/20 20:36	20
Carbofuran	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/09/20 20:36	20
Methiocarb	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/09/20 20:36	20
Methomyl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/09/20 20:36	20
Oxamyl	ND		300	59	ug/Kg	☼	09/03/20 23:16	09/09/20 20:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*73*		*27 - 131*	*09/03/20 23:16*	*09/09/20 20:36*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.5**		0.77	0.26	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2
Barium	**110**		0.77	0.35	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2
Cadmium	**1.2**		0.19	0.098	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2
Calcium	**1500**		77	29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2
Chromium	**58**		0.77	0.30	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2
Lead	**110**		0.39	0.098	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2
Nickel	**27**		0.77	0.32	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2
Selenium	**0.49**	**J**	0.77	0.25	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2
Silver	**0.87**		0.19	0.079	mg/Kg	☼	08/31/20 08:21	09/15/20 17:36	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.70**		0.068	0.028	mg/Kg	☼	08/31/20 09:31	09/01/20 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.59	0.21	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.57	0.20	mg/Kg	☼	09/01/20 06:05	09/01/20 11:14	1
Percent Moisture	**15.4**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**84.6**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-A-SUMP-2-3

Date Collected: 08/27/20 12:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-7

Matrix: Solid
Percent Solids: 82.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,1,1-Trichloroethane	ND		5.4	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,1,2,2-Tetrachloroethane	ND		5.4	0.43	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,1,2-Trichloroethane	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,1-Dichloroethane	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,1-Dichloroethene	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,2,4-Trichlorobenzene	ND		11	5.4	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,2-Dibromo-3-Chloropropane	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,2-Dibromoethane	ND		5.4	0.43	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,2-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,2-Dichloropropane	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
1,4-Dioxane	ND		270	40	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-A-SUMP-2-3
Date Collected: 08/27/20 12:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-7
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		11	2.2	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
4-Methyl-2-pentanone	ND		11	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Acetone	ND		22	6.5	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Acrylonitrile	ND		22	0.87	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Benzene	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Bromoform	ND		11	5.4	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Bromomethane	ND		5.4	0.76	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Carbon disulfide	ND		5.4	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Carbon tetrachloride	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Chlorobenzene	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Chloroethane	ND		5.4	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Chloroform	ND		5.4	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Chloromethane	ND		5.4	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
cis-1,3-Dichloropropene	ND		5.4	0.43	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Dibromomethane	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Dichlorodifluoromethane	ND		5.4	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Ethyl acetate	ND		5.4	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Ethyl ether	ND		5.4	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Ethyl methacrylate	ND		5.4	1.1	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Ethylbenzene	ND		5.4	0.43	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Freon 113	ND		11	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Methacrylonitrile	ND		54	8.7	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Methyl iodide	ND		5.4	0.43	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Methyl methacrylate	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Methylene Chloride	ND		5.4	2.2	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Pentachloroethane	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Tetrachloroethene	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Toluene	ND		5.4	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
trans-1,2-Dichloroethene	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
trans-1,3-Dichloropropene	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Trichloroethene	ND		5.4	0.54	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Trichlorofluoromethane	ND		5.4	0.76	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Vinyl chloride	ND		5.4	0.65	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/28/20 08:18	09/02/20 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/28/20 08:18*	*09/02/20 19:10*	*1*
4-Bromofluorobenzene (Surr)	*103*		*50 - 131*	*08/28/20 08:18*	*09/02/20 19:10*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/28/20 08:18*	*09/02/20 19:10*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/28/20 08:18*	*09/02/20 19:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
1,2,4-Trichlorobenzene	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
1,2-Dichlorobenzene	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
1,3-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
1,4-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2,2'-oxybis[1-chloropropane]	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2,4,5-Trichlorophenol	ND		80	36	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1

Client Sample ID: PAD-A-SUMP-2-3
Date Collected: 08/27/20 12:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-7
Matrix: Solid
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		68	32	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2,4-Dichlorophenol	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2,4-Dimethylphenol	ND		80	36	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2,4-Dinitrophenol	ND		1200	400	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2,4-Dinitrotoluene	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2,6-Dichlorophenol	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2,6-Dinitrotoluene	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2-Acetylaminofluorene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2-Chloronaphthalene	ND		40	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2-Chlorophenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
2-Methylphenol	ND		80	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
3-Methylcholanthrene	ND	*	68	32	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
4,4'-Methylene bis(2-chloroaniline)	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
4-Bromophenyl-phenylether	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
4-Chloro-3-methylphenol	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
4-Chloroaniline	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
4-Methylphenol	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
4-Nitroaniline	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
4-Nitrophenol	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
5-Nitro-o-toluidine	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Acetophenone	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Aniline	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Anthracene	**8.3**	**J**	20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Benzo[a]anthracene	**14**	**J**	20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Benzo[a]pyrene	**12**	**J**	20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Butylbenzylphthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Chrysene	**16**	**J**	20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Di-n-butyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Di-n-octyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Dibenz(a,h)anthracene	ND		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Diethyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Dimethyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Fluoranthene	**31**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Hexachlorobenzene	ND		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Hexachlorobutadiene	ND		92	44	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Hexachlorocyclopentadiene	ND		600	240	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Hexachloroethane	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Hexachloropropene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Indeno[1,2,3-cd]pyrene	**8.4**	**J**	20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Isosafrole	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Methapyrilene	ND		6000	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
N-Nitrosodi-n-propylamine	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
N-Nitrosodi-n-butylamine	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
N-Nitrosodiethylamine	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
N-Nitrosopiperidine	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
N-Nitrosopyrrolidine	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Naphthalene	**12**	**J**	20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Nitrobenzene	ND		80	32	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Pentachlorobenzene	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1

Client Sample ID: PAD-A-SUMP-2-3
Date Collected: 08/27/20 12:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-7
Matrix: Solid
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachloronitrobenzene	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Phenacetin	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Pentachlorophenol	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Phenanthrene	**33**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Phenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Pronamide	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Pyrene	**28**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Pyridine	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Safrole, Total	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Bis(2-chloroethoxy)methane	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Bis(2-chloroethyl)ether	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1
Bis(2-ethylhexyl) phthalate	**86**	**J**	200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 136*	*09/03/20 09:00*	*09/05/20 14:26*	*1*
2-Fluorobiphenyl (Surr)	*74*		*34 - 117*	*09/03/20 09:00*	*09/05/20 14:26*	*1*
2-Fluorophenol (Surr)	*63*		*18 - 115*	*09/03/20 09:00*	*09/05/20 14:26*	*1*
Nitrobenzene-d5 (Surr)	*68*		*23 - 115*	*09/03/20 09:00*	*09/05/20 14:26*	*1*
p-Terphenyl-d14 (Surr)	*79*		*35 - 135*	*09/03/20 09:00*	*09/05/20 14:26*	*1*
Phenol-d5 (Surr)	*69*		*21 - 112*	*09/03/20 09:00*	*09/05/20 14:26*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	240	ug/Kg	☼		09/08/20 19:25	1
Isobutanol (1C)	ND		1200	210	ug/Kg	☼		09/08/20 19:25	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/08/20 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*124*		*10 - 179*		*09/08/20 19:25*	*1*
Acetone (2C)	*95*		*10 - 179*		*09/08/20 19:25*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (2C)	ND		1.0	0.21	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
alpha-Chlordane (1C)	ND		1.0	0.21	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
beta-BHC (1C)	ND		1.2	0.53	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
delta-BHC (1C)	ND		1.2	0.54	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
Endosulfan I (1C)	ND		1.0	0.27	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
Endosulfan II (1C)	ND		2.8	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
Endosulfan sulfate (2C)	ND		2.1	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
Endrin (1C)	ND		2.1	0.82	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
gamma-BHC (Lindane) (1C)	ND		1.0	0.25	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
gamma-Chlordane (1C)	ND		1.0	0.30	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
Heptachlor (1C)	ND		1.0	0.37	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
Heptachlor epoxide (1C)	ND		1.0	0.21	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
Methoxychlor (1C)	ND		8.1	2.2	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
Toxaphene (1C)	ND		40	17	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
p,p'-DDD (2C)	ND		2.1	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
p,p'-DDE (2C)	**8.7**		2.1	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1
p,p'-DDT (1C)	**2.4**		2.1	0.96	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1

Client Sample ID: PAD-A-SUMP-2-3

Date Collected: 08/27/20 12:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-7

Matrix: Solid
Percent Solids: 82.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (n.o.s.) (1C)	ND		21	4.8	ug/Kg	☼	09/02/20 16:39	09/04/20 08:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*123*		*46 - 152*	*09/02/20 16:39*	*09/04/20 08:14*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*111*		*46 - 152*	*09/02/20 16:39*	*09/04/20 08:14*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*90*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:14*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*76*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:14*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	2.1	0.91	ug/Kg	☼	09/10/20 19:40	09/15/20 01:30	1
2,4-D (1C)	ND	*	44	15	ug/Kg	☼	09/10/20 19:40	09/15/20 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*38*		*27 - 136*	*09/10/20 19:40*	*09/15/20 01:30*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*38*		*27 - 136*	*09/10/20 19:40*	*09/15/20 01:30*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		310	61	ug/Kg	☼	09/03/20 23:16	09/09/20 21:25	20
Carbofuran	ND		310	61	ug/Kg	☼	09/03/20 23:16	09/09/20 21:25	20
Methiocarb	ND		310	61	ug/Kg	☼	09/03/20 23:16	09/09/20 21:25	20
Methomyl	ND		310	61	ug/Kg	☼	09/03/20 23:16	09/09/20 21:25	20
Oxamyl	ND		310	61	ug/Kg	☼	09/03/20 23:16	09/09/20 21:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*77*		*27 - 131*	*09/03/20 23:16*	*09/09/20 21:25*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.2**		0.88	0.29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2
Barium	**110**		0.88	0.40	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2
Cadmium	ND		0.22	0.11	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2
Calcium	**2200**		88	33	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2
Chromium	**94**		0.88	0.34	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2
Lead	**44**		0.44	0.11	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2
Nickel	**35**		0.88	0.36	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2
Selenium	**0.30**	**J**	0.88	0.29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2
Silver	ND		0.22	0.089	mg/Kg	☼	08/31/20 08:21	09/15/20 17:38	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.069	0.029	mg/Kg	☼	08/31/20 09:31	09/01/20 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.61	0.22	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.60	0.22	mg/Kg	☼	09/01/20 06:05	09/01/20 11:16	1
Percent Moisture	**18.0**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-A-SUMP-2-3

Lab Sample ID: 410-12176-7

Date Collected: 08/27/20 12:30
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 82.0

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.0		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-A-S-CTR-0-0.5

Lab Sample ID: 410-12176-8

Date Collected: 08/27/20 12:45
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 89.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,1,1-Trichloroethane	ND		300	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,1,2,2-Tetrachloroethane	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,1,2-Trichloroethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,1-Dichloroethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,1-Dichloroethene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,2,4-Trichlorobenzene	ND		590	300	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,2-Dibromo-3-Chloropropane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,2-Dibromoethane	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,2-Dichloroethane	ND		300	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,2-Dichloropropane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
1,4-Dioxane	ND		15000	2200	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
2-Butanone	ND		590	120	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
4-Methyl-2-pentanone	ND		590	59	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Acetone	ND		1200	350	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Acrylonitrile	ND		1200	47	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Benzene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Bromoform	ND		590	300	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Bromomethane	ND		300	41	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Carbon disulfide	ND		300	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Carbon tetrachloride	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Chlorobenzene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Chloroethane	ND		300	59	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Chloroform	ND		300	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Chloromethane	ND		300	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
cis-1,3-Dichloropropene	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Dibromomethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Dichlorodifluoromethane	ND		300	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Ethyl acetate	ND		300	59	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Ethyl ether	ND		300	59	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Ethyl methacrylate	ND		300	59	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Ethylbenzene	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Freon 113	ND		590	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Methacrylonitrile	ND		3000	470	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Methyl iodide	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Methyl methacrylate	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Methylene Chloride	ND		300	120	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Pentachloroethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Tetrachloroethene	43	J	300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Toluene	ND		300	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
trans-1,2-Dichloroethene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
trans-1,3-Dichloropropene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-A-S-CTR-0-0.5

Date Collected: 08/27/20 12:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-8

Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Trichlorofluoromethane	ND		300	41	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Vinyl chloride	ND		300	35	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50
Xylenes, Total	ND		590	83	ug/Kg	☼	08/28/20 08:12	09/02/20 04:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*54 - 135*	*08/28/20 08:12*	*09/02/20 04:27*	*50*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/28/20 08:12*	*09/02/20 04:27*	*50*
Dibromofluoromethane (Surr)	*85*		*50 - 141*	*08/28/20 08:12*	*09/02/20 04:27*	*50*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/28/20 08:12*	*09/02/20 04:27*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		41	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
1,2,4-Trichlorobenzene	ND		55	26	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
1,2-Dichlorobenzene	ND		55	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
1,3-Dichlorobenzene	ND		41	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
1,4-Dichlorobenzene	ND		41	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,2'-oxybis[1-chloropropane]	ND		48	22	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,4,5-Trichlorophenol	ND		74	33	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,4,6-Trichlorophenol	ND		63	29	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,4-Dichlorophenol	ND		48	22	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,4-Dimethylphenol	ND		74	33	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,4-Dinitrophenol	ND		1100	370	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,4-Dinitrotoluene	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,6-Dichlorophenol	ND		55	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2,6-Dinitrotoluene	ND		55	26	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2-Acetylaminofluorene	ND		370	110	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2-Chloronaphthalene	ND		37	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2-Chlorophenol	ND		41	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
2-Methylphenol	ND		74	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
3-Methylcholanthrene	ND	*	63	29	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
4,4'-Methylene bis(2-chloroaniline)	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
4-Bromophenyl-phenylether	ND		55	26	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
4-Chloro-3-methylphenol	ND		55	26	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
4-Chloroaniline	ND		180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
4-Methylphenol	ND		55	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
4-Nitroaniline	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
4-Nitrophenol	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
5-Nitro-o-toluidine	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Acetophenone	ND		55	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Aniline	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Anthracene	**96**		18	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Benzo[a]anthracene	**190**		18	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Benzo[a]pyrene	**190**		18	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Butylbenzylphthalate	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Chrysene	**310**		18	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Di-n-butyl phthalate	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Di-n-octyl phthalate	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Dibenz(a,h)anthracene	**40**		18	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-A-S-CTR-0-0.5

Date Collected: 08/27/20 12:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-8

Matrix: Solid
Percent Solids: 89.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Dimethyl phthalate	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Fluoranthene	**670**		18	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Hexachlorobenzene	ND		18	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Hexachlorobutadiene	ND		85	41	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Hexachlorocyclopentadiene	ND		550	220	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Hexachloroethane	ND		180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Hexachloropropene	ND		370	110	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Indeno[1,2,3-cd]pyrene	**150**		18	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Isosafrole	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Methapyrilene	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
N-Nitrosodi-n-propylamine	ND		55	26	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
N-Nitrosodi-n-butylamine	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
N-Nitrosodiethylamine	ND		48	22	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
N-Nitrosopiperidine	ND		41	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
N-Nitrosopyrrolidine	ND		55	26	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Naphthalene	**27**		18	7.4	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Nitrobenzene	ND		74	29	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Pentachlorobenzene	ND		48	22	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Pentachloronitrobenzene	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Phenacetin	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Pentachlorophenol	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Phenanthrene	**310**		18	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Phenol	ND		41	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Pronamide	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Pyrene	**510**		18	3.7	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Pyridine	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Safrole, Total	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Bis(2-chloroethoxy)methane	ND		41	18	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Bis(2-chloroethyl)ether	ND		55	26	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1
Bis(2-ethylhexyl) phthalate	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 136*	*09/03/20 09:00*	*09/05/20 14:49*	*1*
2-Fluorobiphenyl (Surr)	*70*		*34 - 117*	*09/03/20 09:00*	*09/05/20 14:49*	*1*
2-Fluorophenol (Surr)	*60*		*18 - 115*	*09/03/20 09:00*	*09/05/20 14:49*	*1*
Nitrobenzene-d5 (Surr)	*63*		*23 - 115*	*09/03/20 09:00*	*09/05/20 14:49*	*1*
p-Terphenyl-d14 (Surr)	*66*		*35 - 135*	*09/03/20 09:00*	*09/05/20 14:49*	*1*
Phenol-d5 (Surr)	*66*		*21 - 112*	*09/03/20 09:00*	*09/05/20 14:49*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1100	220	ug/Kg	☼		09/08/20 20:14	1
Isobutanol (1C)	ND		1100	190	ug/Kg	☼		09/08/20 20:14	1
Methanol (2C)	ND		1100	220	ug/Kg	☼		09/08/20 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*117*		*10 - 179*		*09/08/20 20:14*	*1*
Acetone (2C)	*94*		*10 - 179*		*09/08/20 20:14*	*1*

Client Sample ID: PAD-A-S-CTR-0-0.5

Date Collected: 08/27/20 12:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-8

Matrix: Solid
Percent Solids: 89.6

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.92	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
beta-BHC (1C)	ND		1.1	0.49	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
delta-BHC (1C)	ND		1.1	0.50	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Endosulfan I (1C)	ND		0.92	0.24	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Endosulfan II (2C)	**1.2**	**J p**	2.5	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Endosulfan sulfate (1C)	ND		1.9	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Endrin (1C)	ND		1.9	0.75	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
gamma-BHC (Lindane) (2C)	**0.37**	**J**	0.92	0.23	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
gamma-Chlordane (2C)	**0.53**	**J p**	0.92	0.28	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Heptachlor (2C)	ND		0.92	0.34	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Heptachlor epoxide (2C)	**0.24**	**J p**	0.92	0.19	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Methoxychlor (2C)	**12**	**B**	7.4	2.0	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Toxaphene (1C)	ND		36	15	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
p,p'-DDD (1C)	**0.40**	**J p**	1.9	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1
Chlordane (n.o.s.) (1C)	ND		19	4.4	ug/Kg	☼	09/02/20 16:39	09/04/20 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*379*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:25*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*345*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:25*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*81*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:25*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*62*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:25*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane (2C)	**3.2**	**J**	4.6	0.94	ug/Kg	☼	09/02/20 16:39	09/04/20 08:36	5
p,p'-DDE (2C)	**42**		9.4	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 08:36	5
p,p'-DDT (1C)	**25**		9.4	4.4	ug/Kg	☼	09/02/20 16:39	09/04/20 08:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*384*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:36*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*334*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:36*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*88*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:36*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*71*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:36*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	1.9	0.83	ug/Kg	☼	09/10/20 19:40	09/15/20 02:03	1
2,4-D (1C)	ND	*	40	13	ug/Kg	☼	09/10/20 19:40	09/15/20 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*12*	*X*	*27 - 136*	*09/10/20 19:40*	*09/15/20 02:03*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*9*	*X*	*27 - 136*	*09/10/20 19:40*	*09/15/20 02:03*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/09/20 23:04	20
Carbofuran	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/09/20 23:04	20
Methiocarb	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/09/20 23:04	20
Methomyl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/09/20 23:04	20

Client Sample ID: PAD-A-S-CTR-0-0.5

Date Collected: 08/27/20 12:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-8

Matrix: Solid
Percent Solids: 89.6

Method: 8318 - Carbamate (HPLC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxamyl	ND		280	56	ug/Kg	☼	09/03/20 23:16	09/09/20 23:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*76*		*27 - 131*	*09/03/20 23:16*	*09/09/20 23:04*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		0.82	0.27	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2
Barium	**180**		0.82	0.37	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2
Cadmium	**1.2**		0.20	0.10	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2
Calcium	**1800**		82	31	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2
Chromium	**63**		0.82	0.31	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2
Lead	**150**		0.41	0.10	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2
Nickel	**39**		0.82	0.33	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2
Selenium	**0.41**	**J**	0.82	0.27	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2
Silver	**0.79**		0.20	0.083	mg/Kg	☼	08/31/20 08:21	09/15/20 17:48	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.2**		0.33	0.14	mg/Kg	☼	08/31/20 09:31	09/01/20 15:11	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.56	0.20	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.55	0.20	mg/Kg	☼	09/01/20 06:05	09/01/20 11:17	1
Percent Moisture	**10.4**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**89.6**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-AB-S-0-0.5

Date Collected: 08/27/20 12:55
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-9

Matrix: Solid
Percent Solids: 83.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,1,1-Trichloroethane	ND		300	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,1,2,2-Tetrachloroethane	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,1,2-Trichloroethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,1-Dichloroethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,1-Dichloroethene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,2,4-Trichlorobenzene	ND		600	300	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,2-Dibromo-3-Chloropropane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,2-Dibromoethane	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,2-Dichloroethane	ND		300	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,2-Dichloropropane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
1,4-Dioxane	ND		15000	2200	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
2-Butanone	ND		600	120	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
4-Methyl-2-pentanone	ND		600	60	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Acetone	ND		1200	360	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Acrylonitrile	ND		1200	48	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50

Client Sample ID: PAD-AB-S-0-0.5
Date Collected: 08/27/20 12:55
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-9
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Bromoform	ND		600	300	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Bromomethane	ND		300	42	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Carbon disulfide	ND		300	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Carbon tetrachloride	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Chlorobenzene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Chloroethane	ND		300	60	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Chloroform	ND		300	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Chloromethane	ND		300	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
cis-1,3-Dichloropropene	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Dibromomethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Dichlorodifluoromethane	ND		300	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Ethyl acetate	ND		300	60	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Ethyl ether	ND		300	60	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Ethyl methacrylate	ND		300	60	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Ethylbenzene	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Freon 113	ND		600	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Methacrylonitrile	ND		3000	480	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Methyl iodide	ND		300	24	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Methyl methacrylate	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Methylene Chloride	ND		300	120	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Pentachloroethane	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Tetrachloroethene	**31**	**J**	300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Toluene	ND		300	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
trans-1,2-Dichloroethene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
trans-1,3-Dichloropropene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Trichloroethene	ND		300	30	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Trichlorofluoromethane	ND		300	42	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Vinyl chloride	ND		300	36	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50
Xylenes, Total	ND		600	84	ug/Kg	☼	08/28/20 08:12	09/02/20 04:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*54 - 135*	*08/28/20 08:12*	*09/02/20 04:48*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/28/20 08:12*	*09/02/20 04:48*	*50*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/28/20 08:12*	*09/02/20 04:48*	*50*
Toluene-d8 (Surr)	*87*		*52 - 141*	*08/28/20 08:12*	*09/02/20 04:48*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
1,2,4-Trichlorobenzene	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
1,2-Dichlorobenzene	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
1,3-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
1,4-Dichlorobenzene	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2,2'-oxybis[1-chloropropane]	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2,4,5-Trichlorophenol	ND		80	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2,4,6-Trichlorophenol	ND		68	32	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2,4-Dichlorophenol	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2,4-Dimethylphenol	ND		80	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2,4-Dinitrophenol	ND		1200	400	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-AB-S-0-0.5
Date Collected: 08/27/20 12:55
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-9
Matrix: Solid
Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2,6-Dichlorophenol	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2,6-Dinitrotoluene	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2-Acetylaminofluorene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2-Chloronaphthalene	ND		40	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2-Chlorophenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
2-Methylphenol	ND		80	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
3-Methylcholanthrene	ND	*	68	32	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
4,4'-Methylene bis(2-chloroaniline)	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
4-Bromophenyl-phenylether	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
4-Chloro-3-methylphenol	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
4-Chloroaniline	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
4-Methylphenol	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
4-Nitroaniline	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
4-Nitrophenol	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
5-Nitro-o-toluidine	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Acetophenone	ND		60	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Aniline	ND		600	200	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Anthracene	**37**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Benzo[a]anthracene	**120**		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Benzo[a]pyrene	**120**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Butylbenzylphthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Chrysene	**150**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Di-n-butyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Di-n-octyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Dibenz(a,h)anthracene	**28**		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Diethyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Dimethyl phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Fluoranthene	**230**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Hexachlorobenzene	ND		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Hexachlorobutadiene	ND		92	44	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Hexachlorocyclopentadiene	ND		600	240	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Hexachloroethane	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Hexachloropropene	ND		400	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Indeno[1,2,3-cd]pyrene	**74**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Isosafrole	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Methapyrilene	ND		6000	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
N-Nitrosodi-n-propylamine	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
N-Nitrosodi-n-butylamine	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
N-Nitrosodiethylamine	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
N-Nitrosopiperidine	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
N-Nitrosopyrrolidine	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Naphthalene	**27**		20	8.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Nitrobenzene	ND		80	32	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Pentachlorobenzene	ND		52	24	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Pentachloronitrobenzene	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Phenacetin	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Pentachlorophenol	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Phenanthrene	**120**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1

Client Sample ID: PAD-AB-S-0-0.5

Date Collected: 08/27/20 12:55
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-9

Matrix: Solid
Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Pronamide	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Pyrene	**190**		20	4.0	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Pyridine	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Safrole, Total	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Bis(2-chloroethoxy)methane	ND		44	20	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Bis(2-chloroethyl)ether	ND		60	28	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1
Bis(2-ethylhexyl) phthalate	ND		200	80	ug/Kg	☼	09/03/20 09:00	09/05/20 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 136*	*09/03/20 09:00*	*09/05/20 15:13*	*1*
2-Fluorobiphenyl (Surr)	*78*		*34 - 117*	*09/03/20 09:00*	*09/05/20 15:13*	*1*
2-Fluorophenol (Surr)	*71*		*18 - 115*	*09/03/20 09:00*	*09/05/20 15:13*	*1*
Nitrobenzene-d5 (Surr)	*68*		*23 - 115*	*09/03/20 09:00*	*09/05/20 15:13*	*1*
p-Terphenyl-d14 (Surr)	*80*		*35 - 135*	*09/03/20 09:00*	*09/05/20 15:13*	*1*
Phenol-d5 (Surr)	*76*		*21 - 112*	*09/03/20 09:00*	*09/05/20 15:13*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	240	ug/Kg	☼		09/08/20 20:31	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/08/20 20:31	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/08/20 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*122*		*10 - 179*		*09/08/20 20:31*	*1*
Acetone (2C)	*97*		*10 - 179*		*09/08/20 20:31*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		1.0	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
alpha-Chlordane (2C)	ND	p	2.2	2.2	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
beta-BHC (1C)	ND		1.2	0.53	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
delta-BHC (1C)	ND		1.2	0.54	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Endosulfan I (1C)	ND		1.0	0.26	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Endosulfan II (1C)	ND		2.8	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Endosulfan sulfate (2C)	ND		2.0	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Endrin (1C)	ND		2.0	0.82	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
gamma-BHC (Lindane) (1C)	ND		1.0	0.25	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
gamma-Chlordane (1C)	**1.5**		1.0	0.30	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Heptachlor (1C)	ND		1.0	0.37	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Heptachlor epoxide (1C)	ND		1.0	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Methoxychlor (2C)	**2.9**	**J B**	8.1	2.2	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Toxaphene (1C)	ND		40	17	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
p,p'-DDD (1C)	ND		2.0	0.40	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
p,p'-DDT (1C)	**15**		2.0	0.95	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1
Chlordane (n.o.s.) (1C)	ND		20	4.8	ug/Kg	☼	09/02/20 16:39	09/04/20 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*181*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:46*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*163*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:46*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*85*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:46*	*1*

Client Sample ID: PAD-AB-S-0-0.5

Date Collected: 08/27/20 12:55
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-9

Matrix: Solid
Percent Solids: 83.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr) (2C)	*66*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:46*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p,p'-DDE (2C)	**45**		10	2.0	ug/Kg	☼	09/02/20 16:39	09/04/20 08:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*194*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:57*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*168*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 08:57*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*94*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:57*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*77*		*19 - 136*	*09/02/20 16:39*	*09/04/20 08:57*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	2.0	0.90	ug/Kg	☼	09/10/20 19:40	09/15/20 02:37	1
2,4-D (1C)	ND	*	43	14	ug/Kg	☼	09/10/20 19:40	09/15/20 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*46*		*27 - 136*	*09/10/20 19:40*	*09/15/20 02:37*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*44*		*27 - 136*	*09/10/20 19:40*	*09/15/20 02:37*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 23:53	20
Carbofuran	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 23:53	20
Methiocarb	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 23:53	20
Methomyl	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 23:53	20
Oxamyl	ND		300	60	ug/Kg	☼	09/03/20 23:16	09/09/20 23:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*77*		*27 - 131*	*09/03/20 23:16*	*09/09/20 23:53*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.5**		0.90	0.30	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2
Barium	**190**		0.90	0.41	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2
Cadmium	**1.4**		0.22	0.11	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2
Calcium	**1500**		90	34	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2
Chromium	**81**		0.90	0.35	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2
Lead	**86**		0.45	0.11	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2
Nickel	**28**		0.90	0.37	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2
Selenium	**0.47**	**J**	0.90	0.29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2
Silver	**0.91**		0.22	0.091	mg/Kg	☼	08/31/20 08:21	09/15/20 17:31	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.81**		0.069	0.029	mg/Kg	☼	08/31/20 09:31	09/01/20 14:40	1

Client Sample ID: PAD-AB-S-0-0.5

Lab Sample ID: 410-12176-9

Date Collected: 08/27/20 12:55
Date Received: 08/27/20 18:22

Matrix: Solid
Percent Solids: 83.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.60	0.22	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.60	0.22	mg/Kg	☼	09/01/20 06:05	09/01/20 11:18	1
Percent Moisture	**16.9**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**83.1**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-TB1-082720

Lab Sample ID: 410-12176-10

Date Collected: 08/27/20 13:45
Date Received: 08/27/20 18:22

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1.8**	**J**	20	0.70	ug/L			09/08/20 13:41	1
Acrylonitrile	ND		20	0.30	ug/L			09/08/20 13:41	1
Benzene	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Bromoform	ND		4.0	1.0	ug/L			09/08/20 13:41	1
Bromomethane	ND		1.0	0.30	ug/L			09/08/20 13:41	1
2-Butanone	ND		10	0.30	ug/L			09/08/20 13:41	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/08/20 13:41	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Chloroethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Chloroform	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Chloromethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/20 13:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/08/20 13:41	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Dibromomethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/08/20 13:41	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/08/20 13:41	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
1,4-Dioxane	ND		250	29	ug/L			09/08/20 13:41	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/08/20 13:41	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/08/20 13:41	1
Ethyl ether	ND		5.0	0.20	ug/L			09/08/20 13:41	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/08/20 13:41	1
Freon 113	ND		10	0.20	ug/L			09/08/20 13:41	1
Methacrylonitrile	ND		50	6.0	ug/L			09/08/20 13:41	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/08/20 13:41	1
Methyl iodide	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/08/20 13:41	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/08/20 13:41	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/08/20 13:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Toluene	ND		1.0	0.20	ug/L			09/08/20 13:41	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/08/20 13:41	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/20 13:41	1

Client Sample ID: PAD-TB1-082720

Date Collected: 08/27/20 13:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/08/20 13:41	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/08/20 13:41	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Trichloroethene	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/08/20 13:41	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/08/20 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/08/20 13:41*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/08/20 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/08/20 13:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/08/20 13:41*	*1*

Client Sample ID: PAD-G-E-NE-0-0.5

Date Collected: 08/27/20 08:40
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-11

Matrix: Solid
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,1,1-Trichloroethane	ND		4.7	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.38	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,1,2-Trichloroethane	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,1-Dichloroethane	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,1-Dichloroethene	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,2,4-Trichlorobenzene	ND		9.4	4.7	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,2-Dibromo-3-Chloropropane	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,2-Dibromoethane	ND		4.7	0.38	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,2-Dichloroethane	ND		4.7	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,2-Dichloropropane	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
1,4-Dioxane	ND		240	35	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
2-Butanone	ND		9.4	1.9	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
4-Methyl-2-pentanone	ND		9.4	0.94	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Acetone	ND		19	5.7	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Acrylonitrile	ND		19	0.76	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Benzene	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Bromoform	ND		9.4	4.7	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Bromomethane	ND		4.7	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Carbon disulfide	ND		4.7	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Carbon tetrachloride	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Chlorobenzene	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Chloroethane	ND		4.7	0.94	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Chloroform	ND		4.7	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Chloromethane	ND		4.7	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
cis-1,3-Dichloropropene	ND		4.7	0.38	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Dibromomethane	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Dichlorodifluoromethane	ND		4.7	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Ethyl acetate	ND		4.7	0.94	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Ethyl ether	ND		4.7	0.94	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1

Client Sample ID: PAD-G-E-NE-0-0.5
Date Collected: 08/27/20 08:40
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-11
Matrix: Solid
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		4.7	0.94	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Ethylbenzene	ND		4.7	0.38	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Freon 113	ND		9.4	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Methacrylonitrile	ND		47	7.6	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Methyl iodide	ND		4.7	0.38	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Methyl methacrylate	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Methylene Chloride	ND		4.7	1.9	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Pentachloroethane	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Tetrachloroethene	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Toluene	ND		4.7	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
trans-1,2-Dichloroethene	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
trans-1,3-Dichloropropene	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Trichloroethene	ND		4.7	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Trichlorofluoromethane	ND		4.7	0.66	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Vinyl chloride	ND		4.7	0.57	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1
Xylenes, Total	ND		9.4	1.3	ug/Kg	☼	08/28/20 08:18	09/02/20 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/28/20 08:18*	*09/02/20 17:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/28/20 08:18*	*09/02/20 17:40*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/28/20 08:18*	*09/02/20 17:40*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/28/20 08:18*	*09/02/20 17:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		190	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
1,2,4-Trichlorobenzene	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
1,2-Dichlorobenzene	ND		260	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
1,3-Dichlorobenzene	ND		190	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
1,4-Dichlorobenzene	ND		190	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,2'-oxybis[1-chloropropane]	ND		230	100	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,4,5-Trichlorophenol	ND		350	160	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,4,6-Trichlorophenol	ND		300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,4-Dichlorophenol	ND		230	100	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,4-Dimethylphenol	ND		350	160	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,4-Dinitrophenol	ND		5200	1700	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,4-Dinitrotoluene	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,6-Dichlorophenol	ND		260	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2,6-Dinitrotoluene	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2-Acetylaminofluorene	ND		1700	520	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2-Chloronaphthalene	ND		170	35	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2-Chlorophenol	ND		190	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
2-Methylphenol	ND		350	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
3-Methylcholanthrene	ND	*	300	140	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
4,4'-Methylene bis(2-chloroaniline)	ND		2600	870	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
4-Bromophenyl-phenylether	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
4-Chloro-3-methylphenol	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
4-Chloroaniline	ND		870	170	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
4-Methylphenol	ND		260	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
4-Nitroaniline	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5

Client Sample ID: PAD-G-E-NE-0-0.5
Date Collected: 08/27/20 08:40
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-11
Matrix: Solid
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		2600	870	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
5-Nitro-o-toluidine	ND		2600	870	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Acetophenone	ND		260	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Aniline	ND		2600	870	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Anthracene	ND		87	17	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Benzo[a]anthracene	**38**	**J**	87	35	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Benzo[a]pyrene	**48**	**J**	87	17	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Butylbenzylphthalate	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Chrysene	**50**	**J**	87	17	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Di-n-butyl phthalate	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Di-n-octyl phthalate	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Dibenz(a,h)anthracene	ND		87	35	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Diethyl phthalate	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Dimethyl phthalate	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Fluoranthene	**85**	**J**	87	17	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Hexachlorobenzene	ND		87	35	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Hexachlorobutadiene	ND		400	190	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Hexachlorocyclopentadiene	ND		2600	1000	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Hexachloroethane	ND		870	170	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Hexachloropropene	ND		1700	520	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Indeno[1,2,3-cd]pyrene	**55**	**J**	87	17	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Isosafrole	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Methapyrilene	ND		26000	8700	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
N-Nitrosodi-n-propylamine	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
N-Nitrosodi-n-butylamine	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
N-Nitrosodiethylamine	ND		230	100	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
N-Nitrosopiperidine	ND		190	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
N-Nitrosopyrrolidine	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Naphthalene	ND		87	35	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Nitrobenzene	ND		350	140	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Pentachlorobenzene	ND		230	100	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Pentachloronitrobenzene	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Phenacetin	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Pentachlorophenol	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Phenanthrene	**35**	**J**	87	17	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Phenol	ND		190	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Pronamide	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Pyrene	**70**	**J**	87	17	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Pyridine	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Safrole, Total	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Bis(2-chloroethoxy)methane	ND		190	87	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Bis(2-chloroethyl)ether	ND		260	120	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5
Bis(2-ethylhexyl) phthalate	ND		870	350	ug/Kg	☼	09/03/20 09:00	09/05/20 15:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 136*	*09/03/20 09:00*	*09/05/20 15:36*	*5*
2-Fluorobiphenyl (Surr)	*62*		*34 - 117*	*09/03/20 09:00*	*09/05/20 15:36*	*5*
2-Fluorophenol (Surr)	*59*		*18 - 115*	*09/03/20 09:00*	*09/05/20 15:36*	*5*
Nitrobenzene-d5 (Surr)	*61*		*23 - 115*	*09/03/20 09:00*	*09/05/20 15:36*	*5*
p-Terphenyl-d14 (Surr)	*64*		*35 - 135*	*09/03/20 09:00*	*09/05/20 15:36*	*5*

Client Sample ID: PAD-G-E-NE-0-0.5

Date Collected: 08/27/20 08:40
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-11

Matrix: Solid
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*62*		*21 - 112*	*09/03/20 09:00*	*09/05/20 15:36*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1100	210	ug/Kg	☼		09/08/20 20:47	1
Isobutanol (1C)	ND		1100	180	ug/Kg	☼		09/08/20 20:47	1
Methanol (2C)	ND		1100	210	ug/Kg	☼		09/08/20 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*132*		*10 - 179*		*09/08/20 20:47*	*1*
Acetone (2C)	*101*		*10 - 179*		*09/08/20 20:47*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.88	0.18	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
alpha-Chlordane (1C)	**0.79**	**J p**	0.88	0.18	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
beta-BHC (1C)	ND		1.1	0.47	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
delta-BHC (1C)	ND		1.1	0.48	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Endosulfan I (1C)	ND		0.88	0.23	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Endosulfan II (1C)	ND		2.4	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Endosulfan sulfate (1C)	ND		1.8	0.35	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Endrin (1C)	ND		1.8	0.72	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
gamma-BHC (Lindane) (1C)	ND		0.88	0.22	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
gamma-Chlordane (2C)	**1.3**		0.88	0.26	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Heptachlor (1C)	ND		0.88	0.33	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Heptachlor epoxide (2C)	**0.25**	**J**	0.88	0.18	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Methoxychlor (1C)	ND		7.1	1.9	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Toxaphene (1C)	ND		35	15	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
p,p'-DDD (1C)	ND		1.8	0.35	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
p,p'-DDE (1C)	ND		1.8	0.35	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
p,p'-DDT (2C)	ND		1.8	0.84	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1
Chlordane (n.o.s.) (2C)	**8.8**	**J**	18	4.2	ug/Kg	☼	09/02/20 16:39	09/04/20 09:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*103*		*46 - 152*	*09/02/20 16:39*	*09/04/20 09:08*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*92*		*46 - 152*	*09/02/20 16:39*	*09/04/20 09:08*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*85*		*19 - 136*	*09/02/20 16:39*	*09/04/20 09:08*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*67*		*19 - 136*	*09/02/20 16:39*	*09/04/20 09:08*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	1.8	0.79	ug/Kg	☼	09/10/20 19:40	09/15/20 03:10	1
2,4-D (1C)	ND	*	38	13	ug/Kg	☼	09/10/20 19:40	09/15/20 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*59*		*27 - 136*	*09/10/20 19:40*	*09/15/20 03:10*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*55*		*27 - 136*	*09/10/20 19:40*	*09/15/20 03:10*	*1*

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-E-NE-0-0.5

Date Collected: 08/27/20 08:40
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-11

Matrix: Solid
Percent Solids: 94.1

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		260	53	ug/Kg	☼	09/03/20 23:16	09/10/20 00:43	20
Carbofuran	ND		260	53	ug/Kg	☼	09/03/20 23:16	09/10/20 00:43	20
Methiocarb	ND		260	53	ug/Kg	☼	09/03/20 23:16	09/10/20 00:43	20
Methomyl	ND		260	53	ug/Kg	☼	09/03/20 23:16	09/10/20 00:43	20
Oxamyl	ND		260	53	ug/Kg	☼	09/03/20 23:16	09/10/20 00:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*76*		*27 - 131*	*09/03/20 23:16*	*09/10/20 00:43*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.5**		0.78	0.26	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2
Barium	**79**		0.78	0.36	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2
Cadmium	**0.43**		0.20	0.098	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2
Calcium	**6600**		78	29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2
Chromium	**41**		0.78	0.30	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2
Lead	**9.5**		0.39	0.098	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2
Nickel	**52**		0.78	0.32	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2
Selenium	ND		0.78	0.25	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2
Silver	**0.41**		0.20	0.079	mg/Kg	☼	08/31/20 08:21	09/15/20 17:46	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.061	0.025	mg/Kg	☼	08/31/20 09:31	09/01/20 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.53	0.19	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.51	0.18	mg/Kg	☼	09/01/20 06:05	09/01/20 11:25	1
Percent Moisture	**5.9**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**94.1**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-G-E-CTR-0-0.5

Date Collected: 08/27/20 08:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-12

Matrix: Solid
Percent Solids: 90.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,1,1-Trichloroethane	ND		5.1	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.41	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,1,2-Trichloroethane	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,1-Dichloroethane	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,1-Dichloroethene	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,2,4-Trichlorobenzene	ND		10	5.1	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,2-Dibromo-3-Chloropropane	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,2-Dibromoethane	ND		5.1	0.41	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,2-Dichloroethane	ND		5.1	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,2-Dichloropropane	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
1,4-Dioxane	ND		250	38	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-E-CTR-0-0.5
Date Collected: 08/27/20 08:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-12
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	2.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
4-Methyl-2-pentanone	ND		10	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Acetone	18	J	20	6.1	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Acrylonitrile	ND		20	0.81	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Benzene	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Bromoform	ND		10	5.1	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Bromomethane	ND		5.1	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Carbon disulfide	ND		5.1	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Carbon tetrachloride	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Chlorobenzene	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Chloroethane	ND		5.1	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Chloroform	ND		5.1	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Chloromethane	ND		5.1	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
cis-1,3-Dichloropropene	ND		5.1	0.41	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Dibromomethane	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Dichlorodifluoromethane	ND		5.1	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Ethyl acetate	ND		5.1	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Ethyl ether	ND		5.1	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Ethyl methacrylate	ND		5.1	1.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Ethylbenzene	ND		5.1	0.41	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Freon 113	ND		10	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Methacrylonitrile	ND		51	8.1	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Methyl iodide	ND		5.1	0.41	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Methyl methacrylate	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Methylene Chloride	ND		5.1	2.0	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Pentachloroethane	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Tetrachloroethene	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Toluene	ND		5.1	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
trans-1,2-Dichloroethene	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
trans-1,3-Dichloropropene	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Trichloroethene	ND		5.1	0.51	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Trichlorofluoromethane	ND		5.1	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Vinyl chloride	ND		5.1	0.61	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/28/20 08:18	09/02/20 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*08/28/20 08:18*	*09/02/20 18:02*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*08/28/20 08:18*	*09/02/20 18:02*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/28/20 08:18*	*09/02/20 18:02*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/28/20 08:18*	*09/02/20 18:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
1,2,4-Trichlorobenzene	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
1,2-Dichlorobenzene	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
1,3-Dichlorobenzene	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
1,4-Dichlorobenzene	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2,2'-oxybis[1-chloropropane]	ND		470	220	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2,4,5-Trichlorophenol	ND		730	330	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-E-CTR-0-0.5
Date Collected: 08/27/20 08:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-12
Matrix: Solid
Percent Solids: 90.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		620	290	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2,4-Dichlorophenol	ND		470	220	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2,4-Dimethylphenol	ND		730	330	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2,4-Dinitrophenol	ND		11000	3600	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2,4-Dinitrotoluene	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2,6-Dichlorophenol	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2,6-Dinitrotoluene	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2-Acetylaminofluorene	ND		3600	1100	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2-Chloronaphthalene	ND		360	73	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2-Chlorophenol	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
2-Methylphenol	ND		730	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
3-Methylcholanthrene	ND	*	620	290	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
4,4'-Methylene bis(2-chloroaniline)	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
4-Bromophenyl-phenylether	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
4-Chloro-3-methylphenol	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
4-Chloroaniline	ND		1800	360	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
4-Methylphenol	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
4-Nitroaniline	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
4-Nitrophenol	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
5-Nitro-o-toluidine	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Acetophenone	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Aniline	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Anthracene	ND		180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Benzo[a]anthracene	**110**	**J**	180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Benzo[a]pyrene	**160**	**J**	180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Butylbenzylphthalate	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Chrysene	**210**		180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Di-n-butyl phthalate	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Di-n-octyl phthalate	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Dibenz(a,h)anthracene	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Diethyl phthalate	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Dimethyl phthalate	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Fluoranthene	**330**		180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Hexachlorobenzene	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Hexachlorobutadiene	ND		840	400	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Hexachlorocyclopentadiene	ND		5500	2200	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Hexachloroethane	ND		1800	360	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Hexachloropropene	ND		3600	1100	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Indeno[1,2,3-cd]pyrene	**160**	**J**	180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Isosafrole	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Methapyrilene	ND		55000	18000	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
N-Nitrosodi-n-propylamine	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
N-Nitrosodi-n-butylamine	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
N-Nitrosodiethylamine	ND		470	220	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
N-Nitrosopiperidine	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
N-Nitrosopyrrolidine	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Naphthalene	ND		180	73	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Nitrobenzene	ND		730	290	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Pentachlorobenzene	ND		470	220	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10

Client Sample ID: PAD-G-E-CTR-0-0.5

Date Collected: 08/27/20 08:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-12

Matrix: Solid
Percent Solids: 90.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachloronitrobenzene	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Phenacetin	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Pentachlorophenol	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Phenanthrene	**220**		180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Phenol	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Pronamide	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Pyrene	**270**		180	36	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Pyridine	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Safrole, Total	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Bis(2-chloroethoxy)methane	ND		400	180	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Bis(2-chloroethyl)ether	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10
Bis(2-ethylhexyl) phthalate	ND		1800	730	ug/Kg	☼	09/03/20 09:00	09/05/20 15:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*10 - 136*	*09/03/20 09:00*	*09/05/20 15:59*	*10*
2-Fluorobiphenyl (Surr)	*65*		*34 - 117*	*09/03/20 09:00*	*09/05/20 15:59*	*10*
2-Fluorophenol (Surr)	*67*		*18 - 115*	*09/03/20 09:00*	*09/05/20 15:59*	*10*
Nitrobenzene-d5 (Surr)	*66*		*23 - 115*	*09/03/20 09:00*	*09/05/20 15:59*	*10*
p-Terphenyl-d14 (Surr)	*68*		*35 - 135*	*09/03/20 09:00*	*09/05/20 15:59*	*10*
Phenol-d5 (Surr)	*71*		*21 - 112*	*09/03/20 09:00*	*09/05/20 15:59*	*10*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1100	220	ug/Kg	☼		09/08/20 21:04	1
Isobutanol (1C)	ND		1100	190	ug/Kg	☼		09/08/20 21:04	1
Methanol (2C)	ND		1100	220	ug/Kg	☼		09/08/20 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*118*		*10 - 179*		*09/08/20 21:04*	*1*
Acetone (2C)	*92*		*10 - 179*		*09/08/20 21:04*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		4.5	0.93	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
alpha-Chlordane (2C)	**1.8**	**J**	4.5	0.93	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
beta-BHC (2C)	ND		5.4	2.4	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
delta-BHC (1C)	ND		5.4	2.4	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
Endosulfan I (1C)	ND		4.5	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
Endosulfan II (1C)	ND		13	6.0	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
Endosulfan sulfate (1C)	ND		9.3	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
Endrin (1C)	ND		9.3	3.7	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
gamma-BHC (Lindane) (1C)	ND		4.5	1.1	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
gamma-Chlordane (1C)	**1.5**	**J**	4.5	1.4	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
Heptachlor (1C)	ND		4.5	1.7	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
Heptachlor epoxide (1C)	ND		4.5	0.93	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
Methoxychlor (1C)	ND		36	9.8	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
Toxaphene (1C)	ND		180	76	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
p,p'-DDD (1C)	ND		9.3	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
p,p'-DDE (1C)	ND		9.3	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5
p,p'-DDT (2C)	ND		9.3	4.3	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-E-CTR-0-0.5

Date Collected: 08/27/20 08:45
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-12

Matrix: Solid
Percent Solids: 90.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (n.o.s.) (1C)	ND		93	22	ug/Kg	☼	09/02/20 16:39	09/04/20 09:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*108*		*46 - 152*	*09/02/20 16:39*	*09/04/20 09:18*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*99*		*46 - 152*	*09/02/20 16:39*	*09/04/20 09:18*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*88*		*19 - 136*	*09/02/20 16:39*	*09/04/20 09:18*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*67*		*19 - 136*	*09/02/20 16:39*	*09/04/20 09:18*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND	*	1.9	0.82	ug/Kg	☼	09/10/20 19:40	09/15/20 03:43	1
2,4-D (1C)	ND	*	39	13	ug/Kg	☼	09/10/20 19:40	09/15/20 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*58*		*27 - 136*	*09/10/20 19:40*	*09/15/20 03:43*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*53*		*27 - 136*	*09/10/20 19:40*	*09/15/20 03:43*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/10/20 01:32	20
Carbofuran	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/10/20 01:32	20
Methiocarb	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/10/20 01:32	20
Methomyl	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/10/20 01:32	20
Oxamyl	ND		270	55	ug/Kg	☼	09/03/20 23:16	09/10/20 01:32	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*80*		*27 - 131*	*09/03/20 23:16*	*09/10/20 01:32*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.0**		0.75	0.25	mg/Kg	☼	08/31/20 08:21	09/15/20 17:50	2
Barium	**96**		0.75	0.34	mg/Kg	☼	08/31/20 08:21	09/15/20 17:50	2
Cadmium	**0.43**		0.19	0.095	mg/Kg	☼	08/31/20 08:21	09/15/20 17:50	2
Calcium	**8100**		75	28	mg/Kg	☼	08/31/20 08:21	09/15/20 17:50	2
Chromium	**45**		0.75	0.29	mg/Kg	☼	08/31/20 08:21	09/15/20 17:50	2
Lead	**20**		0.38	0.095	mg/Kg	☼	08/31/20 08:21	09/26/20 12:49	2
Nickel	**63**		0.75	0.31	mg/Kg	☼	08/31/20 08:21	09/15/20 17:50	2
Selenium	ND		0.75	0.25	mg/Kg	☼	08/31/20 08:21	09/15/20 17:50	2
Silver	**1.2**		0.19	0.076	mg/Kg	☼	08/31/20 08:21	09/15/20 17:50	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**	**J**	0.064	0.027	mg/Kg	☼	08/31/20 09:31	09/01/20 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.55	0.20	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.55	0.20	mg/Kg	☼	09/01/20 06:05	09/01/20 11:26	1
Percent Moisture	**9.3**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-G-E-CTR-0-0.5

Lab Sample ID: 410-12176-12

Date Collected: 08/27/20 08:45
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 90.7

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.7		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-G-E-SE-0-0.5

Lab Sample ID: 410-12176-13

Date Collected: 08/27/20 08:50
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 83.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,1,1-Trichloroethane	ND		5.9	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,1,2,2-Tetrachloroethane	ND		5.9	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,1,2-Trichloroethane	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,1-Dichloroethane	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,1-Dichloroethene	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,2,4-Trichlorobenzene	ND		12	5.9	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,2-Dibromo-3-Chloropropane	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,2-Dichloropropane	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
1,4-Dioxane	ND		300	44	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
2-Butanone	ND		12	2.4	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
4-Methyl-2-pentanone	ND		12	1.2	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Acetone	210		24	7.1	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Acrylonitrile	ND		24	0.95	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Benzene	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Bromoform	ND		12	5.9	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Bromomethane	ND		5.9	0.83	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Carbon disulfide	ND		5.9	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Carbon tetrachloride	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Chlorobenzene	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Chloroethane	ND		5.9	1.2	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Chloroform	ND		5.9	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Chloromethane	ND		5.9	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
cis-1,3-Dichloropropene	ND		5.9	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Dibromomethane	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Dichlorodifluoromethane	ND		5.9	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Ethyl acetate	ND		5.9	1.2	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Ethyl ether	ND		5.9	1.2	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Ethyl methacrylate	ND		5.9	1.2	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Ethylbenzene	ND		5.9	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Freon 113	ND		12	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Methacrylonitrile	ND		59	9.5	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Methyl iodide	ND		5.9	0.47	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Methyl methacrylate	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Methylene Chloride	ND		5.9	2.4	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Pentachloroethane	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Tetrachloroethene	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Toluene	ND		5.9	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
trans-1,2-Dichloroethene	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
trans-1,3-Dichloropropene	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1

Client Sample ID: PAD-G-E-SE-0-0.5

Date Collected: 08/27/20 08:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-13

Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.9	0.59	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Trichlorofluoromethane	ND		5.9	0.83	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Vinyl chloride	ND		5.9	0.71	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	08/28/20 08:18	09/02/20 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/28/20 08:18*	*09/02/20 18:25*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/28/20 08:18*	*09/02/20 18:25*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/28/20 08:18*	*09/02/20 18:25*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/28/20 08:18*	*09/02/20 18:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		440	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
1,2,4-Trichlorobenzene	ND		590	280	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
1,2-Dichlorobenzene	ND		590	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
1,3-Dichlorobenzene	ND		440	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
1,4-Dichlorobenzene	ND		440	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,2'-oxybis[1-chloropropane]	ND		520	240	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,4,5-Trichlorophenol	ND		790	360	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,4,6-Trichlorophenol	ND		670	320	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,4-Dichlorophenol	ND		520	240	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,4-Dimethylphenol	ND		790	360	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,4-Dinitrophenol	ND		12000	4000	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,4-Dinitrotoluene	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,6-Dichlorophenol	ND		590	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2,6-Dinitrotoluene	ND		590	280	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2-Acetylaminofluorene	ND		4000	1200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2-Chloronaphthalene	ND		400	79	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2-Chlorophenol	ND		440	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
2-Methylphenol	ND		790	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
3-Methylcholanthrene	ND	*	670	320	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
4,4'-Methylene bis(2-chloroaniline)	ND		5900	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
4-Bromophenyl-phenylether	ND		590	280	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
4-Chloro-3-methylphenol	ND		590	280	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
4-Chloroaniline	ND		2000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
4-Methylphenol	ND		590	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
4-Nitroaniline	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
4-Nitrophenol	ND		5900	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
5-Nitro-o-toluidine	ND		5900	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Acetophenone	ND		590	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Aniline	ND		5900	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Anthracene	ND		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Benzo[a]anthracene	**140**	**J**	200	79	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Benzo[a]pyrene	**240**		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Butylbenzylphthalate	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Chrysene	**300**		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Di-n-butyl phthalate	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Di-n-octyl phthalate	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Dibenz(a,h)anthracene	ND		200	79	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10

Client Sample ID: PAD-G-E-SE-0-0.5

Date Collected: 08/27/20 08:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-13

Matrix: Solid
Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Dimethyl phthalate	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Fluoranthene	**360**		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Hexachlorobenzene	ND		200	79	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Hexachlorobutadiene	ND		910	440	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Hexachlorocyclopentadiene	ND		5900	2400	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Hexachloroethane	ND		2000	400	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Hexachloropropene	ND		4000	1200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Indeno[1,2,3-cd]pyrene	**240**		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Isosafrole	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Methapyrilene	ND		59000	20000	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
N-Nitrosodi-n-propylamine	ND		590	280	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
N-Nitrosodi-n-butylamine	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
N-Nitrosodiethylamine	ND		520	240	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
N-Nitrosopiperidine	ND		440	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
N-Nitrosopyrrolidine	ND		590	280	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Naphthalene	ND		200	79	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Nitrobenzene	ND		790	320	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Pentachlorobenzene	ND		520	240	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Pentachloronitrobenzene	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Phenacetin	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Pentachlorophenol	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Phenanthrene	**170**	**J**	200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Phenol	ND		440	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Pronamide	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Pyrene	**330**		200	40	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Pyridine	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Safrole, Total	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Bis(2-chloroethoxy)methane	ND		440	200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Bis(2-chloroethyl)ether	ND		590	280	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10
Bis(2-ethylhexyl) phthalate	ND		2000	790	ug/Kg	☼	09/03/20 09:00	09/05/20 16:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*53*		*10 - 136*	*09/03/20 09:00*	*09/05/20 16:23*	*10*
2-Fluorobiphenyl (Surr)	*57*		*34 - 117*	*09/03/20 09:00*	*09/05/20 16:23*	*10*
2-Fluorophenol (Surr)	*57*		*18 - 115*	*09/03/20 09:00*	*09/05/20 16:23*	*10*
Nitrobenzene-d5 (Surr)	*27*		*23 - 115*	*09/03/20 09:00*	*09/05/20 16:23*	*10*
p-Terphenyl-d14 (Surr)	*56*		*35 - 135*	*09/03/20 09:00*	*09/05/20 16:23*	*10*
Phenol-d5 (Surr)	*59*		*21 - 112*	*09/03/20 09:00*	*09/05/20 16:23*	*10*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	240	ug/Kg	☼		09/08/20 21:20	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/08/20 21:20	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/08/20 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*113*		*10 - 179*		*09/08/20 21:20*	*1*
Acetone (2C)	*89*		*10 - 179*		*09/08/20 21:20*	*1*

Client Sample ID: PAD-G-E-SE-0-0.5

Date Collected: 08/27/20 08:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-13

Matrix: Solid
Percent Solids: 83.8

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.99	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
alpha-Chlordane (2C)	**1.2**		0.99	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
beta-BHC (1C)	ND		1.2	0.52	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
delta-BHC (2C)	ND		1.2	0.53	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Endosulfan I (1C)	ND		0.99	0.26	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Endosulfan II (1C)	ND		2.7	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Endosulfan sulfate (1C)	ND		2.0	0.39	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Endrin (1C)	ND		2.0	0.81	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
gamma-BHC (Lindane) (1C)	**0.39**	**J p**	0.99	0.25	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
gamma-Chlordane (1C)	**1.3**		0.99	0.30	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Heptachlor (1C)	**0.49**	**J p**	0.99	0.37	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Heptachlor epoxide (1C)	ND		0.99	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Methoxychlor (1C)	ND		8.0	2.1	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Toxaphene (1C)	ND		39	17	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
p,p'-DDD (1C)	ND		2.0	0.39	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
p,p'-DDE (2C)	**0.77**	**J p**	2.0	0.39	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
p,p'-DDT (2C)	**1.0**	**J p**	2.0	0.94	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1
Chlordane (n.o.s.) (1C)	ND		20	4.7	ug/Kg	☼	09/02/20 16:39	09/04/20 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*124*		*46 - 152*	*09/02/20 16:39*	*09/04/20 09:29*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*83*		*46 - 152*	*09/02/20 16:39*	*09/04/20 09:29*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*54*		*19 - 136*	*09/02/20 16:39*	*09/04/20 09:29*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*41*		*19 - 136*	*09/02/20 16:39*	*09/04/20 09:29*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND	*	2.0	0.88	ug/Kg	☼	09/10/20 19:40	09/15/20 04:17	1
2,4-D (2C)	ND	*	42	14	ug/Kg	☼	09/10/20 19:40	09/15/20 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*45*		*27 - 136*	*09/10/20 19:40*	*09/15/20 04:17*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*44*		*27 - 136*	*09/10/20 19:40*	*09/15/20 04:17*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		300	59	ug/Kg	☼	09/03/20 23:52	09/09/20 08:16	20
Carbofuran	ND		300	59	ug/Kg	☼	09/03/20 23:52	09/09/20 08:16	20
Methiocarb	ND		300	59	ug/Kg	☼	09/03/20 23:52	09/09/20 08:16	20
Methomyl	ND		300	59	ug/Kg	☼	09/03/20 23:52	09/09/20 08:16	20
Oxamyl	ND		300	59	ug/Kg	☼	09/03/20 23:52	09/09/20 08:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*40*		*27 - 131*	*09/03/20 23:52*	*09/09/20 08:16*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.3**		0.92	0.31	mg/Kg	☼	08/31/20 08:21	09/15/20 17:42	2
Barium	**65**		0.92	0.42	mg/Kg	☼	08/31/20 08:21	09/15/20 17:42	2

Client Sample ID: PAD-G-E-SE-0-0.5

Lab Sample ID: 410-12176-13

Date Collected: 08/27/20 08:50
Date Received: 08/27/20 18:22

Matrix: Solid
Percent Solids: 83.8

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.4		0.23	0.12	mg/Kg	☼	08/31/20 08:21	09/15/20 17:42	2
Calcium	14000		230	86	mg/Kg	☼	08/31/20 08:21	09/22/20 18:16	5
Chromium	41		0.92	0.35	mg/Kg	☼	08/31/20 08:21	09/15/20 17:42	2
Lead	22		0.46	0.12	mg/Kg	☼	08/31/20 08:21	09/26/20 12:47	2
Nickel	54		0.92	0.37	mg/Kg	☼	08/31/20 08:21	09/15/20 17:42	2
Selenium	ND		0.92	0.30	mg/Kg	☼	08/31/20 08:21	09/15/20 17:42	2
Silver	1.9		0.23	0.093	mg/Kg	☼	08/31/20 08:21	09/15/20 17:42	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.070	0.029	mg/Kg	☼	08/31/20 09:31	09/01/20 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.53	J	0.60	0.21	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	0.53	J	0.58	0.21	mg/Kg	☼	09/01/20 06:05	09/01/20 11:28	1
Percent Moisture	16.2		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	83.8		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-G-S-SE-0-0.5

Lab Sample ID: 410-12176-14

Date Collected: 08/27/20 08:47
Date Received: 08/27/20 18:22

Matrix: Solid
Percent Solids: 89.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,1,1-Trichloroethane	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,1,2,2-Tetrachloroethane	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,1,2-Trichloroethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,1-Dichloroethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,1-Dichloroethene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,2,4-Trichlorobenzene	ND		11	5.6	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,2-Dibromo-3-Chloropropane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,2-Dibromoethane	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,2-Dichloroethane	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,2-Dichloropropane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
1,4-Dioxane	ND		280	41	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
2-Butanone	ND		11	2.2	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
4-Methyl-2-pentanone	ND		11	1.1	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Acetone	ND		22	6.7	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Acrylonitrile	ND		22	0.90	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Benzene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Bromoform	ND		11	5.6	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Bromomethane	ND		5.6	0.78	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Carbon disulfide	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Carbon tetrachloride	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Chlorobenzene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Chloroethane	ND		5.6	1.1	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Chloroform	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Chloromethane	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1

Client Sample ID: PAD-G-S-SE-0-0.5

Date Collected: 08/27/20 08:47
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-14

Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Dibromomethane	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Dichlorodifluoromethane	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Ethyl acetate	ND		5.6	1.1	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Ethyl ether	ND		5.6	1.1	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Ethyl methacrylate	ND		5.6	1.1	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Ethylbenzene	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Freon 113	ND		11	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Methacrylonitrile	ND		56	9.0	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Methyl iodide	ND		5.6	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Methyl methacrylate	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Methylene Chloride	ND		5.6	2.2	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Pentachloroethane	ND	*	5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Tetrachloroethene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Toluene	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
trans-1,2-Dichloroethene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
trans-1,3-Dichloropropene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Trichloroethene	ND		5.6	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Trichlorofluoromethane	ND		5.6	0.78	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Vinyl chloride	ND		5.6	0.67	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/28/20 08:18	09/04/20 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/28/20 08:18*	*09/04/20 00:32*	*1*
4-Bromofluorobenzene (Surr)	*79*		*50 - 131*	*08/28/20 08:18*	*09/04/20 00:32*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/28/20 08:18*	*09/04/20 00:32*	*1*
Toluene-d8 (Surr)	*109*		*52 - 141*	*08/28/20 08:18*	*09/04/20 00:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		410	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
1,2,4-Trichlorobenzene	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
1,2-Dichlorobenzene	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
1,3-Dichlorobenzene	ND		410	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
1,4-Dichlorobenzene	ND		410	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,2'-oxybis[1-chloropropane]	ND		480	220	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,4,5-Trichlorophenol	ND		740	330	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,4,6-Trichlorophenol	ND		630	300	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,4-Dichlorophenol	ND		480	220	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,4-Dimethylphenol	ND		740	330	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,4-Dinitrophenol	ND		11000	3700	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,4-Dinitrotoluene	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,6-Dichlorophenol	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2,6-Dinitrotoluene	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2-Acetylaminofluorene	ND		3700	1100	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2-Chloronaphthalene	ND		370	74	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2-Chlorophenol	ND		410	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
2-Methylphenol	ND		740	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
3-Methylcholanthrene	ND	*	630	300	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
4,4'-Methylene bis(2-chloroaniline)	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-S-SE-0-0.5
Date Collected: 08/27/20 08:47
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-14
Matrix: Solid
Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl-phenylether	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
4-Chloro-3-methylphenol	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
4-Chloroaniline	ND		1800	370	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
4-Methylphenol	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
4-Nitroaniline	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
4-Nitrophenol	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
5-Nitro-o-toluidine	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Acetophenone	ND		550	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Aniline	ND		5500	1800	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Anthracene	ND		180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Benzo[a]anthracene	**110**	**J**	180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Benzo[a]pyrene	**190**		180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Butylbenzylphthalate	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Chrysene	**230**		180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Di-n-butyl phthalate	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Di-n-octyl phthalate	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Dibenz(a,h)anthracene	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Diethyl phthalate	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Dimethyl phthalate	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Fluoranthene	**290**		180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Hexachlorobenzene	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Hexachlorobutadiene	ND		850	410	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Hexachlorocyclopentadiene	ND		5500	2200	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Hexachloroethane	ND		1800	370	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Hexachloropropene	ND		3700	1100	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Indeno[1,2,3-cd]pyrene	**210**		180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Isosafrole	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Methapyrilene	ND		55000	18000	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
N-Nitrosodi-n-propylamine	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
N-Nitrosodi-n-butylamine	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
N-Nitrosodiethylamine	ND		480	220	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
N-Nitrosopiperidine	ND		410	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
N-Nitrosopyrrolidine	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Naphthalene	ND		180	74	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Nitrobenzene	ND		740	300	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Pentachlorobenzene	ND		480	220	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Pentachloronitrobenzene	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Phenacetin	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Pentachlorophenol	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Phenanthrene	**160**	**J**	180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Phenol	ND		410	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Pronamide	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Pyrene	**270**		180	37	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Pyridine	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Safrole, Total	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Bis(2-chloroethoxy)methane	ND		410	180	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Bis(2-chloroethyl)ether	ND		550	260	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10
Bis(2-ethylhexyl) phthalate	ND		1800	740	ug/Kg	☼	09/03/20 09:00	09/05/20 16:46	10

Client Sample ID: PAD-G-S-SE-0-0.5

Date Collected: 08/27/20 08:47
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-14

Matrix: Solid
Percent Solids: 89.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*10 - 136*	*09/03/20 09:00*	*09/05/20 16:46*	*10*
2-Fluorobiphenyl (Surr)	*60*		*34 - 117*	*09/03/20 09:00*	*09/05/20 16:46*	*10*
2-Fluorophenol (Surr)	*58*		*18 - 115*	*09/03/20 09:00*	*09/05/20 16:46*	*10*
Nitrobenzene-d5 (Surr)	*50*		*23 - 115*	*09/03/20 09:00*	*09/05/20 16:46*	*10*
p-Terphenyl-d14 (Surr)	*60*		*35 - 135*	*09/03/20 09:00*	*09/05/20 16:46*	*10*
Phenol-d5 (Surr)	*61*		*21 - 112*	*09/03/20 09:00*	*09/05/20 16:46*	*10*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1100	230	ug/Kg	☼		09/08/20 21:37	1
Isobutanol (1C)	ND		1100	190	ug/Kg	☼		09/08/20 21:37	1
Methanol (2C)	ND		1100	230	ug/Kg	☼		09/08/20 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*120*		*10 - 179*		*09/08/20 21:37*	*1*
Acetone (2C)	*93*		*10 - 179*		*09/08/20 21:37*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		4.6	0.94	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
alpha-Chlordane (1C)	ND		4.6	0.94	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
beta-BHC (2C)	ND		5.6	2.4	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
delta-BHC (1C)	ND		5.6	2.5	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Endosulfan I (1C)	ND		4.6	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Endosulfan II (1C)	ND		13	6.1	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Endosulfan sulfate (1C)	ND		9.4	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Endrin (1C)	ND		9.4	3.8	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
gamma-BHC (Lindane) (1C)	ND		4.6	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
gamma-Chlordane (1C)	ND		4.6	1.4	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Heptachlor (1C)	ND		4.6	1.7	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Heptachlor epoxide (1C)	ND		4.6	0.94	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Methoxychlor (1C)	ND		37	10	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Toxaphene (1C)	ND		180	78	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
p,p'-DDD (1C)	ND		9.4	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
p,p'-DDE (1C)	ND		9.4	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
p,p'-DDT (2C)	ND		9.4	4.4	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5
Chlordane (n.o.s.) (1C)	ND		94	22	ug/Kg	☼	09/02/20 16:39	09/04/20 10:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*130*		*46 - 152*	*09/02/20 16:39*	*09/04/20 10:44*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*86*		*46 - 152*	*09/02/20 16:39*	*09/04/20 10:44*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*80*		*19 - 136*	*09/02/20 16:39*	*09/04/20 10:44*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*58*		*19 - 136*	*09/02/20 16:39*	*09/04/20 10:44*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND	*	1.9	0.84	ug/Kg	☼	09/10/20 19:40	09/15/20 04:50	1
2,4-D (1C)	ND	*	40	13	ug/Kg	☼	09/10/20 19:40	09/15/20 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*55*		*27 - 136*	*09/10/20 19:40*	*09/15/20 04:50*	*1*

Client Sample ID: PAD-G-S-SE-0-0.5

Date Collected: 08/27/20 08:47
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-14

Matrix: Solid
Percent Solids: 89.0

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*55*		*27 - 136*	*09/10/20 19:40*	*09/15/20 04:50*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		280	56	ug/Kg	☼	09/03/20 23:52	09/09/20 09:05	20
Carbofuran	ND		280	56	ug/Kg	☼	09/03/20 23:52	09/09/20 09:05	20
Methiocarb	ND		280	56	ug/Kg	☼	09/03/20 23:52	09/09/20 09:05	20
Methomyl	ND		280	56	ug/Kg	☼	09/03/20 23:52	09/09/20 09:05	20
Oxamyl	ND		280	56	ug/Kg	☼	09/03/20 23:52	09/09/20 09:05	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*40*		*27 - 131*	*09/03/20 23:52*	*09/09/20 09:05*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.8**		0.62	0.21	mg/Kg	☼	08/31/20 08:21	09/15/20 17:53	2
Barium	**120**		0.62	0.28	mg/Kg	☼	08/31/20 08:21	09/15/20 17:53	2
Cadmium	**0.97**		0.15	0.078	mg/Kg	☼	08/31/20 08:21	09/15/20 17:53	2
Calcium	**19000**		310	120	mg/Kg	☼	08/31/20 08:21	09/22/20 18:26	10
Chromium	**70**		0.62	0.24	mg/Kg	☼	08/31/20 08:21	09/15/20 17:53	2
Lead	**31**		0.31	0.078	mg/Kg	☼	08/31/20 08:21	09/26/20 12:51	2
Nickel	**84**		0.62	0.25	mg/Kg	☼	08/31/20 08:21	09/15/20 17:53	2
Selenium	**0.29**	**J**	0.62	0.20	mg/Kg	☼	08/31/20 08:21	09/15/20 17:53	2
Silver	**9.4**		0.15	0.063	mg/Kg	☼	08/31/20 08:21	09/15/20 17:53	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**	**J**	0.063	0.026	mg/Kg	☼	08/31/20 09:31	09/01/20 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	**0.61**		0.56	0.20	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	**0.61**		0.55	0.20	mg/Kg	☼	09/01/20 06:05	09/01/20 11:29	1
Percent Moisture	**11.0**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**89.0**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-G-S-CTR-0-0.5

Date Collected: 08/27/20 09:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-15

Matrix: Solid
Percent Solids: 86.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,1,1-Trichloroethane	ND		7.1	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,1,2,2-Tetrachloroethane	ND	*3	7.1	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,1,2-Trichloroethane	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,1-Dichloroethane	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,1-Dichloroethene	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,2,4-Trichlorobenzene	ND	*3	14	7.1	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-S-CTR-0-0.5
Date Collected: 08/27/20 09:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-15
Matrix: Solid
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	*3	7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,2-Dibromoethane	ND		7.1	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,2-Dichloroethane	ND		7.1	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,2-Dichloropropane	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
1,4-Dioxane	ND		350	52	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
2-Butanone	ND		14	2.8	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
4-Methyl-2-pentanone	ND		14	1.4	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Acetone	**160**		28	8.5	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Acrylonitrile	ND		28	1.1	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Benzene	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Bromoform	ND		14	7.1	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Bromomethane	ND		7.1	0.99	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Carbon disulfide	ND		7.1	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Carbon tetrachloride	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Chlorobenzene	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Chloroethane	ND		7.1	1.4	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Chloroform	ND		7.1	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Chloromethane	ND		7.1	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
cis-1,3-Dichloropropene	ND		7.1	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Dibromomethane	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Dichlorodifluoromethane	ND		7.1	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Ethyl acetate	ND		7.1	1.4	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Ethyl ether	ND		7.1	1.4	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Ethyl methacrylate	ND		7.1	1.4	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Ethylbenzene	ND		7.1	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Freon 113	ND		14	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Methacrylonitrile	ND		71	11	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Methyl iodide	ND		7.1	0.56	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Methyl methacrylate	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Methylene Chloride	ND		7.1	2.8	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Pentachloroethane	ND	* *3	7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Tetrachloroethene	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Toluene	ND		7.1	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
trans-1,2-Dichloroethene	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
trans-1,3-Dichloropropene	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Trichloroethene	ND		7.1	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Trichlorofluoromethane	ND		7.1	0.99	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Vinyl chloride	ND		7.1	0.85	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1
Xylenes, Total	ND		14	2.0	ug/Kg	☼	08/28/20 08:18	09/04/20 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*08/28/20 08:18*	*09/04/20 00:54*	*1*
4-Bromofluorobenzene (Surr)	*65*		*50 - 131*	*08/28/20 08:18*	*09/04/20 00:54*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/28/20 08:18*	*09/04/20 00:54*	*1*
Toluene-d8 (Surr)	*119*		*52 - 141*	*08/28/20 08:18*	*09/04/20 00:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		420	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
1,2,4-Trichlorobenzene	ND		580	270	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-S-CTR-0-0.5
Date Collected: 08/27/20 09:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-15
Matrix: Solid
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
1,3-Dichlorobenzene	ND		420	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
1,4-Dichlorobenzene	ND		420	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,2'-oxybis[1-chloropropane]	ND		500	230	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,4,5-Trichlorophenol	ND		770	350	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,4,6-Trichlorophenol	ND		650	310	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,4-Dichlorophenol	ND		500	230	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,4-Dimethylphenol	ND		770	350	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,4-Dinitrophenol	ND		12000	3800	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,4-Dinitrotoluene	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,6-Dichlorophenol	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2,6-Dinitrotoluene	ND		580	270	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2-Acetylaminofluorene	ND		3800	1200	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2-Chloronaphthalene	ND		380	77	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2-Chlorophenol	ND		420	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
2-Methylphenol	ND		770	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
3-Methylcholanthrene	ND	*	650	310	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
4,4'-Methylene bis(2-chloroaniline)	ND		5800	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
4-Bromophenyl-phenylether	ND		580	270	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
4-Chloro-3-methylphenol	ND		580	270	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
4-Chloroaniline	ND		1900	380	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
4-Methylphenol	ND		580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
4-Nitroaniline	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
4-Nitrophenol	ND		5800	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
5-Nitro-o-toluidine	ND		5800	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Acetophenone	**190**	**J**	580	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Aniline	ND		5800	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Anthracene	**77**	**J**	190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Benzo[a]anthracene	**190**		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Benzo[a]pyrene	**260**		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Butylbenzylphthalate	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Chrysene	**350**		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Di-n-butyl phthalate	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Di-n-octyl phthalate	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Dibenz(a,h)anthracene	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Diethyl phthalate	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Dimethyl phthalate	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Fluoranthene	**510**		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Hexachlorobenzene	ND		190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Hexachlorobutadiene	ND		880	420	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Hexachlorocyclopentadiene	ND		5800	2300	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Hexachloroethane	ND		1900	380	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Hexachloropropene	ND		3800	1200	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Indeno[1,2,3-cd]pyrene	**270**		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Isosafrole	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Methapyrilene	ND		58000	19000	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
N-Nitrosodi-n-propylamine	ND		580	270	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
N-Nitrosodi-n-butylamine	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
N-Nitrosodiethylamine	ND		500	230	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-S-CTR-0-0.5
Date Collected: 08/27/20 09:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-15
Matrix: Solid
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopiperidine	ND		420	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
N-Nitrosopyrrolidine	ND		580	270	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Naphthalene	**180**	**J**	190	77	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Nitrobenzene	ND		770	310	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Pentachlorobenzene	ND		500	230	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Pentachloronitrobenzene	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Phenacetin	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Pentachlorophenol	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Phenanthrene	**320**		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Phenol	ND		420	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Pronamide	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Pyrene	**450**		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Pyridine	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Safrole, Total	ND		1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Bis(2-chloroethoxy)methane	ND		420	190	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Bis(2-chloroethyl)ether	ND		580	270	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10
Bis(2-ethylhexyl) phthalate	**870**	**J**	1900	770	ug/Kg	☼	09/03/20 09:00	09/05/20 17:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*43*		*10 - 136*	*09/03/20 09:00*	*09/05/20 17:09*	*10*
2-Fluorobiphenyl (Surr)	*56*		*34 - 117*	*09/03/20 09:00*	*09/05/20 17:09*	*10*
2-Fluorophenol (Surr)	*57*		*18 - 115*	*09/03/20 09:00*	*09/05/20 17:09*	*10*
Nitrobenzene-d5 (Surr)	*49*		*23 - 115*	*09/03/20 09:00*	*09/05/20 17:09*	*10*
p-Terphenyl-d14 (Surr)	*57*		*35 - 135*	*09/03/20 09:00*	*09/05/20 17:09*	*10*
Phenol-d5 (Surr)	*60*		*21 - 112*	*09/03/20 09:00*	*09/05/20 17:09*	*10*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	230	ug/Kg	☼		09/08/20 21:54	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/08/20 21:54	1
Methanol (2C)	ND		1200	230	ug/Kg	☼		09/08/20 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*114*		*10 - 179*		*09/08/20 21:54*	*1*
Acetone (2C)	*90*		*10 - 179*		*09/08/20 21:54*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		4.7	0.97	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
alpha-Chlordane (2C)	ND		4.7	0.97	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
beta-BHC (2C)	ND		5.7	2.5	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
delta-BHC (1C)	ND		5.7	2.6	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
Endosulfan I (1C)	ND		4.7	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
Endosulfan II (1C)	ND		13	6.3	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
Endosulfan sulfate (1C)	ND		9.7	1.9	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
Endrin (1C)	ND		9.7	3.9	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
gamma-BHC (Lindane) (2C)	ND		4.7	1.2	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
gamma-Chlordane (1C)	ND		4.7	1.4	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
Heptachlor (1C)	ND		4.7	1.8	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
Heptachlor epoxide (1C)	ND		4.7	0.97	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5

Client Sample ID: PAD-G-S-CTR-0-0.5

Date Collected: 08/27/20 09:10
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-15

Matrix: Solid
Percent Solids: 86.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor (1C)	ND		38	10	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
Toxaphene (1C)	ND		190	80	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
p,p'-DDD (1C)	ND		9.7	1.9	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
p,p'-DDE (2C)	ND		9.7	1.9	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
p,p'-DDT (2C)	ND		9.7	4.5	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5
Chlordane (n.o.s.) (1C)	ND		97	23	ug/Kg	☼	09/02/20 16:39	09/04/20 10:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*165*	*X*	*46 - 152*	*09/02/20 16:39*	*09/04/20 10:55*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*83*		*46 - 152*	*09/02/20 16:39*	*09/04/20 10:55*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*87*		*19 - 136*	*09/02/20 16:39*	*09/04/20 10:55*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*62*		*19 - 136*	*09/02/20 16:39*	*09/04/20 10:55*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (2C)	ND	*	1.9	0.86	ug/Kg	☼	09/10/20 19:40	09/15/20 05:23	1
2,4-D (1C)	ND	*	41	14	ug/Kg	☼	09/10/20 19:40	09/15/20 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*46*		*27 - 136*	*09/10/20 19:40*	*09/15/20 05:23*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*50*		*27 - 136*	*09/10/20 19:40*	*09/15/20 05:23*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 09:55	20
Carbofuran	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 09:55	20
Methiocarb	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 09:55	20
Methomyl	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 09:55	20
Oxamyl	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 09:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*36*		*27 - 131*	*09/03/20 23:52*	*09/09/20 09:55*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		0.91	0.30	mg/Kg	☼	08/31/20 08:21	09/15/20 17:40	2
Barium	**180**		0.91	0.41	mg/Kg	☼	08/31/20 08:21	09/15/20 17:40	2
Cadmium	**0.76**		0.23	0.11	mg/Kg	☼	08/31/20 08:21	09/15/20 17:40	2
Calcium	**20000**		230	85	mg/Kg	☼	08/31/20 08:21	09/22/20 18:13	5
Chromium	**79**		0.91	0.35	mg/Kg	☼	08/31/20 08:21	09/15/20 17:40	2
Lead	**33**		0.45	0.11	mg/Kg	☼	08/31/20 08:21	09/26/20 12:45	2
Nickel	**77**		0.91	0.37	mg/Kg	☼	08/31/20 08:21	09/15/20 17:40	2
Selenium	ND		0.91	0.30	mg/Kg	☼	08/31/20 08:21	09/15/20 17:40	2
Silver	**13**		0.23	0.092	mg/Kg	☼	08/31/20 08:21	09/15/20 17:40	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**	**J**	0.068	0.028	mg/Kg	☼	08/31/20 09:31	09/01/20 14:42	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-S-CTR-0-0.5

Lab Sample ID: 410-12176-15
Date Collected: 08/27/20 09:10
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 86.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.58	0.21	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.61	0.22	mg/Kg	☼	09/09/20 16:05	09/09/20 23:01	1
Percent Moisture	**13.5**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**86.5**		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-G-S-SW-0-0.5

Lab Sample ID: 410-12176-16
Date Collected: 08/27/20 09:30
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 84.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,1,1-Trichloroethane	ND		5.0	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.40	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,1-Dichloroethane	ND	F1	5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,1-Dichloroethene	ND	F1	5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,2,4-Trichlorobenzene	ND		10	5.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,2-Dichloropropane	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
1,4-Dioxane	ND	F1	250	37	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
2-Butanone	ND		10	2.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
4-Methyl-2-pentanone	**1.3**	**J**	10	1.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Acetone	**140**	**F2 F1**	20	6.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Acrylonitrile	ND		20	0.81	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Benzene	ND	F1	5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Bromoform	ND		10	5.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Bromomethane	ND		5.0	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Carbon disulfide	ND		5.0	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Chlorobenzene	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Chloroethane	ND		5.0	1.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Chloroform	ND	F1	5.0	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Chloromethane	ND		5.0	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
cis-1,3-Dichloropropene	ND		5.0	0.40	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Dibromomethane	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Dichlorodifluoromethane	ND		5.0	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Ethyl acetate	ND		5.0	1.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Ethyl ether	ND		5.0	1.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Ethyl methacrylate	ND	F1	5.0	1.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Ethylbenzene	ND		5.0	0.40	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Freon 113	ND		10	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Methacrylonitrile	ND		50	8.1	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Methyl iodide	ND		5.0	0.40	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Methyl methacrylate	ND	F1	5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Methylene Chloride	ND	F1	5.0	2.0	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Pentachloroethane	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Tetrachloroethene	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-S-SW-0-0.5

Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-16

Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
trans-1,2-Dichloroethene	ND	F1	5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Trichloroethene	ND	F1	5.0	0.50	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Trichlorofluoromethane	ND		5.0	0.71	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Vinyl chloride	ND		5.0	0.60	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/28/20 08:18	09/04/20 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*	*08/28/20 08:18*	*09/04/20 01:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*08/28/20 08:18*	*09/04/20 01:17*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/28/20 08:18*	*09/04/20 01:17*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/28/20 08:18*	*09/04/20 01:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		43	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
1,2,4-Trichlorobenzene	ND		59	27	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
1,2-Dichlorobenzene	ND		59	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
1,3-Dichlorobenzene	ND		43	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
1,4-Dichlorobenzene	ND		43	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,2'-oxybis[1-chloropropane]	ND		51	23	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,4,5-Trichlorophenol	ND	F1	78	35	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,4,6-Trichlorophenol	ND	F2 F1	67	31	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,4-Dichlorophenol	ND		51	23	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,4-Dimethylphenol	ND		78	35	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,4-Dinitrophenol	ND	F2 F1	1200	390	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,4-Dinitrotoluene	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,6-Dichlorophenol	ND		59	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2,6-Dinitrotoluene	ND		59	27	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2-Acetylaminofluorene	ND		390	120	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2-Chloronaphthalene	ND		39	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2-Chlorophenol	ND		43	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
2-Methylphenol	ND		78	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
3-Methylcholanthrene	ND	*	67	31	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
4,4'-Methylene bis(2-chloroaniline)	ND		590	200	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
4-Bromophenyl-phenylether	ND		59	27	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
4-Chloro-3-methylphenol	ND		59	27	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
4-Chloroaniline	ND		200	39	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
4-Methylphenol	ND		59	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
4-Nitroaniline	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
4-Nitrophenol	ND	F1	590	200	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
5-Nitro-o-toluidine	ND		590	200	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Acetophenone	ND		59	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Aniline	ND	F1	590	200	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Anthracene	**7.0**	**J**	20	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Benzo[a]anthracene	**28**	**F1**	20	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Benzo[a]pyrene	**28**		20	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Butylbenzylphthalate	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Chrysene	**31**		20	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1

Client Sample ID: PAD-G-S-SW-0-0.5

Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-16

Matrix: Solid
Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Di-n-octyl phthalate	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Dibenz(a,h)anthracene	**9.3**	**J**	20	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Diethyl phthalate	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Dimethyl phthalate	ND	F1	200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Fluoranthene	**44**		20	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Hexachlorobenzene	ND		20	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Hexachlorobutadiene	ND		90	43	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Hexachlorocyclopentadiene	ND	F1	590	230	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Hexachloroethane	ND	F2 F1	200	39	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Hexachloropropene	ND		390	120	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Indeno[1,2,3-cd]pyrene	**25**		20	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Isosafrole	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Methapyrilene	ND		5900	2000	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
N-Nitrosodi-n-propylamine	ND		59	27	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
N-Nitrosodi-n-butylamine	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
N-Nitrosodiethylamine	ND		51	23	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
N-Nitrosopiperidine	ND		43	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
N-Nitrosopyrrolidine	ND		59	27	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Naphthalene	ND		20	7.8	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Nitrobenzene	ND		78	31	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Pentachlorobenzene	ND		51	23	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Pentachloronitrobenzene	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Phenacetin	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Pentachlorophenol	ND	F2 F1	200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Phenanthrene	**26**		20	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Phenol	ND		43	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Pronamide	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Pyrene	**41**		20	3.9	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Pyridine	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Safrole, Total	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Bis(2-chloroethoxy)methane	ND		43	20	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Bis(2-chloroethyl)ether	ND		59	27	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1
Bis(2-ethylhexyl) phthalate	ND		200	78	ug/Kg	☼	09/03/20 09:00	09/05/20 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*39*		*10 - 136*	*09/03/20 09:00*	*09/05/20 17:33*	*1*
2-Fluorobiphenyl (Surr)	*79*		*34 - 117*	*09/03/20 09:00*	*09/05/20 17:33*	*1*
2-Fluorophenol (Surr)	*71*		*18 - 115*	*09/03/20 09:00*	*09/05/20 17:33*	*1*
Nitrobenzene-d5 (Surr)	*70*		*23 - 115*	*09/03/20 09:00*	*09/05/20 17:33*	*1*
p-Terphenyl-d14 (Surr)	*82*		*35 - 135*	*09/03/20 09:00*	*09/05/20 17:33*	*1*
Phenol-d5 (Surr)	*74*		*21 - 112*	*09/03/20 09:00*	*09/05/20 17:33*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	240	ug/Kg	☼		09/08/20 22:43	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/08/20 22:43	1
Methanol (2C)	ND		1200	240	ug/Kg	☼		09/08/20 22:43	1

Client Sample ID: PAD-G-S-SW-0-0.5
Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-16
Matrix: Solid
Percent Solids: 84.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetone (1C)	115		10 - 179		09/08/20 22:43	1
Acetone (2C)	92		10 - 179		09/08/20 22:43	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.97	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
alpha-Chlordane (2C)	**3.4**	**F1**	0.97	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
beta-BHC (2C)	ND	F1	1.2	0.52	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
delta-BHC (1C)	ND	F1	1.2	0.53	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Endosulfan I (1C)	ND	F1	0.97	0.26	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Endosulfan II (1C)	ND	F1	2.7	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Endosulfan sulfate (1C)	ND		2.0	0.39	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Endrin (1C)	ND	F1	2.0	0.80	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
gamma-BHC (Lindane) (1C)	ND	F1	0.97	0.25	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
gamma-Chlordane (1C)	**3.8**	**F1**	0.97	0.29	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Heptachlor (1C)	ND		0.97	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Heptachlor epoxide (1C)	**0.96**	**J F1**	0.97	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Methoxychlor (1C)	ND		7.9	2.1	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Toxaphene (1C)	ND		39	16	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
p,p'-DDD (1C)	ND	F1	2.0	0.39	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
p,p'-DDE (1C)	ND		2.0	0.39	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
p,p'-DDT (1C)	ND		2.0	0.93	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1
Chlordane (n.o.s.) (1C)	**25**		20	4.7	ug/Kg	☼	09/02/20 16:39	09/04/20 11:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	89		46 - 152	09/02/20 16:39	09/04/20 11:05	1
DCB Decachlorobiphenyl (Surr) (2C)	79		46 - 152	09/02/20 16:39	09/04/20 11:05	1
Tetrachloro-m-xylene (Surr) (1C)	83		19 - 136	09/02/20 16:39	09/04/20 11:05	1
Tetrachloro-m-xylene (Surr) (2C)	66		19 - 136	09/02/20 16:39	09/04/20 11:05	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	F2 F1 *	2.0	0.89	ug/Kg	☼	09/10/20 19:40	09/15/20 07:03	1
2,4-D (1C)	ND	F2 F1 *	43	14	ug/Kg	☼	09/10/20 19:40	09/15/20 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	52		27 - 136	09/10/20 19:40	09/15/20 07:03	1
2,4-Dichlorophenylacetic acid (Surr) (2C)	50		27 - 136	09/10/20 19:40	09/15/20 07:03	1

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		290	59	ug/Kg	☼	09/03/20 23:52	09/09/20 10:44	20
Carbofuran	ND		290	59	ug/Kg	☼	09/03/20 23:52	09/09/20 10:44	20
Methiocarb	ND		290	59	ug/Kg	☼	09/03/20 23:52	09/09/20 10:44	20
Methomyl	ND		290	59	ug/Kg	☼	09/03/20 23:52	09/09/20 10:44	20
Oxamyl	ND		290	59	ug/Kg	☼	09/03/20 23:52	09/09/20 10:44	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	37		27 - 131	09/03/20 23:52	09/09/20 10:44	20

Client Sample ID: PAD-G-S-SW-0-0.5

Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-16

Matrix: Solid
Percent Solids: 84.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8	F1	0.72	0.24	mg/Kg	☼	08/31/20 08:21	09/22/20 17:44	2
Barium	67		0.72	0.33	mg/Kg	☼	08/31/20 08:21	09/22/20 17:44	2
Cadmium	0.66		0.18	0.091	mg/Kg	☼	08/31/20 08:21	09/22/20 17:44	2
Calcium	11000		180	68	mg/Kg	☼	08/31/20 08:21	09/22/20 17:46	5
Chromium	52		1.8	0.70	mg/Kg	☼	08/31/20 08:21	09/24/20 16:29	5
Lead	16	F2	0.36	0.091	mg/Kg	☼	08/31/20 08:21	09/22/20 17:44	2
Nickel	20	F1	1.8	0.74	mg/Kg	☼	08/31/20 08:21	09/24/20 16:29	5
Selenium	0.28	J	0.72	0.24	mg/Kg	☼	08/31/20 08:21	09/24/20 16:27	2
Silver	0.49		0.18	0.073	mg/Kg	☼	08/31/20 08:21	09/22/20 17:44	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.066	0.027	mg/Kg	☼	08/31/20 09:31	09/01/20 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.44	J	0.59	0.21	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	0.44	J F1	0.58	0.21	mg/Kg	☼	09/09/20 16:05	09/09/20 22:57	1
Percent Moisture	15.6		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	84.4		1.0	1.0	%			08/29/20 13:00	1

Client Sample ID: PAD-G-S-SW-0-0.5DUP

Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-17

Matrix: Solid
Percent Solids: 85.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,1,1-Trichloroethane	ND		4.5	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.36	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,1,2-Trichloroethane	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,1-Dichloroethane	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,1-Dichloroethene	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,2,4-Trichlorobenzene	ND		9.1	4.5	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,2-Dibromo-3-Chloropropane	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,2-Dibromoethane	ND		4.5	0.36	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,2-Dichloroethane	ND		4.5	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,2-Dichloropropane	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
1,4-Dioxane	ND		230	34	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
2-Butanone	ND		9.1	1.8	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
4-Methyl-2-pentanone	ND		9.1	0.91	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Acetone	46		18	5.4	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Acrylonitrile	ND		18	0.72	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Benzene	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Bromoform	ND		9.1	4.5	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Bromomethane	ND		4.5	0.63	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Carbon disulfide	ND		4.5	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Carbon tetrachloride	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Chlorobenzene	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Chloroethane	ND		4.5	0.91	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1

Client Sample ID: PAD-G-S-SW-0-0.5DUP
Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-17
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		4.5	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Chloromethane	ND		4.5	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
cis-1,3-Dichloropropene	ND		4.5	0.36	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Dibromomethane	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Dichlorodifluoromethane	ND		4.5	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Ethyl acetate	ND		4.5	0.91	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Ethyl ether	ND		4.5	0.91	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Ethyl methacrylate	ND		4.5	0.91	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Ethylbenzene	ND		4.5	0.36	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Freon 113	ND		9.1	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Methacrylonitrile	ND		45	7.2	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Methyl iodide	ND		4.5	0.36	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Methyl methacrylate	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Methylene Chloride	ND		4.5	1.8	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Pentachloroethane	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Tetrachloroethene	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Toluene	ND		4.5	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
trans-1,2-Dichloroethene	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
trans-1,3-Dichloropropene	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Trichloroethene	ND		4.5	0.45	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Trichlorofluoromethane	ND		4.5	0.63	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Vinyl chloride	ND		4.5	0.54	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1
Xylenes, Total	ND		9.1	1.3	ug/Kg	☼	08/28/20 08:18	09/04/20 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*08/28/20 08:18*	*09/04/20 15:25*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*08/28/20 08:18*	*09/04/20 15:25*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/28/20 08:18*	*09/04/20 15:25*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/28/20 08:18*	*09/04/20 15:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		210	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
1,2,4-Trichlorobenzene	ND		290	130	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
1,2-Dichlorobenzene	ND		290	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
1,3-Dichlorobenzene	ND		210	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
1,4-Dichlorobenzene	ND		210	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,2'-oxybis[1-chloropropane]	ND		250	120	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,4,5-Trichlorophenol	ND		380	170	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,4,6-Trichlorophenol	ND		330	150	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,4-Dichlorophenol	ND		250	120	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,4-Dimethylphenol	ND		380	170	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,4-Dinitrophenol	ND		5800	1900	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,4-Dinitrotoluene	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,6-Dichlorophenol	ND		290	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2,6-Dinitrotoluene	ND		290	130	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2-Acetylaminofluorene	ND		1900	580	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2-Chloronaphthalene	ND		190	38	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2-Chlorophenol	ND		210	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
2-Methylphenol	ND		380	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-S-SW-0-0.5DUP
Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-17
Matrix: Solid
Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylcholanthrene	ND	*	330	150	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
4,4'-Methylene bis(2-chloroaniline)	ND		2900	960	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
4-Bromophenyl-phenylether	ND		290	130	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
4-Chloro-3-methylphenol	ND		290	130	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
4-Chloroaniline	ND		960	190	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
4-Methylphenol	ND		290	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
4-Nitroaniline	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
4-Nitrophenol	ND		2900	960	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
5-Nitro-o-toluidine	ND		2900	960	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Acetophenone	ND		290	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Aniline	ND		2900	960	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Anthracene	**27**	**J**	96	19	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Benzo[a]anthracene	**64**	**J**	96	38	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Benzo[a]pyrene	**82**	**J**	96	19	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Butylbenzylphthalate	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Chrysene	**81**	**J**	96	19	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Di-n-butyl phthalate	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Di-n-octyl phthalate	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Dibenz(a,h)anthracene	ND		96	38	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Diethyl phthalate	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Dimethyl phthalate	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Fluoranthene	**110**		96	19	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Hexachlorobenzene	ND		96	38	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Hexachlorobutadiene	ND		440	210	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Hexachlorocyclopentadiene	ND		2900	1200	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Hexachloroethane	ND		960	190	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Hexachloropropene	ND		1900	580	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Indeno[1,2,3-cd]pyrene	**89**	**J**	96	19	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Isosafrole	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Methapyrilene	ND		29000	9600	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
N-Nitrosodi-n-propylamine	ND		290	130	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
N-Nitrosodi-n-butylamine	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
N-Nitrosodiethylamine	ND		250	120	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
N-Nitrosopiperidine	ND		210	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
N-Nitrosopyrrolidine	ND		290	130	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Naphthalene	ND		96	38	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Nitrobenzene	ND		380	150	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Pentachlorobenzene	ND		250	120	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Pentachloronitrobenzene	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Phenacetin	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Pentachlorophenol	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Phenanthrene	**59**	**J**	96	19	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Phenol	ND		210	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Pronamide	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Pyrene	**97**		96	19	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Pyridine	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Safrole, Total	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Bis(2-chloroethoxy)methane	ND		210	96	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5
Bis(2-chloroethyl)ether	ND		290	130	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-G-S-SW-0-0.5DUP

Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-17

Matrix: Solid
Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		960	380	ug/Kg	☼	09/03/20 09:00	09/05/20 18:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 136*	*09/03/20 09:00*	*09/05/20 18:42*	*5*
2-Fluorobiphenyl (Surr)	*73*		*34 - 117*	*09/03/20 09:00*	*09/05/20 18:42*	*5*
2-Fluorophenol (Surr)	*67*		*18 - 115*	*09/03/20 09:00*	*09/05/20 18:42*	*5*
Nitrobenzene-d5 (Surr)	*64*		*23 - 115*	*09/03/20 09:00*	*09/05/20 18:42*	*5*
p-Terphenyl-d14 (Surr)	*75*		*35 - 135*	*09/03/20 09:00*	*09/05/20 18:42*	*5*
Phenol-d5 (Surr)	*72*		*21 - 112*	*09/03/20 09:00*	*09/05/20 18:42*	*5*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1200	230	ug/Kg	☼		09/08/20 23:33	1
Isobutanol (1C)	ND		1200	200	ug/Kg	☼		09/08/20 23:33	1
Methanol (2C)	ND		1200	230	ug/Kg	☼		09/08/20 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*116*		*10 - 179*		*09/08/20 23:33*	*1*
Acetone (2C)	*96*		*10 - 179*		*09/08/20 23:33*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.97	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
beta-BHC (2C)	ND		1.2	0.51	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
delta-BHC (1C)	ND		1.2	0.52	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Endosulfan I (1C)	**0.59**	**J p**	0.97	0.26	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Endosulfan II (1C)	ND		2.7	1.3	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Endosulfan sulfate (1C)	ND		2.0	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Endrin (1C)	ND		2.0	0.79	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
gamma-BHC (Lindane) (1C)	ND		0.97	0.24	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Heptachlor (1C)	ND		0.97	0.36	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Heptachlor epoxide (1C)	**1.7**		0.97	0.20	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Methoxychlor (1C)	ND		7.8	2.1	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Toxaphene (1C)	ND		38	16	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
p,p'-DDD (1C)	ND		2.0	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
p,p'-DDE (1C)	**0.71**	**J**	2.0	0.38	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
p,p'-DDT (2C)	ND		2.0	0.92	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1
Chlordane (n.o.s.) (1C)	**62**		20	4.7	ug/Kg	☼	09/02/20 16:39	09/04/20 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*104*		*46 - 152*	*09/02/20 16:39*	*09/04/20 11:37*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*131*		*46 - 152*	*09/02/20 16:39*	*09/04/20 11:37*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*92*		*19 - 136*	*09/02/20 16:39*	*09/04/20 11:37*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*73*		*19 - 136*	*09/02/20 16:39*	*09/04/20 11:37*	*1*

Method: 8081B - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane (2C)	**9.6**		4.8	0.99	ug/Kg	☼	09/02/20 16:39	09/04/20 11:48	5
gamma-Chlordane (1C)	**10**		4.8	1.5	ug/Kg	☼	09/02/20 16:39	09/04/20 11:48	5

Client Sample ID: PAD-G-S-SW-0-0.5DUP

Date Collected: 08/27/20 09:30
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-17

Matrix: Solid
Percent Solids: 85.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*99*		*46 - 152*	*09/02/20 16:39*	*09/04/20 11:48*	*5*
DCB Decachlorobiphenyl (Surr) (2C)	*121*		*46 - 152*	*09/02/20 16:39*	*09/04/20 11:48*	*5*
Tetrachloro-m-xylene (Surr) (1C)	*97*		*19 - 136*	*09/02/20 16:39*	*09/04/20 11:48*	*5*
Tetrachloro-m-xylene (Surr) (2C)	*76*		*19 - 136*	*09/02/20 16:39*	*09/04/20 11:48*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	2.0	0.86	ug/Kg	☼	09/10/20 19:40	09/15/20 08:45	1
2,4-D (1C)	ND	*	41	14	ug/Kg	☼	09/10/20 19:40	09/15/20 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*51*		*27 - 136*	*09/10/20 19:40*	*09/15/20 08:45*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*50*		*27 - 136*	*09/10/20 19:40*	*09/15/20 08:45*	*1*

Method: 8318 - Carbamate (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 11:33	20
Carbofuran	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 11:33	20
Methiocarb	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 11:33	20
Methomyl	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 11:33	20
Oxamyl	ND		290	58	ug/Kg	☼	09/03/20 23:52	09/09/20 11:33	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*34*		*27 - 131*	*09/03/20 23:52*	*09/09/20 11:33*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		0.65	0.22	mg/Kg	☼	08/31/20 08:21	09/15/20 17:51	2
Barium	**92**		0.65	0.30	mg/Kg	☼	08/31/20 08:21	09/15/20 17:51	2
Cadmium	**0.63**		0.16	0.082	mg/Kg	☼	08/31/20 08:21	09/15/20 17:51	2
Calcium	**9400**		160	61	mg/Kg	☼	08/31/20 08:21	09/22/20 18:20	5
Chromium	**39**		0.65	0.25	mg/Kg	☼	08/31/20 08:21	09/15/20 17:51	2
Lead	**26**		0.32	0.082	mg/Kg	☼	08/31/20 08:21	09/15/20 17:51	2
Nickel	**18**		0.65	0.26	mg/Kg	☼	08/31/20 08:21	09/15/20 17:51	2
Selenium	**0.24**	**J**	0.65	0.21	mg/Kg	☼	08/31/20 08:21	09/15/20 17:51	2
Silver	**0.24**		0.16	0.066	mg/Kg	☼	08/31/20 08:21	09/15/20 17:51	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.065	0.027	mg/Kg	☼	08/31/20 09:31	09/01/20 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.58	0.21	mg/Kg	☼		09/10/20 00:47	1
Cyanide, Total	ND		0.58	0.21	mg/Kg	☼	09/09/20 16:05	09/09/20 23:02	1
Percent Moisture	**14.5**		1.0	1.0	%			08/29/20 13:00	1
Percent Solids	**85.5**		1.0	1.0	%			08/29/20 13:00	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-EB1-082720

Date Collected: 08/27/20 13:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-18

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			09/08/20 14:03	1
Acrylonitrile	ND		20	0.30	ug/L			09/08/20 14:03	1
Benzene	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Bromoform	ND		4.0	1.0	ug/L			09/08/20 14:03	1
Bromomethane	ND		1.0	0.30	ug/L			09/08/20 14:03	1
2-Butanone	ND		10	0.30	ug/L			09/08/20 14:03	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/08/20 14:03	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Chloroethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Chloroform	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Chloromethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/20 14:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/08/20 14:03	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Dibromomethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/08/20 14:03	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/08/20 14:03	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
1,4-Dioxane	ND		250	29	ug/L			09/08/20 14:03	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/08/20 14:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/08/20 14:03	1
Ethyl ether	ND		5.0	0.20	ug/L			09/08/20 14:03	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/08/20 14:03	1
Freon 113	ND		10	0.20	ug/L			09/08/20 14:03	1
Methacrylonitrile	ND		50	6.0	ug/L			09/08/20 14:03	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/08/20 14:03	1
Methyl iodide	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/08/20 14:03	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/08/20 14:03	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/08/20 14:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Toluene	ND		1.0	0.20	ug/L			09/08/20 14:03	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/08/20 14:03	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/20 14:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/08/20 14:03	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/08/20 14:03	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Trichloroethene	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/08/20 14:03	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/08/20 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/08/20 14:03*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/08/20 14:03*	*1*

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-EB1-082720

Date Collected: 08/27/20 13:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-18

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/08/20 14:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/08/20 14:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	4.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
2-Acetylaminofluorene	ND		22	10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Aniline	ND		10	3.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
Anthracene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Benzo[a]anthracene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Benzo[a]pyrene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Bis(2-chloroethoxy)methane	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Bis(2-chloroethyl)ether	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Bis(2-ethylhexyl) phthalate	ND		11	5.2	ug/L		09/03/20 09:30	09/12/20 21:19	1
4-Bromophenyl-phenylether	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Butylbenzylphthalate	ND		5.2	2.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
4-Chloroaniline	ND		10	4.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
4-Chloro-3-methylphenol	ND		3.6	1.7	ug/L		09/03/20 09:30	09/12/20 21:19	1
2-Chloronaphthalene	ND		1.0	0.41	ug/L		09/03/20 09:30	09/12/20 21:19	1
2-Chlorophenol	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Chrysene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Dibenz(a,h)anthracene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
1,2-Dichlorobenzene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
1,3-Dichlorobenzene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
1,4-Dichlorobenzene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,4-Dichlorophenol	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,6-Dichlorophenol	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Diethyl phthalate	ND		5.2	2.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,4-Dimethylphenol	ND		10	3.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
Dimethyl phthalate	ND		5.2	2.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
Di-n-butyl phthalate	ND		5.2	2.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,4-Dinitrophenol	ND		31	15	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,4-Dinitrotoluene	ND		5.2	1.0	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,6-Dinitrotoluene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Di-n-octyl phthalate	ND		11	5.2	ug/L		09/03/20 09:30	09/12/20 21:19	1
Fluoranthene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Hexachlorobenzene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Hexachlorobutadiene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Hexachlorocyclopentadiene	ND		11	5.2	ug/L		09/03/20 09:30	09/12/20 21:19	1
Hexachloroethane	ND		5.2	1.0	ug/L		09/03/20 09:30	09/12/20 21:19	1
Hexachloropropene	ND		5.2	2.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Isosafrole	ND		10	4.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
Methapyrilene	ND	* *1	52	16	ug/L		09/03/20 09:30	09/12/20 21:19	1
3-Methylcholanthrene	ND		10	4.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
2-Methylphenol	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
4-Methylphenol	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Naphthalene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
4-Nitroaniline	ND		3.1	0.93	ug/L		09/03/20 09:30	09/12/20 21:19	1

Client Sample ID: PAD-EB1-082720
Date Collected: 08/27/20 13:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-18
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
5-Nitro-o-toluidine	ND		10	4.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
4-Nitrophenol	ND		31	10	ug/L		09/03/20 09:30	09/12/20 21:19	1
N-Nitrosodiethylamine	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
N-Nitrosodi-n-butylamine	ND		26	12	ug/L		09/03/20 09:30	09/12/20 21:19	1
N-Nitrosodi-n-propylamine	ND		3.1	0.73	ug/L		09/03/20 09:30	09/12/20 21:19	1
N-Nitrosopiperidine	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
N-Nitrosopyrrolidine	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Pentachlorobenzene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Pentachloronitrobenzene	ND		5.2	2.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
Pentachlorophenol	ND		5.2	1.0	ug/L		09/03/20 09:30	09/12/20 21:19	1
Phenacetin	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Phenanthrene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Phenol	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
Pronamide	ND		5.2	1.0	ug/L		09/03/20 09:30	09/12/20 21:19	1
Pyrene	ND		0.52	0.10	ug/L		09/03/20 09:30	09/12/20 21:19	1
Pyridine	ND		5.2	2.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
Safrole, Total	ND		5.2	2.1	ug/L		09/03/20 09:30	09/12/20 21:19	1
1,2,4,5-Tetrachlorobenzene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
4,4'-Methylene bis(2-chloroaniline)	ND		210	74	ug/L		09/03/20 09:30	09/12/20 21:19	1
1,2,4-Trichlorobenzene	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,4,5-Trichlorophenol	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,4,6-Trichlorophenol	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1
2,2'-oxybis[1-chloropropane]	ND		2.1	0.52	ug/L		09/03/20 09:30	09/12/20 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*5*	*X*	*44 - 102*	*09/03/20 09:30*	*09/12/20 21:19*	*1*
2-Fluorophenol (Surr)	*0.3*	*X*	*10 - 84*	*09/03/20 09:30*	*09/12/20 21:19*	*1*
Nitrobenzene-d5 (Surr)	*1*	*X*	*38 - 113*	*09/03/20 09:30*	*09/12/20 21:19*	*1*
Phenol-d5 (Surr)	*0.04*	*X*	*10 - 67*	*09/03/20 09:30*	*09/12/20 21:19*	*1*
p-Terphenyl-d14 (Surr)	*72*		*34 - 128*	*09/03/20 09:30*	*09/12/20 21:19*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*18 - 141*	*09/03/20 09:30*	*09/12/20 21:19*	*1*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/08/20 09:15	09/08/20 12:37	1
Isobutanol (1C)	ND		1000	150	ug/L		09/08/20 09:15	09/08/20 12:37	1
Methanol (2C)	ND		1000	220	ug/L		09/08/20 09:15	09/08/20 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*157*	*X*	*58 - 149*	*09/08/20 09:15*	*09/08/20 12:37*	*1*
Acetone (2C)	*105*		*58 - 149*	*09/08/20 09:15*	*09/08/20 12:37*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.021	0.0032	ug/L		09/03/20 20:15	09/04/20 09:32	1
alpha-Chlordane (1C)	ND		0.021	0.0032	ug/L		09/03/20 20:15	09/04/20 09:32	1
beta-BHC (1C)	ND		0.021	0.0036	ug/L		09/03/20 20:15	09/04/20 09:32	1
delta-BHC (1C)	ND		0.021	0.0036	ug/L		09/03/20 20:15	09/04/20 09:32	1
Endosulfan I (1C)	ND		0.021	0.0045	ug/L		09/03/20 20:15	09/04/20 09:32	1

Client Sample ID: PAD-EB1-082720

Date Collected: 08/27/20 13:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-18

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II (1C)	ND		0.042	0.016	ug/L		09/03/20 20:15	09/04/20 09:32	1
Endosulfan sulfate (1C)	ND		0.032	0.0061	ug/L		09/03/20 20:15	09/04/20 09:32	1
Endrin (1C)	ND		0.032	0.0085	ug/L		09/03/20 20:15	09/04/20 09:32	1
gamma-BHC (Lindane) (1C)	ND		0.021	0.0021	ug/L		09/03/20 20:15	09/04/20 09:32	1
gamma-Chlordane (1C)	ND		0.042	0.0074	ug/L		09/03/20 20:15	09/04/20 09:32	1
Heptachlor (1C)	ND		0.021	0.0021	ug/L		09/03/20 20:15	09/04/20 09:32	1
Heptachlor epoxide (1C)	ND		0.021	0.0024	ug/L		09/03/20 20:15	09/04/20 09:32	1
Methoxychlor (1C)	ND		0.12	0.032	ug/L		09/03/20 20:15	09/04/20 09:32	1
Toxaphene (1C)	ND		1.1	0.32	ug/L		09/03/20 20:15	09/04/20 09:32	1
p,p'-DDD (1C)	ND		0.032	0.0053	ug/L		09/03/20 20:15	09/04/20 09:32	1
p,p'-DDE (1C)	ND		0.032	0.0053	ug/L		09/03/20 20:15	09/04/20 09:32	1
p,p'-DDT (1C)	ND		0.032	0.0055	ug/L		09/03/20 20:15	09/04/20 09:32	1
Chlordane (n.o.s.) (1C)	ND		0.53	0.17	ug/L		09/03/20 20:15	09/04/20 09:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*29*	*X*	*32 - 149*	*09/03/20 20:15*	*09/04/20 09:32*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*31*	*X*	*32 - 149*	*09/03/20 20:15*	*09/04/20 09:32*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*62*		*29 - 129*	*09/03/20 20:15*	*09/04/20 09:32*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*67*		*29 - 129*	*09/03/20 20:15*	*09/04/20 09:32*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND	*	0.052	0.010	ug/L		08/31/20 20:09	09/06/20 06:30	1
2,4-D (1C)	ND	*	0.63	0.26	ug/L		08/31/20 20:09	09/06/20 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*54*		*34 - 142*	*08/31/20 20:09*	*09/06/20 06:30*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*59*		*34 - 142*	*08/31/20 20:09*	*09/06/20 06:30*	*1*

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/02/20 19:58	09/03/20 09:03	1
Carbofuran	ND	F1 F2	2.0	0.80	ug/L		09/02/20 19:58	09/03/20 09:03	1
Methiocarb	ND	F1	2.0	1.0	ug/L		09/02/20 19:58	09/03/20 09:03	1
Methomyl	ND		2.0	1.0	ug/L		09/02/20 19:58	09/03/20 09:03	1
Oxamyl	ND		2.0	1.0	ug/L		09/02/20 19:58	09/03/20 09:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*106*		*80 - 120*	*09/02/20 19:58*	*09/03/20 09:03*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		08/31/20 13:39	09/02/20 19:27	1
Barium	ND		2.0	0.75	ug/L		08/31/20 13:39	09/02/20 19:27	1
Cadmium	ND		0.50	0.15	ug/L		08/31/20 13:39	09/02/20 19:27	1
Chromium	**0.33**	**J B**	2.0	0.33	ug/L		08/31/20 13:39	09/02/20 19:27	1
Lead	ND		0.50	0.071	ug/L		08/31/20 13:39	09/02/20 19:27	1
Selenium	ND		1.0	0.28	ug/L		08/31/20 13:39	09/02/20 19:27	1
Silver	ND		0.50	0.17	ug/L		08/31/20 13:39	09/02/20 19:27	1

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-EB1-082720

Date Collected: 08/27/20 13:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-18

Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180		100	74	ug/L		08/31/20 13:39	09/02/20 19:27	1
Nickel	ND		1.0	0.60	ug/L		08/31/20 13:39	09/21/20 16:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/01/20 14:35	09/02/20 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	ND		0.010	0.0050	mg/L			09/10/20 01:03	1
Cyanide, Total	ND		0.010	0.0050	mg/L		09/08/20 16:05	09/08/20 21:55	1

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-12176-1	PAD-B-NW-0-0.5	106	95	103	95
410-12176-2	PAD-B-W-CTR-0-0.5	108	96	105	95
410-12176-3	PAD-B-SUMP-1.5-2.0	108	95	103	96
410-12176-4	PAD-B-SW-0-0.5	109	95	105	95
410-12176-5	PAD-B-S-CTR-0-0.5	103	93	106	102
410-12176-6	PAD-A-SE-0-0.5	104	90	107	105
410-12176-7	PAD-A-SUMP-2-3	111	103	104	95
410-12176-8	PAD-A-S-CTR-0-0.5	88	86	85	91
410-12176-9	PAD-AB-S-0-0.5	86	84	82	87
410-12176-11	PAD-G-E-NE-0-0.5	107	95	104	96
410-12176-12	PAD-G-E-CTR-0-0.5	110	92	104	98
410-12176-13	PAD-G-E-SE-0-0.5	113	91	105	98
410-12176-14	PAD-G-S-SE-0-0.5	104	79	103	109
410-12176-15	PAD-G-S-CTR-0-0.5	106	65	106	119
410-12176-16	PAD-G-S-SW-0-0.5	100	90	102	99
410-12176-16 MS	PAD-G-S-SW-0-0.5	97	95	100	102
410-12176-16 MSD	PAD-G-S-SW-0-0.5	99	97	100	101
410-12176-17	PAD-G-S-SW-0-0.5DUP	106	96	104	96
LCS 410-39953/7	Lab Control Sample	96	89	92	94
LCS 410-40069/5	Lab Control Sample	108	102	102	98
LCS 410-40069/7	Lab Control Sample	105	98	100	96
LCS 410-40779/5	Lab Control Sample	101	101	102	98
LCS 410-40779/7	Lab Control Sample	103	97	100	95
LCS 410-41030/5	Lab Control Sample	99	100	101	97
LCS 410-41030/7	Lab Control Sample	100	96	100	96
LCS 410-41260/5	Lab Control Sample	104	103	103	98
LCS 410-41260/7	Lab Control Sample	104	96	101	95
LCSD 410-39953/8	Lab Control Sample Dup	96	89	92	95
LCSD 410-40069/6	Lab Control Sample Dup	105	102	101	98
LCSD 410-40069/8	Lab Control Sample Dup	103	96	100	96
LCSD 410-40779/6	Lab Control Sample Dup	100	101	101	98
LCSD 410-40779/8	Lab Control Sample Dup	104	97	100	95
LCSD 410-41030/6	Lab Control Sample Dup	106	101	101	98
LCSD 410-41030/8	Lab Control Sample Dup	102	96	100	95
LCSD 410-41260/6	Lab Control Sample Dup	103	102	102	97
LCSD 410-41260/8	Lab Control Sample Dup	105	96	101	94
MB 410-39953/9	Method Blank	97	92	93	97
MB 410-40069/10	Method Blank	106	97	102	96
MB 410-40779/10	Method Blank	104	95	102	96
MB 410-41030/31	Method Blank	107	96	104	95
MB 410-41260/10	Method Blank	106	96	104	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCA	BFB	DBFM	TOL
410-12176-16 MS	PAD-G-S-SW-0-0.5				
410-12176-16 MSD	PAD-G-S-SW-0-0.5				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB (80-120)	DBFM (80-120)	DCA (80-120)	TOL (80-120)
410-12176-10	PAD-TB1-082720	97	98	99	99
410-12176-18	PAD-EB1-082720	97	98	99	99
LCS 410-41591/5	Lab Control Sample	99	99	99	100
LCS 410-41591/7	Lab Control Sample	98	96	97	100
LCSD 410-41591/6	Lab Control Sample Dup	99	98	98	101
LCSD 410-41591/8	Lab Control Sample Dup	99	96	98	101
MB 410-41591/10	Method Blank	98	99	100	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) TBP (10-136)	FBP (34-117)	2FP (18-115)	NBZ (23-115)	TPHd14 (35-135)	PHL (21-112)
410-12176-1	PAD-B-NW-0-0.5	87	82	73	71	87	76
410-12176-2	PAD-B-W-CTR-0-0.5	68	74	67	66	76	71
410-12176-3	PAD-B-SUMP-1.5-2.0	72	76	69	70	77	75
410-12176-3 - DL	PAD-B-SUMP-1.5-2.0	78	82	74	73	83	79
410-12176-4	PAD-B-SW-0-0.5	67	71	63	68	72	70
410-12176-5	PAD-B-S-CTR-0-0.5	71	71	58	66	71	67
410-12176-6	PAD-A-SE-0-0.5	72	81	64	74	84	71
410-12176-7	PAD-A-SUMP-2-3	72	74	63	68	79	69
410-12176-8	PAD-A-S-CTR-0-0.5	72	70	60	63	66	66
410-12176-9	PAD-AB-S-0-0.5	85	78	71	68	80	76
410-12176-11	PAD-G-E-NE-0-0.5	69	62	59	61	64	62
410-12176-12	PAD-G-E-CTR-0-0.5	75	65	67	66	68	71
410-12176-13	PAD-G-E-SE-0-0.5	53	57	57	27	56	59
410-12176-14	PAD-G-S-SE-0-0.5	52	60	58	50	60	61
410-12176-15	PAD-G-S-CTR-0-0.5	43	56	57	49	57	60
410-12176-16	PAD-G-S-SW-0-0.5	39	79	71	70	82	74
410-12176-16 MS	PAD-G-S-SW-0-0.5	71	71	63	62	67	68

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(10-136)	(34-117)	(18-115)	(23-115)	(35-135)	(21-112)
410-12176-16 MSD	PAD-G-S-SW-0-0.5	10	73	69	68	75	74
410-12176-17	PAD-G-S-SW-0-0.5DUP	44	73	67	64	75	72
LCS 410-40483/2-A	Lab Control Sample	96	85	77	74	81	83
LCS 410-40483/3-A	Lab Control Sample	95	82	80	72	85	84
LCSD 410-40483/4-A	Lab Control Sample Dup	83	74	71	65	74	75
MB 410-40483/1-A	Method Blank	89	83	80	74	91	81

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHd14	TBP
Lab Sample ID	Client Sample ID	(44-102)	(10-84)	(38-113)	(10-67)	(34-128)	(18-141)
410-12176-18	PAD-EB1-082720	5 X	0.3 X	1 X	0.04 X	72	39
LCS 410-40543/2-A	Lab Control Sample	92	46	89	35	91	90
LCS 410-40543/3-A	Lab Control Sample	86	56	84	44	79	91
LCSD 410-40543/4-A	Lab Control Sample Dup	86	54	87	39	80	96
MB 410-40543/1-A	Method Blank	70	38	74	27	80	77

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Solid — **Prep Type: Soluble**

		Percent Surrogate Recovery (Acceptance Limits)	
		Acetone1	Acetone2
Lab Sample ID	Client Sample ID	(10-179)	(10-179)
410-12176-1	PAD-B-NW-0-0.5	124	89
410-12176-2	PAD-B-W-CTR-0-0.5	124	91
410-12176-3	PAD-B-SUMP-1.5-2.0	117	92
410-12176-4	PAD-B-SW-0-0.5	125	95
410-12176-5	PAD-B-S-CTR-0-0.5	129	99
410-12176-6	PAD-A-SE-0-0.5	120	92
410-12176-7	PAD-A-SUMP-2-3	124	95
410-12176-8	PAD-A-S-CTR-0-0.5	117	94
410-12176-9	PAD-AB-S-0-0.5	122	97
410-12176-11	PAD-G-E-NE-0-0.5	132	101
410-12176-12	PAD-G-E-CTR-0-0.5	118	92

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Matrix: Solid **Prep Type: Soluble**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) Acetone1 (10-179)	Acetone2 (10-179)
410-12176-13	PAD-G-E-SE-0-0.5	113	89
410-12176-14	PAD-G-S-SE-0-0.5	120	93
410-12176-15	PAD-G-S-CTR-0-0.5	114	90
410-12176-16	PAD-G-S-SW-0-0.5	115	92
410-12176-16 MS	PAD-G-S-SW-0-0.5	96	88
410-12176-16 MSD	PAD-G-S-SW-0-0.5	86	83
410-12176-17	PAD-G-S-SW-0-0.5DUP	116	96
LCS 410-40088/2-A	Lab Control Sample	101	94
MB 410-40088/1-A	Method Blank	132	104

Surrogate Legend

Acetone = Acetone

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) Acetone1 (58-149)	Acetone2 (58-149)
410-12176-18	PAD-EB1-082720	157 X	105
LCS 410-41594/2-A	Lab Control Sample	104	84
MB 410-41594/1-A	Method Blank	139	104

Surrogate Legend

Acetone = Acetone

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCB1 (46-152)	DCB2 (46-152)	TCX1 (19-136)	TCX2 (19-136)
410-12176-1	PAD-B-NW-0-0.5	110	104	84	68
410-12176-2	PAD-B-W-CTR-0-0.5	107	102	100	73
410-12176-3	PAD-B-SUMP-1.5-2.0	111	108	78	56
410-12176-3 - DL	PAD-B-SUMP-1.5-2.0	124	122	99	71
410-12176-4	PAD-B-SW-0-0.5	111	104	88	62
410-12176-4 - DL	PAD-B-SW-0-0.5	118	111	90	73
410-12176-5	PAD-B-S-CTR-0-0.5	93	88	92	81
410-12176-6	PAD-A-SE-0-0.5	343 X	341 X	112	96
410-12176-7	PAD-A-SUMP-2-3	123	111	90	76
410-12176-8	PAD-A-S-CTR-0-0.5	379 X	345 X	81	62
410-12176-8 - DL	PAD-A-S-CTR-0-0.5	384 X	334 X	88	71
410-12176-9	PAD-AB-S-0-0.5	181 X	163 X	85	66
410-12176-9 - DL	PAD-AB-S-0-0.5	194 X	168 X	94	77
410-12176-11	PAD-G-E-NE-0-0.5	103	92	85	67
410-12176-12	PAD-G-E-CTR-0-0.5	108	99	88	67
410-12176-13	PAD-G-E-SE-0-0.5	124	83	54	41
410-12176-14	PAD-G-S-SE-0-0.5	130	86	80	58
410-12176-15	PAD-G-S-CTR-0-0.5	165 X	83	87	62
410-12176-16	PAD-G-S-SW-0-0.5	89	79	83	66
410-12176-16 MS	PAD-G-S-SW-0-0.5	94	85	87	60

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCB1 (46-152)	DCB2 (46-152)	TCX1 (19-136)	TCX2 (19-136)
410-12176-16 MSD	PAD-G-S-SW-0-0.5	98	84	88	70
410-12176-17	PAD-G-S-SW-0-0.5DUP	104	131	92	73
410-12176-17 - DL	PAD-G-S-SW-0-0.5DUP	99	121	97	76
LCS 410-40303/2-A	Lab Control Sample	117	118	62	53
MB 410-40303/1-A	Method Blank	111	112	52	45

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCB1 (32-149)	DCB2 (32-149)	TCX1 (29-129)	TCX2 (29-129)
410-12176-18	PAD-EB1-082720	29 X	31 X	62	67
LCS 410-40820/2-A	Lab Control Sample	66	73	54	65
LCSD 410-40820/3-A	Lab Control Sample Dup	83	88	53	61
MB 410-40820/1-A	Method Blank	87	91	53	60

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Solid — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPAA1 (27-136)	DCPAA2 (27-136)
410-12176-1	PAD-B-NW-0-0.5	13 X	13 X
410-12176-1 MS - RE	PAD-B-NW-0-0.5		87
410-12176-1 MSD - RE	PAD-B-NW-0-0.5	109	
410-12176-2	PAD-B-W-CTR-0-0.5	11 X	10 X
410-12176-3	PAD-B-SUMP-1.5-2.0	22 X	20 X
410-12176-4	PAD-B-SW-0-0.5	17 X	16 X
410-12176-5	PAD-B-S-CTR-0-0.5	36	39
410-12176-6	PAD-A-SE-0-0.5	26 X	24 X
410-12176-7	PAD-A-SUMP-2-3	38	38
410-12176-8	PAD-A-S-CTR-0-0.5	12 X	9 X
410-12176-9	PAD-AB-S-0-0.5	46	44
410-12176-11	PAD-G-E-NE-0-0.5	59	55
410-12176-12	PAD-G-E-CTR-0-0.5	58	53
410-12176-13	PAD-G-E-SE-0-0.5	45	44
410-12176-14	PAD-G-S-SE-0-0.5	55	55
410-12176-15	PAD-G-S-CTR-0-0.5	46	50
410-12176-16	PAD-G-S-SW-0-0.5	52	50
410-12176-16 MS	PAD-G-S-SW-0-0.5	57	55
410-12176-16 MSD	PAD-G-S-SW-0-0.5	7 X	6 X
410-12176-17	PAD-G-S-SW-0-0.5DUP	51	50
LCS 410-42789/2-A	Lab Control Sample	11 X	9 X

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPAA1 (27-136)	DCPAA2 (27-136)
LCS 410-46264/2-A	Lab Control Sample	96	97
MB 410-42789/1-A	Method Blank	56	56
MB 410-46264/1-A	Method Blank	52	56

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPAA1 (34-142)	DCPAA2 (34-142)
410-12176-18	PAD-EB1-082720	54	59
LCS 410-39435/2-A	Lab Control Sample	61	
LCSD 410-39435/3-A	Lab Control Sample Dup	68	
MB 410-39435/1-A	Method Blank		57

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 531.1 - Carbamate Pesticides (HPLC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BDMC (80-120)
410-12176-18	PAD-EB1-082720	106
410-12176-18 MS	PAD-EB1-082720	102
410-12176-18 MSD	PAD-EB1-082720	104
LCS 410-40375/2-A	Lab Control Sample	102
MB 410-40375/1-A	Method Blank	99

Surrogate Legend

BDMC = 4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate

Method: 8318 - Carbamate (HPLC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BDMC (27-131)
410-12176-1	PAD-B-NW-0-0.5	77
410-12176-2	PAD-B-W-CTR-0-0.5	80
410-12176-3	PAD-B-SUMP-1.5-2.0	79
410-12176-3	PAD-B-SUMP-1.5-2.0	85
410-12176-4	PAD-B-SW-0-0.5	76
410-12176-5	PAD-B-S-CTR-0-0.5	81
410-12176-6	PAD-A-SE-0-0.5	73
410-12176-7	PAD-A-SUMP-2-3	77
410-12176-8	PAD-A-S-CTR-0-0.5	76
410-12176-9	PAD-AB-S-0-0.5	77
410-12176-11	PAD-G-E-NE-0-0.5	76

Surrogate Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-12176-1
Project/Site: Experimental Station

Method: 8318 - Carbamate (HPLC) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	BDMC (27-131)						
410-12176-12	PAD-G-E-CTR-0-0.5	80						
410-12176-13	PAD-G-E-SE-0-0.5	40						
410-12176-14	PAD-G-S-SE-0-0.5	40						
410-12176-15	PAD-G-S-CTR-0-0.5	36						
410-12176-16	PAD-G-S-SW-0-0.5	37						
410-12176-16 MS	PAD-G-S-SW-0-0.5	40						
410-12176-16 MSD	PAD-G-S-SW-0-0.5	36						
410-12176-17	PAD-G-S-SW-0-0.5DUP	34						
LCS 410-40911/2-A	Lab Control Sample	88						
LCS 410-40914/2-A	Lab Control Sample	42						
MB 410-40911/1-A	Method Blank	87						
MB 410-40914/1-A	Method Blank	39						

Surrogate Legend

BDMC = 4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 38399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		21.4	22.8		ug/Kg	☼	106	73 - 120
1,1,1-Trichloroethane	ND		21.4	26.2		ug/Kg	☼	122	69 - 123
1,1,2,2-Tetrachloroethane	ND		21.4	23.8		ug/Kg	☼	111	69 - 125
1,1,2-Trichloroethane	ND		21.4	23.9		ug/Kg	☼	112	80 - 120
1,1-Dichloroethane	ND	F1	21.4	26.6	F1	ug/Kg	☼	124	79 - 120
1,1-Dichloroethene	ND	F1	21.4	29.8	F1	ug/Kg	☼	139	73 - 129
1,2,4-Trichlorobenzene	ND		21.4	12.1		ug/Kg	☼	57	56 - 130
1,2-Dibromo-3-Chloropropane	ND		21.4	18.8		ug/Kg	☼	88	48 - 134
1,2-Dibromoethane	ND		21.4	21.8		ug/Kg	☼	102	76 - 120
1,2-Dichloroethane	ND		21.4	23.5		ug/Kg	☼	109	71 - 128
1,2-Dichloropropane	ND		21.4	25.7		ug/Kg	☼	120	80 - 120
1,4-Dioxane	ND	F1	536	822	F1	ug/Kg	☼	153	62 - 131
2-Butanone	ND		161	191		ug/Kg	☼	119	57 - 128
4-Methyl-2-pentanone	1.3	J	107	102		ug/Kg	☼	95	67 - 128
Acetone	140	F2 F1	161	487	F1	ug/Kg	☼	214	41 - 150
Acrylonitrile	ND		107	96.4		ug/Kg	☼	90	66 - 120
Benzene	ND	F1	21.4	26.4	F1	ug/Kg	☼	123	80 - 120
Bromoform	ND		21.4	18.5		ug/Kg	☼	86	51 - 127
Bromomethane	ND		21.4	21.9		ug/Kg	☼	102	45 - 140
Carbon disulfide	ND		21.4	26.6		ug/Kg	☼	124	64 - 133
Carbon tetrachloride	ND		21.4	26.1		ug/Kg	☼	122	64 - 134
Chlorobenzene	ND		21.4	23.7		ug/Kg	☼	111	80 - 120
Chloroethane	ND		21.4	23.0		ug/Kg	☼	107	43 - 135
Chloroform	ND	F1	21.4	26.4	F1	ug/Kg	☼	123	80 - 120
Chloromethane	ND		21.4	23.2		ug/Kg	☼	108	56 - 120
cis-1,3-Dichloropropene	ND		21.4	23.3		ug/Kg	☼	109	66 - 120
Dibromomethane	ND		21.4	23.4		ug/Kg	☼	109	80 - 120
Dichlorodifluoromethane	ND		21.4	20.1		ug/Kg	☼	94	21 - 127
Ethyl methacrylate	ND	F1	21.4	10.9	F1	ug/Kg	☼	51	65 - 120
Ethylbenzene	ND		21.4	23.7		ug/Kg	☼	111	78 - 120
Freon 113	ND		21.4	26.9		ug/Kg	☼	126	64 - 135
Methacrylonitrile	ND		161	152		ug/Kg	☼	95	76 - 123
Methyl iodide	ND		21.4	25.1		ug/Kg	☼	117	68 - 126
Methyl methacrylate	ND	F1	21.4	28.3	F1	ug/Kg	☼	132	69 - 120
Methylene Chloride	ND	F1	21.4	27.0	F1	ug/Kg	☼	126	76 - 122
Pentachloroethane	ND		21.4	22.0		ug/Kg	☼	103	68 - 126
Tetrachloroethene	ND		21.4	24.5		ug/Kg	☼	114	73 - 120
Toluene	ND		21.4	25.4		ug/Kg	☼	119	80 - 120
trans-1,2-Dichloroethene	ND	F1	21.4	27.6	F1	ug/Kg	☼	129	80 - 125
trans-1,3-Dichloropropene	ND		21.4	21.9		ug/Kg	☼	102	68 - 122
Trichloroethene	ND	F1	21.4	26.2	F1	ug/Kg	☼	122	80 - 120
Trichlorofluoromethane	ND		21.4	25.7		ug/Kg	☼	120	55 - 134
Vinyl chloride	ND		21.4	23.4		ug/Kg	☼	109	52 - 120
Xylenes, Total	ND		64.3	69.7		ug/Kg	☼	108	75 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*

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

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 38399

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 38399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethyl acetate	ND		19.0	6.01		ug/Kg	☼				
Ethyl ether	ND		19.0	22.5		ug/Kg	☼				

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
4-Bromofluorobenzene (Surr)			
Dibromofluoromethane (Surr)			
Toluene-d8 (Surr)			

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 38399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.1	20.9		ug/Kg	☼	104	73 - 120	9	30
1,1,1-Trichloroethane	ND		20.1	24.0		ug/Kg	☼	119	69 - 123	9	30
1,1,2,2-Tetrachloroethane	ND		20.1	21.8		ug/Kg	☼	108	69 - 125	9	30
1,1,2-Trichloroethane	ND		20.1	22.1		ug/Kg	☼	110	80 - 120	8	30
1,1-Dichloroethane	ND	F1	20.1	24.3	F1	ug/Kg	☼	121	79 - 120	9	30
1,1-Dichloroethene	ND	F1	20.1	26.9	F1	ug/Kg	☼	134	73 - 129	10	30
1,2,4-Trichlorobenzene	ND		20.1	12.0		ug/Kg	☼	60	56 - 130	1	30
1,2-Dibromo-3-Chloropropane	ND		20.1	18.1		ug/Kg	☼	90	48 - 134	4	30
1,2-Dibromoethane	ND		20.1	20.5		ug/Kg	☼	102	76 - 120	6	30
1,2-Dichloroethane	ND		20.1	21.8		ug/Kg	☼	108	71 - 128	7	30
1,2-Dichloropropane	ND		20.1	23.7		ug/Kg	☼	118	80 - 120	8	30
1,4-Dioxane	ND	F1	502	731	F1	ug/Kg	☼	146	62 - 131	12	30
2-Butanone	ND		151	184		ug/Kg	☼	122	57 - 128	4	30
4-Methyl-2-pentanone	1.3	J	100	97.7		ug/Kg	☼	97	67 - 128	4	30
Acetone	140	F2 F1	151	343	F2	ug/Kg	☼	133	41 - 150	35	30
Acrylonitrile	ND		100	92.1		ug/Kg	☼	92	66 - 120	5	30
Benzene	ND	F1	20.1	24.1		ug/Kg	☼	120	80 - 120	9	30
Bromoform	ND		20.1	17.4		ug/Kg	☼	87	51 - 127	6	30
Bromomethane	ND		20.1	20.7		ug/Kg	☼	103	45 - 140	5	30
Carbon disulfide	ND		20.1	24.4		ug/Kg	☼	121	64 - 133	9	30
Carbon tetrachloride	ND		20.1	24.0		ug/Kg	☼	119	64 - 134	9	30
Chlorobenzene	ND		20.1	21.6		ug/Kg	☼	108	80 - 120	9	30
Chloroethane	ND		20.1	21.2		ug/Kg	☼	105	43 - 135	8	30
Chloroform	ND	F1	20.1	24.2	F1	ug/Kg	☼	121	80 - 120	8	30
Chloromethane	ND		20.1	21.4		ug/Kg	☼	107	56 - 120	8	30
cis-1,3-Dichloropropene	ND		20.1	21.5		ug/Kg	☼	107	66 - 120	8	30

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

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 38399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		20.1	22.0		ug/Kg	☼	110	80 - 120	6	30
Dichlorodifluoromethane	ND		20.1	18.6		ug/Kg	☼	93	21 - 127	8	30
Ethyl methacrylate	ND	F1	20.1	9.98	F1	ug/Kg	☼	50	65 - 120	8	30
Ethylbenzene	ND		20.1	21.6		ug/Kg	☼	108	78 - 120	9	30
Freon 113	ND		20.1	24.5		ug/Kg	☼	122	64 - 135	9	30
Methacrylonitrile	ND		151	145		ug/Kg	☼	96	76 - 123	5	30
Methyl iodide	ND		20.1	22.6		ug/Kg	☼	113	68 - 126	10	30
Methyl methacrylate	ND	F1	20.1	27.8	F1	ug/Kg	☼	139	69 - 120	2	30
Methylene Chloride	ND	F1	20.1	25.1	F1	ug/Kg	☼	125	76 - 122	7	30
Pentachloroethane	ND		20.1	19.6		ug/Kg	☼	97	68 - 126	12	30
Tetrachloroethene	ND		20.1	23.4		ug/Kg	☼	117	73 - 120	5	30
Toluene	ND		20.1	22.9		ug/Kg	☼	114	80 - 120	10	30
trans-1,2-Dichloroethene	ND	F1	20.1	24.8		ug/Kg	☼	124	80 - 125	11	30
trans-1,3-Dichloropropene	ND		20.1	20.5		ug/Kg	☼	102	68 - 122	7	30
Trichloroethene	ND	F1	20.1	24.1		ug/Kg	☼	120	80 - 120	9	30
Trichlorofluoromethane	ND		20.1	23.6		ug/Kg	☼	118	55 - 134	8	30
Vinyl chloride	ND		20.1	21.5		ug/Kg	☼	107	52 - 120	8	30
Xylenes, Total	ND		60.3	63.9		ug/Kg	☼	106	75 - 120	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 38399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate	ND		18.7	1.27	J	ug/Kg	☼				
Ethyl ether	ND		18.7	22.2		ug/Kg	☼				

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
4-Bromofluorobenzene (Surr)			
Dibromofluoromethane (Surr)			
Toluene-d8 (Surr)			

Lab Sample ID: MB 410-39953/9
Matrix: Solid
Analysis Batch: 39953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		500	100	ug/Kg			09/02/20 01:43	50
1,2-Dibromo-3-Chloropropane	ND		250	25	ug/Kg			09/02/20 01:43	50
Acetone	ND		1000	300	ug/Kg			09/02/20 01:43	50
1,2-Dibromoethane	ND		250	20	ug/Kg			09/02/20 01:43	50

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

Lab Sample ID: MB 410-39953/9
Matrix: Solid
Analysis Batch: 39953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		1000	40	ug/Kg			09/02/20 01:43	50
Benzene	ND		250	25	ug/Kg			09/02/20 01:43	50
Bromoform	ND		500	250	ug/Kg			09/02/20 01:43	50
Bromomethane	ND		250	35	ug/Kg			09/02/20 01:43	50
1,1-Dichloroethane	ND		250	25	ug/Kg			09/02/20 01:43	50
Carbon disulfide	ND		250	30	ug/Kg			09/02/20 01:43	50
1,2-Dichloroethane	ND		250	30	ug/Kg			09/02/20 01:43	50
Carbon tetrachloride	ND		250	25	ug/Kg			09/02/20 01:43	50
Chlorobenzene	ND		250	25	ug/Kg			09/02/20 01:43	50
1,1-Dichloroethene	ND		250	25	ug/Kg			09/02/20 01:43	50
Chloroethane	ND		250	50	ug/Kg			09/02/20 01:43	50
1,2-Dichloropropane	ND		250	25	ug/Kg			09/02/20 01:43	50
Chloroform	ND		250	30	ug/Kg			09/02/20 01:43	50
1,4-Dioxane	ND		13000	1900	ug/Kg			09/02/20 01:43	50
Chloromethane	ND		250	30	ug/Kg			09/02/20 01:43	50
cis-1,3-Dichloropropene	ND		250	20	ug/Kg			09/02/20 01:43	50
Dibromomethane	ND		250	25	ug/Kg			09/02/20 01:43	50
Dichlorodifluoromethane	ND		250	30	ug/Kg			09/02/20 01:43	50
Ethyl acetate	ND		250	50	ug/Kg			09/02/20 01:43	50
Ethyl ether	ND		250	50	ug/Kg			09/02/20 01:43	50
Ethyl methacrylate	ND		250	50	ug/Kg			09/02/20 01:43	50
Ethylbenzene	ND		250	20	ug/Kg			09/02/20 01:43	50
Freon 113	ND		500	30	ug/Kg			09/02/20 01:43	50
Methacrylonitrile	ND		2500	400	ug/Kg			09/02/20 01:43	50
4-Methyl-2-pentanone	ND		500	50	ug/Kg			09/02/20 01:43	50
Methyl iodide	ND		250	20	ug/Kg			09/02/20 01:43	50
Methyl methacrylate	ND		250	25	ug/Kg			09/02/20 01:43	50
1,1,1,2-Tetrachloroethane	ND		250	25	ug/Kg			09/02/20 01:43	50
Methylene Chloride	ND		250	100	ug/Kg			09/02/20 01:43	50
1,1,2,2-Tetrachloroethane	ND		250	20	ug/Kg			09/02/20 01:43	50
Pentachloroethane	ND		250	25	ug/Kg			09/02/20 01:43	50
Tetrachloroethene	ND		250	25	ug/Kg			09/02/20 01:43	50
Toluene	ND		250	30	ug/Kg			09/02/20 01:43	50
trans-1,2-Dichloroethene	ND		250	25	ug/Kg			09/02/20 01:43	50
trans-1,3-Dichloropropene	ND		250	25	ug/Kg			09/02/20 01:43	50
1,2,4-Trichlorobenzene	ND		500	250	ug/Kg			09/02/20 01:43	50
1,1,1-Trichloroethane	ND		250	30	ug/Kg			09/02/20 01:43	50
1,1,2-Trichloroethane	ND		250	25	ug/Kg			09/02/20 01:43	50
Trichloroethene	ND		250	25	ug/Kg			09/02/20 01:43	50
Trichlorofluoromethane	ND		250	35	ug/Kg			09/02/20 01:43	50
Vinyl chloride	ND		250	30	ug/Kg			09/02/20 01:43	50
Xylenes, Total	ND		500	70	ug/Kg			09/02/20 01:43	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*		*09/02/20 01:43*	*50*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*		*09/02/20 01:43*	*50*
Dibromofluoromethane (Surr)	*93*		*50 - 141*		*09/02/20 01:43*	*50*
Toluene-d8 (Surr)	*97*		*52 - 141*		*09/02/20 01:43*	*50*

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

Lab Sample ID: LCS 410-39953/7
Matrix: Solid
Analysis Batch: 39953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethyl acetate			1000	986		ug/Kg		99	65 - 133		
Ethyl ether			1000	1020		ug/Kg		102	59 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*54 - 135*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*
Dibromofluoromethane (Surr)	*92*		*50 - 141*
Toluene-d8 (Surr)	*94*		*52 - 141*

Lab Sample ID: LCSD 410-39953/8
Matrix: Solid
Analysis Batch: 39953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate			1000	933		ug/Kg		93	65 - 133	6	30
Ethyl ether			1000	1000		ug/Kg		100	59 - 135	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*54 - 135*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*
Dibromofluoromethane (Surr)	*92*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Lab Sample ID: MB 410-40069/10
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	2.0	ug/Kg			09/02/20 11:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Acetone	ND		20	6.0	ug/Kg			09/02/20 11:24	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/02/20 11:24	1
Acrylonitrile	ND		20	0.80	ug/Kg			09/02/20 11:24	1
Benzene	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Bromoform	ND		10	5.0	ug/Kg			09/02/20 11:24	1
Bromomethane	ND		5.0	0.70	ug/Kg			09/02/20 11:24	1
1,1-Dichloroethane	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Carbon disulfide	ND		5.0	0.60	ug/Kg			09/02/20 11:24	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/02/20 11:24	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Chlorobenzene	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
1,1-Dichloroethene	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Chloroethane	ND		5.0	1.0	ug/Kg			09/02/20 11:24	1
1,2-Dichloropropane	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Chloroform	ND		5.0	0.60	ug/Kg			09/02/20 11:24	1
1,4-Dioxane	ND		250	37	ug/Kg			09/02/20 11:24	1
Chloromethane	ND		5.0	0.60	ug/Kg			09/02/20 11:24	1
cis-1,3-Dichloropropene	ND		5.0	0.40	ug/Kg			09/02/20 11:24	1

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

Lab Sample ID: MB 410-40069/10
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Dichlorodifluoromethane	ND		5.0	0.60	ug/Kg			09/02/20 11:24	1
Ethyl acetate	ND		5.0	1.0	ug/Kg			09/02/20 11:24	1
Ethyl ether	ND		5.0	1.0	ug/Kg			09/02/20 11:24	1
Ethyl methacrylate	ND		5.0	1.0	ug/Kg			09/02/20 11:24	1
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/02/20 11:24	1
Freon 113	ND		10	0.60	ug/Kg			09/02/20 11:24	1
Methacrylonitrile	ND		50	8.0	ug/Kg			09/02/20 11:24	1
4-Methyl-2-pentanone	ND		10	1.0	ug/Kg			09/02/20 11:24	1
Methyl iodide	ND		5.0	0.40	ug/Kg			09/02/20 11:24	1
Methyl methacrylate	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Methylene Chloride	ND		5.0	2.0	ug/Kg			09/02/20 11:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.40	ug/Kg			09/02/20 11:24	1
Pentachloroethane	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Tetrachloroethene	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Toluene	ND		5.0	0.60	ug/Kg			09/02/20 11:24	1
trans-1,2-Dichloroethene	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
1,2,4-Trichlorobenzene	ND		10	5.0	ug/Kg			09/02/20 11:24	1
1,1,1-Trichloroethane	ND		5.0	0.60	ug/Kg			09/02/20 11:24	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Trichloroethene	ND		5.0	0.50	ug/Kg			09/02/20 11:24	1
Trichlorofluoromethane	ND		5.0	0.70	ug/Kg			09/02/20 11:24	1
Vinyl chloride	ND		5.0	0.60	ug/Kg			09/02/20 11:24	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/02/20 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*		*09/02/20 11:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*		*09/02/20 11:24*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*		*09/02/20 11:24*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*		*09/02/20 11:24*	*1*

Lab Sample ID: LCS 410-40069/5
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	150	135		ug/Kg		90	57 - 128
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/Kg		91	48 - 134
Acetone	150	117		ug/Kg		78	41 - 150
1,2-Dibromoethane	20.0	18.7		ug/Kg		94	76 - 120
Acrylonitrile	100	92.0		ug/Kg		92	66 - 120
Benzene	20.0	19.4		ug/Kg		97	80 - 120
Bromoform	20.0	17.3		ug/Kg		87	51 - 127
Bromomethane	20.0	17.9		ug/Kg		90	45 - 140
1,1-Dichloroethane	20.0	19.4		ug/Kg		97	79 - 120
Carbon disulfide	20.0	20.5		ug/Kg		102	64 - 133

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

Lab Sample ID: LCS 410-40069/5
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	20.0	18.7		ug/Kg		94	71 - 128
Carbon tetrachloride	20.0	18.8		ug/Kg		94	64 - 134
Chlorobenzene	20.0	18.2		ug/Kg		91	80 - 120
1,1-Dichloroethene	20.0	21.2		ug/Kg		106	73 - 129
Chloroethane	20.0	18.3		ug/Kg		91	43 - 135
1,2-Dichloropropane	20.0	19.3		ug/Kg		96	80 - 120
Chloroform	20.0	19.4		ug/Kg		97	80 - 120
1,4-Dioxane	500	379		ug/Kg		76	62 - 131
Chloromethane	20.0	17.4		ug/Kg		87	56 - 120
cis-1,3-Dichloropropene	20.0	18.3		ug/Kg		91	66 - 120
Dibromomethane	20.0	19.5		ug/Kg		98	80 - 120
Dichlorodifluoromethane	20.0	14.3		ug/Kg		71	21 - 127
Ethyl methacrylate	20.0	17.3		ug/Kg		87	65 - 120
Ethylbenzene	20.0	17.7		ug/Kg		88	78 - 120
Freon 113	20.0	19.1		ug/Kg		96	64 - 135
Methacrylonitrile	150	150		ug/Kg		100	76 - 123
4-Methyl-2-pentanone	100	94.1		ug/Kg		94	67 - 128
Methyl iodide	20.0	19.1		ug/Kg		96	68 - 126
Methyl methacrylate	20.0	19.7		ug/Kg		99	69 - 120
1,1,1,2-Tetrachloroethane	20.0	17.4		ug/Kg		87	73 - 120
Methylene Chloride	20.0	19.9		ug/Kg		100	76 - 122
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/Kg		96	69 - 125
Pentachloroethane	20.0	18.8		ug/Kg		94	68 - 126
Tetrachloroethene	20.0	17.5		ug/Kg		87	73 - 120
Toluene	20.0	18.4		ug/Kg		92	80 - 120
trans-1,2-Dichloroethene	20.0	19.9		ug/Kg		100	80 - 126
trans-1,3-Dichloropropene	20.0	17.6		ug/Kg		88	68 - 122
1,2,4-Trichlorobenzene	20.0	16.7		ug/Kg		84	56 - 130
1,1,1-Trichloroethane	20.0	18.9		ug/Kg		95	69 - 123
1,1,2-Trichloroethane	20.0	19.7		ug/Kg		98	80 - 120
Trichloroethene	20.0	19.1		ug/Kg		96	80 - 120
Trichlorofluoromethane	20.0	18.6		ug/Kg		93	55 - 134
Vinyl chloride	20.0	17.9		ug/Kg		90	52 - 120
Xylenes, Total	60.0	53.1		ug/Kg		89	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*102*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCS 410-40069/7
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl acetate	20.0	17.8		ug/Kg		89	65 - 133
Ethyl ether	20.0	16.7		ug/Kg		83	59 - 135

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

Lab Sample ID: LCS 410-40069/7
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: LCSD 410-40069/6
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone			150	128		ug/Kg		86	57 - 128	5	30
1,2-Dibromo-3-Chloropropane			20.0	17.2		ug/Kg		86	48 - 134	6	30
Acetone			150	114		ug/Kg		76	41 - 150	2	30
1,2-Dibromoethane			20.0	18.3		ug/Kg		91	76 - 120	2	30
Acrylonitrile			100	87.6		ug/Kg		88	66 - 120	5	30
Benzene			20.0	19.1		ug/Kg		96	80 - 120	2	30
Bromoform			20.0	16.9		ug/Kg		84	51 - 127	3	30
Bromomethane			20.0	17.5		ug/Kg		88	45 - 140	2	30
1,1-Dichloroethane			20.0	19.0		ug/Kg		95	79 - 120	2	30
Carbon disulfide			20.0	19.9		ug/Kg		99	64 - 133	3	30
1,2-Dichloroethane			20.0	18.4		ug/Kg		92	71 - 128	2	30
Carbon tetrachloride			20.0	18.3		ug/Kg		92	64 - 134	3	30
Chlorobenzene			20.0	18.0		ug/Kg		90	80 - 120	1	30
1,1-Dichloroethene			20.0	20.4		ug/Kg		102	73 - 129	4	30
Chloroethane			20.0	18.0		ug/Kg		90	43 - 135	1	30
1,2-Dichloropropane			20.0	19.0		ug/Kg		95	80 - 120	1	30
Chloroform			20.0	19.0		ug/Kg		95	80 - 120	2	30
1,4-Dioxane			500	417		ug/Kg		83	62 - 131	10	30
Chloromethane			20.0	17.4		ug/Kg		87	56 - 120	0	30
cis-1,3-Dichloropropene			20.0	18.4		ug/Kg		92	66 - 120	1	30
Dibromomethane			20.0	19.1		ug/Kg		96	80 - 120	2	30
Dichlorodifluoromethane			20.0	14.1		ug/Kg		70	21 - 127	1	30
Ethyl methacrylate			20.0	16.7		ug/Kg		84	65 - 120	4	30
Ethylbenzene			20.0	17.7		ug/Kg		88	78 - 120	0	30
Freon 113			20.0	18.5		ug/Kg		93	64 - 135	3	30
Methacrylonitrile			150	143		ug/Kg		95	76 - 123	5	30
4-Methyl-2-pentanone			100	88.6		ug/Kg		89	67 - 128	6	30
Methyl iodide			20.0	18.7		ug/Kg		94	68 - 126	2	30
Methyl methacrylate			20.0	19.0		ug/Kg		95	69 - 120	4	30
1,1,1,2-Tetrachloroethane			20.0	17.1		ug/Kg		85	73 - 120	2	30
Methylene Chloride			20.0	19.3		ug/Kg		96	76 - 122	3	30
1,1,2,2-Tetrachloroethane			20.0	18.6		ug/Kg		93	69 - 125	3	30
Pentachloroethane			20.0	19.8		ug/Kg		99	68 - 126	5	30
Tetrachloroethene			20.0	16.4		ug/Kg		82	73 - 120	7	30
Toluene			20.0	18.2		ug/Kg		91	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	19.7		ug/Kg		98	80 - 126	1	30
trans-1,3-Dichloropropene			20.0	17.5		ug/Kg		88	68 - 122	0	30
1,2,4-Trichlorobenzene			20.0	17.0		ug/Kg		85	56 - 130	2	30

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

Lab Sample ID: LCSD 410-40069/6
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	18.5		ug/Kg		93	69 - 123	2	30
1,1,2-Trichloroethane			20.0	19.1		ug/Kg		95	80 - 120	3	30
Trichloroethene			20.0	18.9		ug/Kg		94	80 - 120	1	30
Trichlorofluoromethane			20.0	18.3		ug/Kg		92	55 - 134	1	30
Vinyl chloride			20.0	16.8		ug/Kg		84	52 - 120	7	30
Xylenes, Total			60.0	52.9		ug/Kg		88	75 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*
4-Bromofluorobenzene (Surr)	*102*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-40069/8
Matrix: Solid
Analysis Batch: 40069

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate			20.0	17.1		ug/Kg		85	65 - 133	4	30
Ethyl ether			20.0	16.4		ug/Kg		82	59 - 135	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: MB 410-40779/10
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	2.0	ug/Kg			09/03/20 22:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Acetone	ND		20	6.0	ug/Kg			09/03/20 22:10	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/03/20 22:10	1
Acrylonitrile	ND		20	0.80	ug/Kg			09/03/20 22:10	1
Benzene	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Bromoform	ND		10	5.0	ug/Kg			09/03/20 22:10	1
Bromomethane	ND		5.0	0.70	ug/Kg			09/03/20 22:10	1
1,1-Dichloroethane	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Carbon disulfide	ND		5.0	0.60	ug/Kg			09/03/20 22:10	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/03/20 22:10	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Chlorobenzene	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
1,1-Dichloroethene	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Chloroethane	ND		5.0	1.0	ug/Kg			09/03/20 22:10	1
1,2-Dichloropropane	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1

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

Lab Sample ID: MB 410-40779/10
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		5.0	0.60	ug/Kg			09/03/20 22:10	1
1,4-Dioxane	ND		250	37	ug/Kg			09/03/20 22:10	1
Chloromethane	ND		5.0	0.60	ug/Kg			09/03/20 22:10	1
cis-1,3-Dichloropropene	ND		5.0	0.40	ug/Kg			09/03/20 22:10	1
Dibromomethane	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Dichlorodifluoromethane	ND		5.0	0.60	ug/Kg			09/03/20 22:10	1
Ethyl acetate	ND		5.0	1.0	ug/Kg			09/03/20 22:10	1
Ethyl ether	ND		5.0	1.0	ug/Kg			09/03/20 22:10	1
Ethyl methacrylate	ND		5.0	1.0	ug/Kg			09/03/20 22:10	1
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/03/20 22:10	1
Freon 113	ND		10	0.60	ug/Kg			09/03/20 22:10	1
Methacrylonitrile	ND		50	8.0	ug/Kg			09/03/20 22:10	1
4-Methyl-2-pentanone	ND		10	1.0	ug/Kg			09/03/20 22:10	1
Methyl iodide	ND		5.0	0.40	ug/Kg			09/03/20 22:10	1
Methyl methacrylate	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Methylene Chloride	ND		5.0	2.0	ug/Kg			09/03/20 22:10	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.40	ug/Kg			09/03/20 22:10	1
Pentachloroethane	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Tetrachloroethene	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Toluene	ND		5.0	0.60	ug/Kg			09/03/20 22:10	1
trans-1,2-Dichloroethene	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
1,2,4-Trichlorobenzene	ND		10	5.0	ug/Kg			09/03/20 22:10	1
1,1,1-Trichloroethane	ND		5.0	0.60	ug/Kg			09/03/20 22:10	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Trichloroethene	ND		5.0	0.50	ug/Kg			09/03/20 22:10	1
Trichlorofluoromethane	ND		5.0	0.70	ug/Kg			09/03/20 22:10	1
Vinyl chloride	ND		5.0	0.60	ug/Kg			09/03/20 22:10	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/03/20 22:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*09/03/20 22:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*		*09/03/20 22:10*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*		*09/03/20 22:10*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*		*09/03/20 22:10*	*1*

Lab Sample ID: LCS 410-40779/5
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	150	136		ug/Kg		91	57 - 128
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/Kg		88	48 - 134
Acetone	150	135		ug/Kg		90	41 - 150
1,2-Dibromoethane	20.0	18.7		ug/Kg		94	76 - 120
Acrylonitrile	100	93.6		ug/Kg		94	66 - 120
Benzene	20.0	20.7		ug/Kg		103	80 - 120

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

Lab Sample ID: LCS 410-40779/5
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	20.0	17.3		ug/Kg		86	51 - 127
Bromomethane	20.0	20.7		ug/Kg		103	45 - 140
1,1-Dichloroethane	20.0	20.7		ug/Kg		104	79 - 120
Carbon disulfide	20.0	21.6		ug/Kg		108	64 - 133
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	71 - 128
Carbon tetrachloride	20.0	19.1		ug/Kg		95	64 - 134
Chlorobenzene	20.0	19.3		ug/Kg		96	80 - 120
1,1-Dichloroethene	20.0	21.7		ug/Kg		108	73 - 129
Chloroethane	20.0	21.1		ug/Kg		105	43 - 135
1,2-Dichloropropane	20.0	20.6		ug/Kg		103	80 - 120
Chloroform	20.0	20.8		ug/Kg		104	80 - 120
1,4-Dioxane	500	506		ug/Kg		101	62 - 131
Chloromethane	20.0	20.1		ug/Kg		101	56 - 120
cis-1,3-Dichloropropene	20.0	19.5		ug/Kg		98	66 - 120
Dibromomethane	20.0	20.3		ug/Kg		102	80 - 120
Dichlorodifluoromethane	20.0	12.9		ug/Kg		64	21 - 127
Ethyl methacrylate	20.0	17.0		ug/Kg		85	65 - 120
Ethylbenzene	20.0	18.7		ug/Kg		94	78 - 120
Freon 113	20.0	15.9		ug/Kg		79	64 - 135
Methacrylonitrile	150	148		ug/Kg		99	76 - 123
4-Methyl-2-pentanone	100	95.9		ug/Kg		96	67 - 128
Methyl iodide	20.0	20.1		ug/Kg		100	68 - 126
Methyl methacrylate	20.0	18.9		ug/Kg		94	69 - 120
1,1,1,2-Tetrachloroethane	20.0	18.6		ug/Kg		93	73 - 120
Methylene Chloride	20.0	21.2		ug/Kg		106	76 - 122
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/Kg		96	69 - 125
Pentachloroethane	20.0	23.7		ug/Kg		119	68 - 126
Tetrachloroethene	20.0	17.3		ug/Kg		87	73 - 120
Toluene	20.0	19.2		ug/Kg		96	80 - 120
trans-1,2-Dichloroethene	20.0	21.3		ug/Kg		107	80 - 126
trans-1,3-Dichloropropene	20.0	18.3		ug/Kg		92	68 - 122
1,2,4-Trichlorobenzene	20.0	17.4		ug/Kg		87	56 - 130
1,1,1-Trichloroethane	20.0	20.2		ug/Kg		101	69 - 123
1,1,2-Trichloroethane	20.0	19.9		ug/Kg		100	80 - 120
Trichloroethene	20.0	20.2		ug/Kg		101	80 - 120
Trichlorofluoromethane	20.0	19.1		ug/Kg		95	55 - 134
Vinyl chloride	20.0	19.9		ug/Kg		99	52 - 120
Xylenes, Total	60.0	56.8		ug/Kg		95	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*101*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

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

Lab Sample ID: LCS 410-40779/7
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethyl acetate			20.0	20.0		ug/Kg		100	65 - 133		
Ethyl ether			20.0	24.5		ug/Kg		122	59 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Lab Sample ID: LCSD 410-40779/6
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone			150	137		ug/Kg		92	57 - 128	1	30
1,2-Dibromo-3-Chloropropane			20.0	18.1		ug/Kg		90	48 - 134	3	30
Acetone			150	142		ug/Kg		95	41 - 150	5	30
1,2-Dibromoethane			20.0	19.5		ug/Kg		98	76 - 120	4	30
Acrylonitrile			100	95.0		ug/Kg		95	66 - 120	1	30
Benzene			20.0	21.4		ug/Kg		107	80 - 120	4	30
Bromoform			20.0	17.7		ug/Kg		88	51 - 127	2	30
Bromomethane			20.0	21.4		ug/Kg		107	45 - 140	3	30
1,1-Dichloroethane			20.0	21.4		ug/Kg		107	79 - 120	3	30
Carbon disulfide			20.0	22.3		ug/Kg		112	64 - 133	4	30
1,2-Dichloroethane			20.0	20.1		ug/Kg		101	71 - 128	3	30
Carbon tetrachloride			20.0	19.7		ug/Kg		98	64 - 134	3	30
Chlorobenzene			20.0	20.0		ug/Kg		100	80 - 120	4	30
1,1-Dichloroethene			20.0	22.4		ug/Kg		112	73 - 129	3	30
Chloroethane			20.0	21.6		ug/Kg		108	43 - 135	2	30
1,2-Dichloropropane			20.0	21.6		ug/Kg		108	80 - 120	5	30
Chloroform			20.0	21.5		ug/Kg		107	80 - 120	3	30
1,4-Dioxane			500	568		ug/Kg		114	62 - 131	12	30
Chloromethane			20.0	19.3		ug/Kg		97	56 - 120	4	30
cis-1,3-Dichloropropene			20.0	20.8		ug/Kg		104	66 - 120	7	30
Dibromomethane			20.0	21.1		ug/Kg		106	80 - 120	4	30
Dichlorodifluoromethane			20.0	13.9		ug/Kg		69	21 - 127	7	30
Ethyl methacrylate			20.0	17.7		ug/Kg		89	65 - 120	4	30
Ethylbenzene			20.0	19.4		ug/Kg		97	78 - 120	4	30
Freon 113			20.0	16.1		ug/Kg		80	64 - 135	1	30
Methacrylonitrile			150	151		ug/Kg		101	76 - 123	2	30
4-Methyl-2-pentanone			100	96.4		ug/Kg		96	67 - 128	1	30
Methyl iodide			20.0	21.0		ug/Kg		105	68 - 126	5	30
Methyl methacrylate			20.0	19.3		ug/Kg		97	69 - 120	2	30
1,1,1,2-Tetrachloroethane			20.0	19.4		ug/Kg		97	73 - 120	4	30
Methylene Chloride			20.0	22.3		ug/Kg		111	76 - 122	5	30
1,1,2,2-Tetrachloroethane			20.0	19.7		ug/Kg		99	69 - 125	3	30
Pentachloroethane			20.0	25.4	*	ug/Kg		127	68 - 126	7	30
Tetrachloroethene			20.0	17.7		ug/Kg		89	73 - 120	2	30

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

Lab Sample ID: LCSD 410-40779/6
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			20.0	20.0		ug/Kg		100	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	21.8		ug/Kg		109	80 - 126	2	30
trans-1,3-Dichloropropene			20.0	19.1		ug/Kg		96	68 - 122	4	30
1,2,4-Trichlorobenzene			20.0	18.4		ug/Kg		92	56 - 130	5	30
1,1,1-Trichloroethane			20.0	20.5		ug/Kg		102	69 - 123	2	30
1,1,2-Trichloroethane			20.0	20.5		ug/Kg		103	80 - 120	3	30
Trichloroethene			20.0	20.9		ug/Kg		105	80 - 120	3	30
Trichlorofluoromethane			20.0	19.5		ug/Kg		97	55 - 134	2	30
Vinyl chloride			20.0	20.3		ug/Kg		102	52 - 120	2	30
Xylenes, Total			60.0	59.2		ug/Kg		99	75 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*101*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-40779/8
Matrix: Solid
Analysis Batch: 40779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate			20.0	19.2		ug/Kg		96	65 - 133	4	30
Ethyl ether			20.0	23.8		ug/Kg		119	59 - 135	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Lab Sample ID: MB 410-41030/31
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	2.0	ug/Kg			09/04/20 13:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Acetone	ND		20	6.0	ug/Kg			09/04/20 13:44	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Acrylonitrile	ND		20	0.80	ug/Kg			09/04/20 13:44	1
Benzene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Bromoform	ND		10	5.0	ug/Kg			09/04/20 13:44	1
Bromomethane	ND		5.0	0.70	ug/Kg			09/04/20 13:44	1
1,1-Dichloroethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Carbon disulfide	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1

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

Lab Sample ID: MB 410-41030/31
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
1,1-Dichloroethene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Chloroethane	ND		5.0	1.0	ug/Kg			09/04/20 13:44	1
1,2-Dichloropropane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Chloroform	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
1,4-Dioxane	ND		250	37	ug/Kg			09/04/20 13:44	1
Chloromethane	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
cis-1,3-Dichloropropene	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Dibromomethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Dichlorodifluoromethane	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
Ethyl acetate	ND		5.0	1.0	ug/Kg			09/04/20 13:44	1
Ethyl ether	ND		5.0	1.0	ug/Kg			09/04/20 13:44	1
Ethyl methacrylate	ND		5.0	1.0	ug/Kg			09/04/20 13:44	1
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Freon 113	ND		10	0.60	ug/Kg			09/04/20 13:44	1
Methacrylonitrile	ND		50	8.0	ug/Kg			09/04/20 13:44	1
4-Methyl-2-pentanone	ND		10	1.0	ug/Kg			09/04/20 13:44	1
Methyl iodide	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Methyl methacrylate	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Methylene Chloride	ND		5.0	2.0	ug/Kg			09/04/20 13:44	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.40	ug/Kg			09/04/20 13:44	1
Pentachloroethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Tetrachloroethene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Toluene	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
trans-1,2-Dichloroethene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
1,2,4-Trichlorobenzene	ND		10	5.0	ug/Kg			09/04/20 13:44	1
1,1,1-Trichloroethane	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Trichloroethene	ND		5.0	0.50	ug/Kg			09/04/20 13:44	1
Trichlorofluoromethane	ND		5.0	0.70	ug/Kg			09/04/20 13:44	1
Vinyl chloride	ND		5.0	0.60	ug/Kg			09/04/20 13:44	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/04/20 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*		*09/04/20 13:44*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*		*09/04/20 13:44*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*		*09/04/20 13:44*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*		*09/04/20 13:44*	*1*

Lab Sample ID: LCS 410-41030/5
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Butanone			150	133		ug/Kg		89	57 - 128		
1,2-Dibromo-3-Chloropropane			20.0	18.1		ug/Kg		91	48 - 134		

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

Lab Sample ID: LCS 410-41030/5
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	150	141		ug/Kg		94	41 - 150
1,2-Dibromoethane	20.0	20.5		ug/Kg		102	76 - 120
Acrylonitrile	100	91.6		ug/Kg		92	66 - 120
Benzene	20.0	23.0		ug/Kg		115	80 - 120
Bromoform	20.0	18.6		ug/Kg		93	51 - 127
Bromomethane	20.0	21.2		ug/Kg		106	45 - 140
1,1-Dichloroethane	20.0	23.1		ug/Kg		116	79 - 120
Carbon disulfide	20.0	23.6		ug/Kg		118	64 - 133
1,2-Dichloroethane	20.0	21.3		ug/Kg		107	71 - 128
Carbon tetrachloride	20.0	22.9		ug/Kg		114	64 - 134
Chlorobenzene	20.0	21.7		ug/Kg		108	80 - 120
1,1-Dichloroethene	20.0	24.9		ug/Kg		125	73 - 129
Chloroethane	20.0	21.2		ug/Kg		106	43 - 135
1,2-Dichloropropane	20.0	22.8		ug/Kg		114	80 - 120
Chloroform	20.0	23.1		ug/Kg		115	80 - 120
1,4-Dioxane	500	599		ug/Kg		120	62 - 131
Chloromethane	20.0	20.9		ug/Kg		105	56 - 120
cis-1,3-Dichloropropene	20.0	21.7		ug/Kg		109	66 - 120
Dibromomethane	20.0	21.8		ug/Kg		109	80 - 120
Dichlorodifluoromethane	20.0	17.6		ug/Kg		88	21 - 127
Ethyl methacrylate	20.0	17.7		ug/Kg		88	65 - 120
Ethylbenzene	20.0	21.4		ug/Kg		107	78 - 120
Freon 113	20.0	21.7		ug/Kg		108	64 - 135
Methacrylonitrile	150	149		ug/Kg		99	76 - 123
4-Methyl-2-pentanone	100	92.3		ug/Kg		92	67 - 128
Methyl iodide	20.0	21.5		ug/Kg		108	68 - 126
Methyl methacrylate	20.0	20.1		ug/Kg		100	69 - 120
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/Kg		102	73 - 120
Methylene Chloride	20.0	23.2		ug/Kg		116	76 - 122
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/Kg		101	69 - 125
Pentachloroethane	20.0	22.9		ug/Kg		115	68 - 126
Tetrachloroethene	20.0	21.4		ug/Kg		107	73 - 120
Toluene	20.0	21.9		ug/Kg		110	80 - 120
trans-1,2-Dichloroethene	20.0	24.0		ug/Kg		120	80 - 126
trans-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	68 - 122
1,2,4-Trichlorobenzene	20.0	20.3		ug/Kg		101	56 - 130
1,1,1-Trichloroethane	20.0	22.7		ug/Kg		114	69 - 123
1,1,2-Trichloroethane	20.0	21.7		ug/Kg		108	80 - 120
Trichloroethene	20.0	23.3		ug/Kg		117	80 - 120
Trichlorofluoromethane	20.0	22.1		ug/Kg		110	55 - 134
Vinyl chloride	20.0	21.0		ug/Kg		105	52 - 120
Xylenes, Total	60.0	64.6		ug/Kg		108	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

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

Lab Sample ID: LCS 410-41030/7
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethyl acetate			20.0	18.9		ug/Kg		94	65 - 133		
Ethyl ether			20.0	23.5		ug/Kg		118	59 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: LCSD 410-41030/6
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone			150	152		ug/Kg		102	57 - 128	14	30
1,2-Dibromo-3-Chloropropane			20.0	20.4		ug/Kg		102	48 - 134	12	30
Acetone			150	131		ug/Kg		87	41 - 150	7	30
1,2-Dibromoethane			20.0	21.6		ug/Kg		108	76 - 120	5	30
Acrylonitrile			100	101		ug/Kg		101	66 - 120	10	30
Benzene			20.0	23.1		ug/Kg		115	80 - 120	0	30
Bromoform			20.0	20.0		ug/Kg		100	51 - 127	7	30
Bromomethane			20.0	21.2		ug/Kg		106	45 - 140	0	30
1,1-Dichloroethane			20.0	23.3		ug/Kg		117	79 - 120	1	30
Carbon disulfide			20.0	23.5		ug/Kg		118	64 - 133	0	30
1,2-Dichloroethane			20.0	22.0		ug/Kg		110	71 - 128	3	30
Carbon tetrachloride			20.0	22.7		ug/Kg		113	64 - 134	1	30
Chlorobenzene			20.0	21.6		ug/Kg		108	80 - 120	0	30
1,1-Dichloroethene			20.0	24.8		ug/Kg		124	73 - 129	1	30
Chloroethane			20.0	21.3		ug/Kg		106	43 - 135	0	30
1,2-Dichloropropane			20.0	23.0		ug/Kg		115	80 - 120	1	30
Chloroform			20.0	23.2		ug/Kg		116	80 - 120	0	30
1,4-Dioxane			500	515		ug/Kg		103	62 - 131	15	30
Chloromethane			20.0	21.1		ug/Kg		105	56 - 120	1	30
cis-1,3-Dichloropropene			20.0	22.4		ug/Kg		112	66 - 120	3	30
Dibromomethane			20.0	22.7		ug/Kg		114	80 - 120	4	30
Dichlorodifluoromethane			20.0	17.1		ug/Kg		86	21 - 127	3	30
Ethyl methacrylate			20.0	19.7		ug/Kg		99	65 - 120	11	30
Ethylbenzene			20.0	21.4		ug/Kg		107	78 - 120	0	30
Freon 113			20.0	21.4		ug/Kg		107	64 - 135	2	30
Methacrylonitrile			150	163		ug/Kg		109	76 - 123	9	30
4-Methyl-2-pentanone			100	106		ug/Kg		106	67 - 128	14	30
Methyl iodide			20.0	21.8		ug/Kg		109	68 - 126	1	30
Methyl methacrylate			20.0	22.1		ug/Kg		111	69 - 120	10	30
1,1,1,2-Tetrachloroethane			20.0	20.7		ug/Kg		104	73 - 120	2	30
Methylene Chloride			20.0	23.6		ug/Kg		118	76 - 122	1	30
1,1,2,2-Tetrachloroethane			20.0	21.8		ug/Kg		109	69 - 125	8	30
Pentachloroethane			20.0	22.6		ug/Kg		113	68 - 126	1	30
Tetrachloroethene			20.0	21.4		ug/Kg		107	73 - 120	0	30

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

Lab Sample ID: LCSD 410-41030/6
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			20.0	21.6		ug/Kg		108	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	24.0		ug/Kg		120	80 - 126	0	30
trans-1,3-Dichloropropene			20.0	21.1		ug/Kg		106	68 - 122	5	30
1,2,4-Trichlorobenzene			20.0	20.4		ug/Kg		102	56 - 130	1	30
1,1,1-Trichloroethane			20.0	22.8		ug/Kg		114	69 - 123	0	30
1,1,2-Trichloroethane			20.0	22.6		ug/Kg		113	80 - 120	4	30
Trichloroethene			20.0	22.8		ug/Kg		114	80 - 120	2	30
Trichlorofluoromethane			20.0	21.8		ug/Kg		109	55 - 134	1	30
Vinyl chloride			20.0	20.7		ug/Kg		104	52 - 120	1	30
Xylenes, Total			60.0	64.1		ug/Kg		107	75 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*101*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-41030/8
Matrix: Solid
Analysis Batch: 41030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate			20.0	18.5		ug/Kg		93	65 - 133	2	30
Ethyl ether			20.0	23.0		ug/Kg		115	59 - 135	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Lab Sample ID: MB 410-41260/10
Matrix: Solid
Analysis Batch: 41260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	2.0	ug/Kg			09/05/20 01:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Acetone	ND		20	6.0	ug/Kg			09/05/20 01:18	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/05/20 01:18	1
Acrylonitrile	ND		20	0.80	ug/Kg			09/05/20 01:18	1
Benzene	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Bromoform	ND		10	5.0	ug/Kg			09/05/20 01:18	1
Bromomethane	ND		5.0	0.70	ug/Kg			09/05/20 01:18	1
1,1-Dichloroethane	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Carbon disulfide	ND		5.0	0.60	ug/Kg			09/05/20 01:18	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/05/20 01:18	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1

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

Lab Sample ID: MB 410-41260/10
Matrix: Solid
Analysis Batch: 41260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
1,1-Dichloroethene	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Chloroethane	ND		5.0	1.0	ug/Kg			09/05/20 01:18	1
1,2-Dichloropropane	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Chloroform	ND		5.0	0.60	ug/Kg			09/05/20 01:18	1
1,4-Dioxane	ND		250	37	ug/Kg			09/05/20 01:18	1
Chloromethane	ND		5.0	0.60	ug/Kg			09/05/20 01:18	1
cis-1,3-Dichloropropene	ND		5.0	0.40	ug/Kg			09/05/20 01:18	1
Dibromomethane	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Dichlorodifluoromethane	ND		5.0	0.60	ug/Kg			09/05/20 01:18	1
Ethyl acetate	ND		5.0	1.0	ug/Kg			09/05/20 01:18	1
Ethyl ether	ND		5.0	1.0	ug/Kg			09/05/20 01:18	1
Ethyl methacrylate	ND		5.0	1.0	ug/Kg			09/05/20 01:18	1
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/05/20 01:18	1
Freon 113	ND		10	0.60	ug/Kg			09/05/20 01:18	1
Methacrylonitrile	ND		50	8.0	ug/Kg			09/05/20 01:18	1
4-Methyl-2-pentanone	ND		10	1.0	ug/Kg			09/05/20 01:18	1
Methyl iodide	ND		5.0	0.40	ug/Kg			09/05/20 01:18	1
Methyl methacrylate	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Methylene Chloride	ND		5.0	2.0	ug/Kg			09/05/20 01:18	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.40	ug/Kg			09/05/20 01:18	1
Pentachloroethane	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Tetrachloroethene	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Toluene	ND		5.0	0.60	ug/Kg			09/05/20 01:18	1
trans-1,2-Dichloroethene	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
trans-1,3-Dichloropropene	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
1,2,4-Trichlorobenzene	ND		10	5.0	ug/Kg			09/05/20 01:18	1
1,1,1-Trichloroethane	ND		5.0	0.60	ug/Kg			09/05/20 01:18	1
1,1,2-Trichloroethane	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Trichloroethene	ND		5.0	0.50	ug/Kg			09/05/20 01:18	1
Trichlorofluoromethane	ND		5.0	0.70	ug/Kg			09/05/20 01:18	1
Vinyl chloride	ND		5.0	0.60	ug/Kg			09/05/20 01:18	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/05/20 01:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*		*09/05/20 01:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*		*09/05/20 01:18*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*		*09/05/20 01:18*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*		*09/05/20 01:18*	*1*

Lab Sample ID: LCS 410-41260/5
Matrix: Solid
Analysis Batch: 41260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	150	139		ug/Kg		93	57 - 128
1,2-Dibromo-3-Chloropropane	20.0	17.1		ug/Kg		85	48 - 134

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

Lab Sample ID: LCS 410-41260/5
Matrix: Solid
Analysis Batch: 41260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	150	130		ug/Kg		87	41 - 150
1,2-Dibromoethane	20.0	17.4		ug/Kg		87	76 - 120
Acrylonitrile	100	94.0		ug/Kg		94	66 - 120
Benzene	20.0	18.3		ug/Kg		91	80 - 120
Bromoform	20.0	16.4		ug/Kg		82	51 - 127
Bromomethane	20.0	18.2		ug/Kg		91	45 - 140
1,1-Dichloroethane	20.0	18.2		ug/Kg		91	79 - 120
Carbon disulfide	20.0	20.1		ug/Kg		100	64 - 133
1,2-Dichloroethane	20.0	18.2		ug/Kg		91	71 - 128
Carbon tetrachloride	20.0	16.6		ug/Kg		83	64 - 134
Chlorobenzene	20.0	17.0		ug/Kg		85	80 - 120
1,1-Dichloroethene	20.0	18.9		ug/Kg		94	73 - 129
Chloroethane	20.0	18.0		ug/Kg		90	43 - 135
1,2-Dichloropropane	20.0	18.4		ug/Kg		92	80 - 120
Chloroform	20.0	18.4		ug/Kg		92	80 - 120
1,4-Dioxane	500	473		ug/Kg		95	62 - 131
Chloromethane	20.0	15.6		ug/Kg		78	56 - 120
cis-1,3-Dichloropropene	20.0	17.6		ug/Kg		88	66 - 120
Dibromomethane	20.0	19.2		ug/Kg		96	80 - 120
Dichlorodifluoromethane	20.0	10.5		ug/Kg		52	21 - 127
Ethyl methacrylate	20.0	17.1		ug/Kg		85	65 - 120
Ethylbenzene	20.0	16.1		ug/Kg		80	78 - 120
Freon 113	20.0	14.4		ug/Kg		72	64 - 135
Methacrylonitrile	150	147		ug/Kg		98	76 - 123
4-Methyl-2-pentanone	100	97.5		ug/Kg		98	67 - 128
Methyl iodide	20.0	19.1		ug/Kg		95	68 - 126
Methyl methacrylate	20.0	19.7		ug/Kg		98	69 - 120
1,1,1,2-Tetrachloroethane	20.0	16.4		ug/Kg		82	73 - 120
Methylene Chloride	20.0	19.0		ug/Kg		95	76 - 122
1,1,2,2-Tetrachloroethane	20.0	18.1		ug/Kg		90	69 - 125
Pentachloroethane	20.0	20.0		ug/Kg		100	68 - 126
Tetrachloroethene	20.0	15.0		ug/Kg		75	73 - 120
Toluene	20.0	16.7		ug/Kg		84	80 - 120
trans-1,2-Dichloroethene	20.0	18.5		ug/Kg		93	80 - 126
trans-1,3-Dichloropropene	20.0	16.6		ug/Kg		83	68 - 122
1,2,4-Trichlorobenzene	20.0	15.7		ug/Kg		79	56 - 130
1,1,1-Trichloroethane	20.0	17.4		ug/Kg		87	69 - 123
1,1,2-Trichloroethane	20.0	18.6		ug/Kg		93	80 - 120
Trichloroethene	20.0	17.8		ug/Kg		89	80 - 120
Trichlorofluoromethane	20.0	16.2		ug/Kg		81	55 - 134
Vinyl chloride	20.0	16.8		ug/Kg		84	52 - 120
Xylenes, Total	60.0	48.9		ug/Kg		82	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*103*		*50 - 131*
Dibromofluoromethane (Surr)	*103*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

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

Lab Sample ID: LCS 410-41260/7
Matrix: Solid
Analysis Batch: 41260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethyl acetate			20.0	19.8		ug/Kg		99	65 - 133		
Ethyl ether			20.0	23.6		ug/Kg		118	59 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Lab Sample ID: LCSD 410-41260/6
Matrix: Solid
Analysis Batch: 41260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone			150	130		ug/Kg		87	57 - 128	6	30
1,2-Dibromo-3-Chloropropane			20.0	16.5		ug/Kg		83	48 - 134	4	30
Acetone			150	127		ug/Kg		84	41 - 150	3	30
1,2-Dibromoethane			20.0	17.6		ug/Kg		88	76 - 120	1	30
Acrylonitrile			100	87.6		ug/Kg		88	66 - 120	7	30
Benzene			20.0	18.8		ug/Kg		94	80 - 120	3	30
Bromoform			20.0	16.1		ug/Kg		80	51 - 127	2	30
Bromomethane			20.0	18.7		ug/Kg		93	45 - 140	3	30
1,1-Dichloroethane			20.0	18.7		ug/Kg		93	79 - 120	3	30
Carbon disulfide			20.0	20.7		ug/Kg		103	64 - 133	3	30
1,2-Dichloroethane			20.0	18.6		ug/Kg		93	71 - 128	2	30
Carbon tetrachloride			20.0	17.0		ug/Kg		85	64 - 134	2	30
Chlorobenzene			20.0	17.4		ug/Kg		87	80 - 120	2	30
1,1-Dichloroethene			20.0	19.3		ug/Kg		96	73 - 129	2	30
Chloroethane			20.0	18.6		ug/Kg		93	43 - 135	3	30
1,2-Dichloropropane			20.0	18.9		ug/Kg		94	80 - 120	3	30
Chloroform			20.0	18.9		ug/Kg		95	80 - 120	3	30
1,4-Dioxane			500	534		ug/Kg		107	62 - 131	12	30
Chloromethane			20.0	17.6		ug/Kg		88	56 - 120	12	30
cis-1,3-Dichloropropene			20.0	18.1		ug/Kg		91	66 - 120	3	30
Dibromomethane			20.0	18.9		ug/Kg		94	80 - 120	2	30
Dichlorodifluoromethane			20.0	10.2		ug/Kg		51	21 - 127	3	30
Ethyl methacrylate			20.0	16.8		ug/Kg		84	65 - 120	1	30
Ethylbenzene			20.0	16.7		ug/Kg		83	78 - 120	4	30
Freon 113			20.0	14.9		ug/Kg		74	64 - 135	3	30
Methacrylonitrile			150	141		ug/Kg		94	76 - 123	4	30
4-Methyl-2-pentanone			100	91.4		ug/Kg		91	67 - 128	6	30
Methyl iodide			20.0	19.6		ug/Kg		98	68 - 126	3	30
Methyl methacrylate			20.0	19.2		ug/Kg		96	69 - 120	2	30
1,1,1,2-Tetrachloroethane			20.0	16.8		ug/Kg		84	73 - 120	2	30
Methylene Chloride			20.0	19.6		ug/Kg		98	76 - 122	3	30
1,1,2,2-Tetrachloroethane			20.0	17.8		ug/Kg		89	69 - 125	1	30
Pentachloroethane			20.0	20.7		ug/Kg		103	68 - 126	3	30
Tetrachloroethene			20.0	15.3		ug/Kg		76	73 - 120	2	30

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

Lab Sample ID: LCSD 410-41260/6
Matrix: Solid
Analysis Batch: 41260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			20.0	17.2		ug/Kg		86	80 - 120	3	30
trans-1,2-Dichloroethene			20.0	18.8		ug/Kg		94	80 - 126	1	30
trans-1,3-Dichloropropene			20.0	16.8		ug/Kg		84	68 - 122	1	30
1,2,4-Trichlorobenzene			20.0	16.5		ug/Kg		83	56 - 130	5	30
1,1,1-Trichloroethane			20.0	17.7		ug/Kg		89	69 - 123	2	30
1,1,2-Trichloroethane			20.0	18.5		ug/Kg		92	80 - 120	0	30
Trichloroethene			20.0	18.3		ug/Kg		91	80 - 120	3	30
Trichlorofluoromethane			20.0	16.6		ug/Kg		83	55 - 134	2	30
Vinyl chloride			20.0	17.2		ug/Kg		86	52 - 120	3	30
Xylenes, Total			60.0	50.6		ug/Kg		84	75 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*102*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-41260/8
Matrix: Solid
Analysis Batch: 41260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate			20.0	17.8		ug/Kg		89	65 - 133	11	30
Ethyl ether			20.0	20.2		ug/Kg		101	59 - 135	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*94*		*52 - 141*

Lab Sample ID: MB 410-41591/10
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	0.30	ug/L			09/08/20 13:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			09/08/20 13:18	1
Acetone	ND		20	0.70	ug/L			09/08/20 13:18	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Acrylonitrile	ND		20	0.30	ug/L			09/08/20 13:18	1
Benzene	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Bromoform	ND		4.0	1.0	ug/L			09/08/20 13:18	1
Bromomethane	ND		1.0	0.30	ug/L			09/08/20 13:18	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Carbon disulfide	ND		5.0	0.20	ug/L			09/08/20 13:18	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/08/20 13:18	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			09/08/20 13:18	1

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

Lab Sample ID: MB 410-41591/10
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.20	ug/L			09/08/20 13:18	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Chloroethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Chloroform	ND		1.0	0.20	ug/L			09/08/20 13:18	1
1,4-Dioxane	ND		250	29	ug/L			09/08/20 13:18	1
Chloromethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Dibromomethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Ethyl acetate	ND		5.0	0.70	ug/L			09/08/20 13:18	1
Ethyl ether	ND		5.0	0.20	ug/L			09/08/20 13:18	1
Ethyl methacrylate	ND		5.0	0.20	ug/L			09/08/20 13:18	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/08/20 13:18	1
Freon 113	ND		10	0.20	ug/L			09/08/20 13:18	1
Methacrylonitrile	ND		50	6.0	ug/L			09/08/20 13:18	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			09/08/20 13:18	1
Methyl iodide	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Methyl methacrylate	ND		5.0	0.20	ug/L			09/08/20 13:18	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/08/20 13:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Pentachloroethane	ND		5.0	0.20	ug/L			09/08/20 13:18	1
Tetrachloroethene	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Toluene	ND		1.0	0.20	ug/L			09/08/20 13:18	1
trans-1,2-Dichloroethene	ND		5.0	0.20	ug/L			09/08/20 13:18	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/20 13:18	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			09/08/20 13:18	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/08/20 13:18	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Trichloroethene	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Vinyl chloride	ND		1.0	0.20	ug/L			09/08/20 13:18	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/08/20 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/08/20 13:18*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/08/20 13:18*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/08/20 13:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/08/20 13:18*	*1*

Lab Sample ID: LCS 410-41591/5
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	150	148		ug/L		99	59 - 135
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/L		97	47 - 131

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

Lab Sample ID: LCS 410-41591/5
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	150	151		ug/L		101	54 - 157
1,2-Dibromoethane	20.0	20.2		ug/L		101	77 - 120
Acrylonitrile	100	101		ug/L		101	60 - 129
Benzene	20.0	20.5		ug/L		103	80 - 120
Bromoform	20.0	19.9		ug/L		100	51 - 120
Bromomethane	20.0	15.9		ug/L		80	53 - 128
1,1-Dichloroethane	20.0	20.8		ug/L		104	80 - 120
Carbon disulfide	20.0	22.1		ug/L		111	65 - 128
1,2-Dichloroethane	20.0	19.1		ug/L		95	73 - 124
Carbon tetrachloride	20.0	21.2		ug/L		106	64 - 134
Chlorobenzene	20.0	20.7		ug/L		104	80 - 120
1,1-Dichloroethene	20.0	21.5		ug/L		108	80 - 131
Chloroethane	20.0	14.7		ug/L		74	55 - 123
1,2-Dichloropropane	20.0	20.7		ug/L		103	80 - 120
Chloroform	20.0	20.4		ug/L		102	80 - 120
1,4-Dioxane	500	493		ug/L		99	63 - 146
Chloromethane	20.0	15.9		ug/L		80	56 - 121
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	75 - 120
Dibromomethane	20.0	20.1		ug/L		100	80 - 120
Dichlorodifluoromethane	20.0	15.4		ug/L		77	41 - 127
Ethyl ether	20.0	18.0		ug/L		90	59 - 141
Ethyl methacrylate	20.0	19.7		ug/L		99	59 - 141
Ethylbenzene	20.0	20.5		ug/L		103	80 - 120
Freon 113	20.0	20.7		ug/L		104	73 - 139
Methacrylonitrile	150	152		ug/L		102	73 - 124
4-Methyl-2-pentanone	100	95.0		ug/L		95	62 - 133
Methyl iodide	20.0	19.9		ug/L		99	73 - 125
Methyl methacrylate	20.0	19.2		ug/L		96	61 - 121
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	78 - 120
Methylene Chloride	20.0	20.9		ug/L		105	80 - 120
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		99	72 - 120
Pentachloroethane	20.0	18.8		ug/L		94	70 - 120
Tetrachloroethene	20.0	22.2		ug/L		111	80 - 120
Toluene	20.0	20.6		ug/L		103	80 - 120
trans-1,2-Dichloroethene	20.0	20.6		ug/L		103	80 - 126
trans-1,3-Dichloropropene	20.0	19.9		ug/L		100	67 - 120
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	63 - 120
1,1,1-Trichloroethane	20.0	20.5		ug/L		102	67 - 126
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	80 - 120
Trichloroethene	20.0	20.6		ug/L		103	80 - 120
Trichlorofluoromethane	20.0	16.9		ug/L		85	55 - 135
Vinyl chloride	20.0	16.8		ug/L		84	56 - 120
Xylenes, Total	60.0	62.6		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*

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

Lab Sample ID: LCS 410-41591/5
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCS 410-41591/7
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethyl acetate			20.0	19.2		ug/L		96	67 - 131		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 410-41591/6
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone			150	148		ug/L		99	59 - 135	0	30
1,2-Dibromo-3-Chloropropane			20.0	20.2		ug/L		101	47 - 131	4	30
Acetone			150	163		ug/L		109	54 - 157	8	30
1,2-Dibromoethane			20.0	21.0		ug/L		105	77 - 120	4	30
Acrylonitrile			100	100		ug/L		100	60 - 129	0	30
Benzene			20.0	21.3		ug/L		106	80 - 120	4	30
Bromoform			20.0	20.6		ug/L		103	51 - 120	4	30
Bromomethane			20.0	16.2		ug/L		81	53 - 128	2	30
1,1-Dichloroethane			20.0	21.8		ug/L		109	80 - 120	5	30
Carbon disulfide			20.0	22.8		ug/L		114	65 - 128	3	30
1,2-Dichloroethane			20.0	20.0		ug/L		100	73 - 124	5	30
Carbon tetrachloride			20.0	21.8		ug/L		109	64 - 134	3	30
Chlorobenzene			20.0	21.6		ug/L		108	80 - 120	4	30
1,1-Dichloroethene			20.0	22.1		ug/L		111	80 - 131	3	30
Chloroethane			20.0	15.6		ug/L		78	55 - 123	6	30
1,2-Dichloropropane			20.0	21.5		ug/L		108	80 - 120	4	30
Chloroform			20.0	21.4		ug/L		107	80 - 120	5	30
1,4-Dioxane			500	539		ug/L		108	63 - 146	9	30
Chloromethane			20.0	16.5		ug/L		82	56 - 121	3	30
cis-1,3-Dichloropropene			20.0	21.0		ug/L		105	75 - 120	3	30
Dibromomethane			20.0	20.8		ug/L		104	80 - 120	3	30
Dichlorodifluoromethane			20.0	15.9		ug/L		80	41 - 127	4	30
Ethyl ether			20.0	20.4		ug/L		102	59 - 141	13	30
Ethyl methacrylate			20.0	20.8		ug/L		104	59 - 141	5	30
Ethylbenzene			20.0	21.6		ug/L		108	80 - 120	5	30
Freon 113			20.0	21.4		ug/L		107	73 - 139	3	30
Methacrylonitrile			150	157		ug/L		105	73 - 124	3	30
4-Methyl-2-pentanone			100	98.2		ug/L		98	62 - 133	3	30

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

Lab Sample ID: LCSD 410-41591/6
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl iodide			20.0	20.4		ug/L		102	73 - 125	3	30
Methyl methacrylate			20.0	20.4		ug/L		102	61 - 121	6	30
1,1,1,2-Tetrachloroethane			20.0	21.3		ug/L		106	78 - 120	3	30
Methylene Chloride			20.0	21.6		ug/L		108	80 - 120	3	30
1,1,2,2-Tetrachloroethane			20.0	20.9		ug/L		105	72 - 120	5	30
Pentachloroethane			20.0	21.5		ug/L		108	70 - 120	14	30
Tetrachloroethene			20.0	21.9		ug/L		110	80 - 120	2	30
Toluene			20.0	21.7		ug/L		109	80 - 120	5	30
trans-1,2-Dichloroethene			20.0	21.4		ug/L		107	80 - 126	4	30
trans-1,3-Dichloropropene			20.0	20.8		ug/L		104	67 - 120	4	30
1,2,4-Trichlorobenzene			20.0	21.0		ug/L		105	63 - 120	7	30
1,1,1-Trichloroethane			20.0	21.4		ug/L		107	67 - 126	4	30
1,1,2-Trichloroethane			20.0	21.9		ug/L		109	80 - 120	5	30
Trichloroethene			20.0	21.4		ug/L		107	80 - 120	4	30
Trichlorofluoromethane			20.0	17.3		ug/L		87	55 - 135	2	30
Vinyl chloride			20.0	17.0		ug/L		85	56 - 120	1	30
Xylenes, Total			60.0	65.5		ug/L		109	80 - 120	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 410-41591/8
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl acetate			20.0	19.6		ug/L		98	67 - 131	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-40483/1-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	ND		330	100	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2-Chloronaphthalene	ND		33	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2-Chlorophenol	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,2-Dichlorobenzene	ND		50	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40483/1-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,4-Dichlorobenzene	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4-Dichlorophenol	ND		43	20	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Bromophenyl-phenylether	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,6-Dichlorophenol	ND		50	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Chloro-3-methylphenol	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Chloroaniline	ND		170	33	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4-Dimethylphenol	ND		67	30	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4-Dinitrophenol	ND		1000	330	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4-Dinitrotoluene	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Acetophenone	ND		50	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,6-Dinitrotoluene	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Aniline	ND		500	170	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Anthracene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Benzo[a]anthracene	ND		17	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Butylbenzylphthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Chrysene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Di-n-butyl phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Di-n-octyl phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Dibenz(a,h)anthracene	ND		17	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Diethyl phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Dimethyl phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Fluoranthene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachlorobenzene	ND		17	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachlorobutadiene	ND		77	37	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachlorocyclopentadiene	ND		500	200	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
3-Methylcholanthrene	ND		57	27	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachloroethane	ND		170	33	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2-Methylphenol	ND		67	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Hexachloropropene	ND		330	100	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Methylphenol	ND		50	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Indeno[1,2,3-cd]pyrene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Isosafrole	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Nitroaniline	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Methapyrilene	ND		5000	1700	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
5-Nitro-o-toluidine	ND		500	170	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4-Nitrophenol	ND		500	170	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosodiethylamine	ND		43	20	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Naphthalene	ND		17	6.7	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosodi-n-butylamine	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Nitrobenzene	ND		67	27	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosodi-n-propylamine	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosopiperidine	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
N-Nitrosopyrrolidine	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pentachlorobenzene	ND		43	20	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pentachloronitrobenzene	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pentachlorophenol	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Phenacetin	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40483/1-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Phenol	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pronamide	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Bis(2-chloroethoxy)methane	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Bis(2-chloroethyl)ether	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pyrene	ND		17	3.3	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Bis(2-ethylhexyl) phthalate	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Pyridine	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
Safrole, Total	ND		170	67	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,2,4,5-Tetrachlorobenzene	ND		37	17	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
4,4'-Methylene bis(2-chloroaniline)	ND		500	170	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
1,2,4-Trichlorobenzene	ND		50	23	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4,5-Trichlorophenol	ND		67	30	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,4,6-Trichlorophenol	ND		57	27	ug/Kg		09/03/20 09:00	09/05/20 09:58	1
2,2'-oxybis[1-chloropropane]	ND		43	20	ug/Kg		09/03/20 09:00	09/05/20 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*34 - 117*	*09/03/20 09:00*	*09/05/20 09:58*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*10 - 136*	*09/03/20 09:00*	*09/05/20 09:58*	*1*
2-Fluorophenol (Surr)	*80*		*18 - 115*	*09/03/20 09:00*	*09/05/20 09:58*	*1*
Nitrobenzene-d5 (Surr)	*74*		*23 - 115*	*09/03/20 09:00*	*09/05/20 09:58*	*1*
p-Terphenyl-d14 (Surr)	*91*		*35 - 135*	*09/03/20 09:00*	*09/05/20 09:58*	*1*
Phenol-d5 (Surr)	*81*		*21 - 112*	*09/03/20 09:00*	*09/05/20 09:58*	*1*

Lab Sample ID: LCS 410-40483/2-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	1670	1290		ug/Kg		77	48 - 123
2-Chlorophenol	1670	1320		ug/Kg		79	51 - 109
1,2-Dichlorobenzene	1670	1180		ug/Kg		71	38 - 106
1,3-Dichlorobenzene	1670	1180		ug/Kg		71	36 - 103
1,4-Dichlorobenzene	1670	1200		ug/Kg		72	25 - 127
2,4-Dichlorophenol	1670	1450		ug/Kg		87	57 - 115
4-Bromophenyl-phenylether	1680	1440		ug/Kg		86	64 - 120
4-Chloro-3-methylphenol	1670	1430		ug/Kg		86	62 - 117
4-Chloroaniline	1670	1110		ug/Kg		67	24 - 105
2,4-Dimethylphenol	1670	1190		ug/Kg		71	47 - 95
2,4-Dinitrophenol	3340	2290		ug/Kg		68	34 - 136
2,4-Dinitrotoluene	1680	1400		ug/Kg		83	61 - 121
Acetophenone	1670	1290		ug/Kg		77	48 - 109
2,6-Dinitrotoluene	1680	1530		ug/Kg		91	66 - 122
Aniline	1670	916		ug/Kg		55	37 - 93
Anthracene	1670	1500		ug/Kg		90	67 - 120
Benzo[a]anthracene	1670	1340		ug/Kg		80	68 - 120
Benzo[a]pyrene	1670	1460		ug/Kg		87	68 - 119
Butylbenzylphthalate	1670	1390		ug/Kg		84	69 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40483/2-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1670	1340		ug/Kg		80	66 - 111
Di-n-butyl phthalate	1670	1440		ug/Kg		86	70 - 126
Di-n-octyl phthalate	1670	1420		ug/Kg		85	65 - 139
Dibenz(a,h)anthracene	1670	1630		ug/Kg		97	69 - 135
Diethyl phthalate	1670	1400		ug/Kg		84	68 - 116
Dimethyl phthalate	1670	1370		ug/Kg		82	66 - 113
Fluoranthene	1670	1460		ug/Kg		87	65 - 114
Hexachlorobenzene	1670	1440		ug/Kg		86	62 - 124
Hexachlorobutadiene	1680	1280		ug/Kg		76	39 - 120
Hexachlorocyclopentadiene	3350	2240		ug/Kg		67	13 - 115
Hexachloroethane	1680	1210		ug/Kg		72	30 - 112
2-Methylphenol	1670	1390		ug/Kg		83	52 - 116
4-Methylphenol	1670	1260		ug/Kg		75	52 - 121
Indeno[1,2,3-cd]pyrene	1670	1530		ug/Kg		92	64 - 130
4-Nitroaniline	1670	1070		ug/Kg		64	45 - 99
4-Nitrophenol	1670	1300		ug/Kg		78	54 - 125
Naphthalene	1680	1370		ug/Kg		81	49 - 104
Nitrobenzene	1670	1280		ug/Kg		77	41 - 118
N-Nitrosodi-n-propylamine	1670	1190		ug/Kg		72	49 - 108
Pentachlorophenol	1680	1280		ug/Kg		76	40 - 131
Phenanthrene	1670	1520		ug/Kg		91	67 - 116
Phenol	1670	1330		ug/Kg		79	57 - 107
Bis(2-chloroethoxy)methane	1680	1270		ug/Kg		76	52 - 110
Bis(2-chloroethyl)ether	1680	1240		ug/Kg		74	44 - 104
Pyrene	1680	1330		ug/Kg		79	67 - 109
Bis(2-ethylhexyl) phthalate	1680	1350		ug/Kg		80	65 - 132
Pyridine	1670	770		ug/Kg		46	10 - 117
1,2,4,5-Tetrachlorobenzene	1670	1380		ug/Kg		82	53 - 111
1,2,4-Trichlorobenzene	1670	1350		ug/Kg		81	46 - 109
2,4,5-Trichlorophenol	1670	1410		ug/Kg		84	62 - 121
2,4,6-Trichlorophenol	1670	1440		ug/Kg		86	60 - 120
2,2'-oxybis[1-chloropropane]	1670	1100		ug/Kg		66	44 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*96*		*10 - 136*
2-Fluorophenol (Surr)	*77*		*18 - 115*
Nitrobenzene-d5 (Surr)	*74*		*23 - 115*
p-Terphenyl-d14 (Surr)	*81*		*35 - 135*
Phenol-d5 (Surr)	*83*		*21 - 112*

Lab Sample ID: LCS 410-40483/3-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Acetylaminofluorene	1670	1470		ug/Kg		88	75 - 137
2,6-Dichlorophenol	1670	1400		ug/Kg		83	53 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40483/3-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Methylcholanthrene	1680	1250	*	ug/Kg		74	86 - 151
Hexachloropropene	1670	1480		ug/Kg		89	37 - 105
Isosafrole	1680	1410		ug/Kg		84	64 - 127
Methapyrilene	13300	10000	E	ug/Kg		75	70 - 130
5-Nitro-o-toluidine	1670	1210		ug/Kg		73	10 - 95
N-Nitrosodiethylamine	1670	1300		ug/Kg		78	36 - 118
N-Nitrosodi-n-butylamine	1680	1070		ug/Kg		63	37 - 108
N-Nitrosopiperidine	1670	1340		ug/Kg		80	51 - 111
N-Nitrosopyrrolidine	1680	1380		ug/Kg		82	51 - 121
Pentachlorobenzene	1670	1400		ug/Kg		84	52 - 130
Pentachloronitrobenzene	1670	1350		ug/Kg		81	56 - 134
Phenacetin	1680	1520		ug/Kg		91	74 - 130
Pronamide	1670	1580		ug/Kg		94	75 - 136
Safrole, Total	1670	1320		ug/Kg		79	48 - 124
4,4'-Methylene bis(2-chloroaniline)	1670	894		ug/Kg		54	24 - 114

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*34 - 117*
2,4,6-Tribromophenol (Surr)	*95*		*10 - 136*
2-Fluorophenol (Surr)	*80*		*18 - 115*
Nitrobenzene-d5 (Surr)	*72*		*23 - 115*
p-Terphenyl-d14 (Surr)	*85*		*35 - 135*
Phenol-d5 (Surr)	*84*		*21 - 112*

Lab Sample ID: LCSD 410-40483/4-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene	1670	1270		ug/Kg		76	75 - 137	14	30
2,6-Dichlorophenol	1670	1250		ug/Kg		75	53 - 122	11	30
3-Methylcholanthrene	1680	1150	*	ug/Kg		69	86 - 151	8	30
Hexachloropropene	1670	1340		ug/Kg		80	37 - 105	10	30
Isosafrole	1680	1280		ug/Kg		77	64 - 127	9	30
Methapyrilene	13300	9450	E	ug/Kg		71	70 - 130	6	30
5-Nitro-o-toluidine	1670	1130		ug/Kg		67	10 - 95	7	30
N-Nitrosodiethylamine	1670	1170		ug/Kg		70	36 - 118	11	30
N-Nitrosodi-n-butylamine	1680	991		ug/Kg		59	37 - 108	7	30
N-Nitrosopiperidine	1670	1210		ug/Kg		72	51 - 111	10	30
N-Nitrosopyrrolidine	1680	1220		ug/Kg		73	51 - 121	12	30
Pentachlorobenzene	1670	1250		ug/Kg		74	52 - 130	12	30
Pentachloronitrobenzene	1670	1200		ug/Kg		72	56 - 134	12	30
Phenacetin	1680	1340		ug/Kg		80	74 - 130	12	30
Pronamide	1670	1380		ug/Kg		83	75 - 136	13	30
Safrole, Total	1670	1210		ug/Kg		72	48 - 124	8	30
4,4'-Methylene bis(2-chloroaniline)	1670	841		ug/Kg		50	24 - 114	6	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-40483/4-A
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40483

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	74		34 - 117
2,4,6-Tribromophenol (Surr)	83		10 - 136
2-Fluorophenol (Surr)	71		18 - 115
Nitrobenzene-d5 (Surr)	65		23 - 115
p-Terphenyl-d14 (Surr)	74		35 - 135
Phenol-d5 (Surr)	75		21 - 112

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	ND		1970	1430		ug/Kg	☼	73	53 - 111
1,2,4-Trichlorobenzene	ND		1970	1390		ug/Kg	☼	70	46 - 109
1,2-Dichlorobenzene	ND		1970	1220		ug/Kg	☼	62	38 - 106
1,3-Dichlorobenzene	ND		1970	1180		ug/Kg	☼	60	36 - 103
1,4-Dichlorobenzene	ND		1970	1210		ug/Kg	☼	61	25 - 127
2,2'-oxybis[1-chloropropane]	ND		1980	1120		ug/Kg	☼	56	44 - 105
2,4,5-Trichlorophenol	ND	F1	1980	1420		ug/Kg	☼	72	62 - 121
2,4,6-Trichlorophenol	ND	F2 F1	1980	1370		ug/Kg	☼	69	60 - 120
2,4-Dichlorophenol	ND		1970	1410		ug/Kg	☼	72	57 - 115
2,4-Dimethylphenol	ND		1980	1110		ug/Kg	☼	56	47 - 95
2,4-Dinitrophenol	ND	F2 F1	3960	865	J F1	ug/Kg	☼	22	34 - 136
2,4-Dinitrotoluene	ND		1980	1240		ug/Kg	☼	63	61 - 121
2,6-Dinitrotoluene	ND		1990	1390		ug/Kg	☼	70	66 - 122
2-Chloronaphthalene	ND		1970	1300		ug/Kg	☼	66	48 - 123
2-Chlorophenol	ND		1980	1320		ug/Kg	☼	67	51 - 109
2-Methylphenol	ND		1980	1370		ug/Kg	☼	69	52 - 116
4-Bromophenyl-phenylether	ND		1980	1420		ug/Kg	☼	72	64 - 120
4-Chloro-3-methylphenol	ND		1970	1450		ug/Kg	☼	74	62 - 117
4-Chloroaniline	ND		1970	869		ug/Kg	☼	44	24 - 105
4-Methylphenol	ND		1980	1260		ug/Kg	☼	64	52 - 121
4-Nitroaniline	ND		1980	1400		ug/Kg	☼	71	45 - 99
4-Nitrophenol	ND	F1	1980	1370		ug/Kg	☼	69	54 - 125
Acetophenone	ND		1980	1320		ug/Kg	☼	67	48 - 109
Aniline	ND	F1	1970	689	F1	ug/Kg	☼	35	37 - 93
Anthracene	7.0	J	1980	1490		ug/Kg	☼	75	67 - 120
Benzo[a]anthracene	28	F1	1970	1350	F1	ug/Kg	☼	67	68 - 120
Benzo[a]pyrene	28		1980	1390		ug/Kg	☼	69	68 - 119
Butylbenzylphthalate	ND		1970	1490		ug/Kg	☼	75	69 - 125
Chrysene	31		1970	1320		ug/Kg	☼	66	66 - 111
Di-n-butyl phthalate	ND		1980	1500		ug/Kg	☼	76	70 - 126
Di-n-octyl phthalate	ND		1980	1620		ug/Kg	☼	82	65 - 139
Dibenz(a,h)anthracene	9.3	J	1980	1520		ug/Kg	☼	76	69 - 135
Diethyl phthalate	ND		1980	1340		ug/Kg	☼	68	68 - 116
Dimethyl phthalate	ND	F1	1970	1080	F1	ug/Kg	☼	55	66 - 113
Fluoranthene	44		1980	1400		ug/Kg	☼	69	65 - 114
Hexachlorobenzene	ND		1980	1390		ug/Kg	☼	70	62 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	ND		1990	1360		ug/Kg	☼	69	39 - 120
Hexachlorocyclopentadiene	ND	F1	3970	ND	F1	ug/Kg	☼	0	13 - 115
Hexachloroethane	ND	F2 F1	1980	889		ug/Kg	☼	45	30 - 112
Indeno[1,2,3-cd]pyrene	25		1980	1430		ug/Kg	☼	71	64 - 130
N-Nitrosodi-n-propylamine	ND		1970	1250		ug/Kg	☼	64	49 - 108
Naphthalene	ND		1990	1410		ug/Kg	☼	71	49 - 104
Nitrobenzene	ND		1980	1320		ug/Kg	☼	67	41 - 118
Pentachlorophenol	ND	F2 F1	1990	1090		ug/Kg	☼	55	40 - 131
Phenanthrene	26		1980	1470		ug/Kg	☼	73	67 - 116
Phenol	ND		1980	1350		ug/Kg	☼	68	41 - 107
Pyrene	41		1990	1370		ug/Kg	☼	67	67 - 109
Pyridine	ND		1970	677		ug/Kg	☼	34	10 - 117
Bis(2-chloroethoxy)methane	ND		1990	1200		ug/Kg	☼	60	52 - 110
Bis(2-chloroethyl)ether	ND		1980	1220		ug/Kg	☼	61	44 - 104
Bis(2-ethylhexyl) phthalate	ND		1990	1620		ug/Kg	☼	82	65 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 136*
2-Fluorobiphenyl (Surr)	*71*		*34 - 117*
2-Fluorophenol (Surr)	*63*		*18 - 115*
Nitrobenzene-d5 (Surr)	*62*		*23 - 115*
p-Terphenyl-d14 (Surr)	*67*		*35 - 135*
Phenol-d5 (Surr)	*68*		*21 - 112*

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1940	1460		ug/Kg	☼	75	53 - 111	2	30
1,2,4-Trichlorobenzene	ND		1940	1460		ug/Kg	☼	75	46 - 109	5	30
1,2-Dichlorobenzene	ND		1940	1270		ug/Kg	☼	65	38 - 106	4	30
1,3-Dichlorobenzene	ND		1940	1270		ug/Kg	☼	65	36 - 103	7	30
1,4-Dichlorobenzene	ND		1940	1280		ug/Kg	☼	66	25 - 127	6	30
2,2'-oxybis[1-chloropropane]	ND		1950	1210		ug/Kg	☼	62	44 - 105	8	30
2,4,5-Trichlorophenol	ND	F1	1950	1100	F1	ug/Kg	☼	56	62 - 121	25	30
2,4,6-Trichlorophenol	ND	F2 F1	1950	301	F2 F1	ug/Kg	☼	15	60 - 120	128	30
2,4-Dichlorophenol	ND		1950	1410		ug/Kg	☼	72	57 - 115	1	30
2,4-Dimethylphenol	ND		1950	1230		ug/Kg	☼	63	47 - 95	10	30
2,4-Dinitrophenol	ND	F2 F1	3900	594	J F2 F1	ug/Kg	☼	15	34 - 136	37	30
2,4-Dinitrotoluene	ND		1950	1370		ug/Kg	☼	70	61 - 121	9	30
2,6-Dinitrotoluene	ND		1960	1480		ug/Kg	☼	76	66 - 122	6	30
2-Chloronaphthalene	ND		1940	1560		ug/Kg	☼	80	48 - 123	18	30
2-Chlorophenol	ND		1950	1440		ug/Kg	☼	74	51 - 109	9	30
2-Methylphenol	ND		1950	1470		ug/Kg	☼	75	52 - 116	7	30
4-Bromophenyl-phenylether	ND		1950	1520		ug/Kg	☼	78	64 - 120	6	30
4-Chloro-3-methylphenol	ND		1940	1580		ug/Kg	☼	81	62 - 117	8	30
4-Chloroaniline	ND		1940	787		ug/Kg	☼	40	24 - 105	10	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 41328

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methylphenol	ND		1950	1370		ug/Kg	☼	70	52 - 121	9	30
4-Nitroaniline	ND		1950	1440		ug/Kg	☼	74	45 - 99	3	30
4-Nitrophenol	ND	F1	1950	ND	F1	ug/Kg	☼	0	54 - 125	NC	30
Acetophenone	ND		1950	1400		ug/Kg	☼	72	48 - 109	6	30
Aniline	ND	F1	1940	557	J F1	ug/Kg	☼	29	37 - 93	21	30
Anthracene	7.0	J	1950	1610		ug/Kg	☼	82	67 - 120	8	30
Benzo[a]anthracene	28	F1	1940	1570		ug/Kg	☼	79	68 - 120	15	30
Benzo[a]pyrene	28		1950	1510		ug/Kg	☼	76	68 - 119	8	30
Butylbenzylphthalate	ND		1950	1640		ug/Kg	☼	84	69 - 125	10	30
Chrysene	31		1940	1460		ug/Kg	☼	74	66 - 111	10	30
Di-n-butyl phthalate	ND		1950	1620		ug/Kg	☼	83	70 - 126	8	30
Di-n-octyl phthalate	ND		1950	1730		ug/Kg	☼	89	65 - 139	6	30
Dibenz(a,h)anthracene	9.3	J	1950	1620		ug/Kg	☼	83	69 - 135	6	30
Diethyl phthalate	ND		1950	1460		ug/Kg	☼	75	68 - 116	9	30
Dimethyl phthalate	ND	F1	1950	1380		ug/Kg	☼	71	66 - 113	25	30
Fluoranthene	44		1950	1550		ug/Kg	☼	77	65 - 114	10	30
Hexachlorobenzene	ND		1950	1450		ug/Kg	☼	75	62 - 124	4	30
Hexachlorobutadiene	ND		1960	1400		ug/Kg	☼	71	39 - 120	3	30
Hexachlorocyclopentadiene	ND	F1	3910	ND	F1	ug/Kg	☼	0	13 - 115	NC	30
Hexachloroethane	ND	F2 F1	1950	493	F2 F1	ug/Kg	☼	25	30 - 112	57	30
Indeno[1,2,3-cd]pyrene	25		1950	1520		ug/Kg	☼	77	64 - 130	6	30
N-Nitrosodi-n-propylamine	ND		1940	1320		ug/Kg	☼	68	49 - 108	5	30
Naphthalene	ND		1960	1480		ug/Kg	☼	76	49 - 104	5	30
Nitrobenzene	ND		1950	1370		ug/Kg	☼	70	41 - 118	4	30
Pentachlorophenol	ND	F2 F1	1960	449	F2 F1	ug/Kg	☼	23	40 - 131	83	30
Phenanthrene	26		1950	1620		ug/Kg	☼	82	67 - 116	9	30
Phenol	ND		1950	1480		ug/Kg	☼	76	41 - 107	9	30
Pyrene	41		1960	1540		ug/Kg	☼	77	67 - 109	12	30
Pyridine	ND		1940	829		ug/Kg	☼	43	10 - 117	20	30
Bis(2-chloroethoxy)methane	ND		1960	1360		ug/Kg	☼	69	52 - 110	12	30
Bis(2-chloroethyl)ether	ND		1960	1410		ug/Kg	☼	72	44 - 104	14	30
Bis(2-ethylhexyl) phthalate	ND		1960	1730		ug/Kg	☼	89	65 - 132	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*10*		*10 - 136*
2-Fluorobiphenyl (Surr)	*73*		*34 - 117*
2-Fluorophenol (Surr)	*69*		*18 - 115*
Nitrobenzene-d5 (Surr)	*68*		*23 - 115*
p-Terphenyl-d14 (Surr)	*75*		*35 - 135*
Phenol-d5 (Surr)	*74*		*21 - 112*

Lab Sample ID: MB 410-40543/1-A
Matrix: Water
Analysis Batch: 43244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Acetylaminofluorene	ND		21	10	ug/L		09/03/20 09:30	09/12/20 17:54	1
2-Chloronaphthalene	ND		1.0	0.40	ug/L		09/03/20 09:30	09/12/20 17:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40543/1-A
Matrix: Water
Analysis Batch: 43244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,4-Dichlorophenol	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
4-Bromophenyl-phenylether	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,6-Dichlorophenol	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
4-Chloro-3-methylphenol	ND		3.5	1.6	ug/L		09/03/20 09:30	09/12/20 17:54	1
4-Chloroaniline	ND		10	4.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,4-Dimethylphenol	ND		10	3.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,4-Dinitrophenol	ND		30	14	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,4-Dinitrotoluene	ND		5.0	1.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Acetophenone	ND		10	4.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,6-Dinitrotoluene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Aniline	ND		10	3.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Anthracene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Butylbenzylphthalate	ND		5.0	2.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Chrysene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Di-n-butyl phthalate	ND		5.0	2.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Di-n-octyl phthalate	ND		11	5.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Diethyl phthalate	ND		5.0	2.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Dimethyl phthalate	ND		5.0	2.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Fluoranthene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Hexachlorobenzene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Hexachlorocyclopentadiene	ND		11	5.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
3-Methylcholanthrene	ND		10	4.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Hexachloroethane	ND		5.0	1.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
2-Methylphenol	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Hexachloropropene	ND		5.0	2.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
4-Methylphenol	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Isosafrole	ND		10	4.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
4-Nitroaniline	ND		3.0	0.90	ug/L		09/03/20 09:30	09/12/20 17:54	1
Methapyrilene	ND		50	15	ug/L		09/03/20 09:30	09/12/20 17:54	1
5-Nitro-o-toluidine	ND		10	4.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
4-Nitrophenol	ND		30	10	ug/L		09/03/20 09:30	09/12/20 17:54	1
N-Nitrosodiethylamine	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Naphthalene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
N-Nitrosodi-n-butylamine	ND		25	12	ug/L		09/03/20 09:30	09/12/20 17:54	1
Nitrobenzene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
N-Nitrosodi-n-propylamine	ND		3.0	0.70	ug/L		09/03/20 09:30	09/12/20 17:54	1
N-Nitrosopiperidine	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
N-Nitrosopyrrolidine	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Pentachlorobenzene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Pentachloronitrobenzene	ND		5.0	2.0	ug/L		09/03/20 09:30	09/12/20 17:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-40543/1-A
Matrix: Water
Analysis Batch: 43244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.0	1.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Phenacetin	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Phenanthrene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Phenol	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Pronamide	ND		5.0	1.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Bis(2-chloroethoxy)methane	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Bis(2-chloroethyl)ether	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
Pyrene	ND		0.50	0.10	ug/L		09/03/20 09:30	09/12/20 17:54	1
Bis(2-ethylhexyl) phthalate	ND		11	5.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Pyridine	ND		5.0	2.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
Safrole, Total	ND		5.0	2.0	ug/L		09/03/20 09:30	09/12/20 17:54	1
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
4,4'-Methylene bis(2-chloroaniline)	ND		200	71	ug/L		09/03/20 09:30	09/12/20 17:54	1
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,4,6-Trichlorophenol	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1
2,2'-oxybis[1-chloropropane]	ND		2.0	0.50	ug/L		09/03/20 09:30	09/12/20 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*44 - 102*	*09/03/20 09:30*	*09/12/20 17:54*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*18 - 141*	*09/03/20 09:30*	*09/12/20 17:54*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 84*	*09/03/20 09:30*	*09/12/20 17:54*	*1*
Nitrobenzene-d5 (Surr)	*74*		*38 - 113*	*09/03/20 09:30*	*09/12/20 17:54*	*1*
p-Terphenyl-d14 (Surr)	*80*		*34 - 128*	*09/03/20 09:30*	*09/12/20 17:54*	*1*
Phenol-d5 (Surr)	*27*		*10 - 67*	*09/03/20 09:30*	*09/12/20 17:54*	*1*

Lab Sample ID: LCS 410-40543/2-A
Matrix: Water
Analysis Batch: 43244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	50.0	47.8		ug/L		96	51 - 107
2-Chlorophenol	50.2	35.5		ug/L		71	57 - 105
1,2-Dichlorobenzene	50.0	35.2		ug/L		70	35 - 104
1,3-Dichlorobenzene	50.0	33.5		ug/L		67	28 - 103
1,4-Dichlorobenzene	50.0	33.6		ug/L		67	34 - 97
2,4-Dichlorophenol	50.1	46.1		ug/L		92	65 - 110
4-Bromophenyl-phenylether	50.3	50.5		ug/L		100	60 - 114
4-Chloro-3-methylphenol	50.0	43.9		ug/L		88	60 - 118
4-Chloroaniline	50.0	39.7		ug/L		79	45 - 111
2,4-Dimethylphenol	50.1	40.1		ug/L		80	53 - 93
2,4-Dinitrophenol	100	73.0		ug/L		73	44 - 134
2,4-Dinitrotoluene	50.3	50.7		ug/L		101	66 - 122
Acetophenone	50.1	42.1		ug/L		84	61 - 114
2,6-Dinitrotoluene	50.3	51.5		ug/L		102	71 - 120
Aniline	50.0	24.3		ug/L		49	45 - 87
Anthracene	50.1	48.9		ug/L		98	67 - 116
Benzo[a]anthracene	50.0	53.9		ug/L		108	68 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40543/2-A
Matrix: Water
Analysis Batch: 43244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	50.2	48.6		ug/L		97	71 - 117
Butylbenzylphthalate	50.0	35.0		ug/L		70	40 - 133
Chrysene	50.0	51.3		ug/L		102	65 - 121
Di-n-butyl phthalate	50.2	43.0		ug/L		86	58 - 125
Di-n-octyl phthalate	50.2	44.4		ug/L		88	60 - 136
Dibenz(a,h)anthracene	50.2	51.4		ug/L		102	63 - 128
Diethyl phthalate	50.1	38.2		ug/L		76	41 - 126
Dimethyl phthalate	50.0	22.2		ug/L		44	10 - 134
Fluoranthene	50.1	54.3		ug/L		108	63 - 122
Hexachlorobenzene	50.1	53.2		ug/L		106	60 - 117
Hexachlorobutadiene	50.4	43.7		ug/L		87	20 - 108
Hexachlorocyclopentadiene	101	16.6		ug/L		17	10 - 91
Hexachloroethane	50.3	28.6		ug/L		57	23 - 95
2-Methylphenol	50.2	35.8		ug/L		71	53 - 107
4-Methylphenol	50.1	36.3		ug/L		73	49 - 108
Indeno[1,2,3-cd]pyrene	50.2	49.9		ug/L		99	59 - 123
4-Nitroaniline	50.1	41.5		ug/L		83	55 - 113
4-Nitrophenol	50.1	29.6	J	ug/L		59	23 - 89
Naphthalene	50.4	44.9		ug/L		89	51 - 102
Nitrobenzene	50.2	47.0		ug/L		94	59 - 109
N-Nitrosodi-n-propylamine	50.0	43.3		ug/L		87	58 - 120
Pentachlorophenol	50.4	42.6		ug/L		85	54 - 131
Phenanthrene	50.2	49.8		ug/L		99	65 - 113
Phenol	50.2	20.8		ug/L		41	19 - 79
Bis(2-chloroethoxy)methane	50.4	47.0		ug/L		93	63 - 116
Bis(2-chloroethyl)ether	50.3	38.2		ug/L		76	58 - 108
Pyrene	50.4	48.4		ug/L		96	65 - 115
Bis(2-ethylhexyl) phthalate	50.3	45.5		ug/L		90	61 - 129
Pyridine	50.0	23.4		ug/L		47	23 - 64
1,2,4,5-Tetrachlorobenzene	50.0	47.6		ug/L		95	40 - 102
1,2,4-Trichlorobenzene	50.0	43.8		ug/L		88	34 - 106
2,4,5-Trichlorophenol	50.2	48.4		ug/L		96	66 - 118
2,4,6-Trichlorophenol	50.1	46.7		ug/L		93	69 - 117
2,2'-oxybis[1-chloropropane]	50.2	37.9		ug/L		75	48 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*92*		*44 - 102*
2,4,6-Tribromophenol (Surr)	*90*		*18 - 141*
2-Fluorophenol (Surr)	*46*		*10 - 84*
Nitrobenzene-d5 (Surr)	*89*		*38 - 113*
p-Terphenyl-d14 (Surr)	*91*		*34 - 128*
Phenol-d5 (Surr)	*35*		*10 - 67*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-40543/3-A
Matrix: Water
Analysis Batch: 43244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Acetylaminofluorene	50.0	46.0		ug/L		92	59 - 135
2,6-Dichlorophenol	50.2	44.1		ug/L		88	50 - 113
3-Methylcholanthrene	50.3	48.0		ug/L		95	69 - 162
Hexachloropropene	50.0	19.0		ug/L		38	10 - 92
Isosafrole	50.3	46.8		ug/L		93	62 - 129
Methapyrilene	400	ND	*	ug/L		0.8	45 - 155
5-Nitro-o-toluidine	50.1	39.7		ug/L		79	57 - 109
N-Nitrosodiethylamine	50.2	43.9		ug/L		87	63 - 106
N-Nitrosodi-n-butylamine	50.4	39.3		ug/L		78	49 - 104
N-Nitrosopiperidine	50.1	45.2		ug/L		90	68 - 110
N-Nitrosopyrrolidine	50.3	43.2		ug/L		86	65 - 115
Pentachlorobenzene	50.2	39.3		ug/L		78	36 - 109
Pentachloronitrobenzene	50.0	43.5		ug/L		87	60 - 112
Phenacetin	50.3	44.0		ug/L		87	67 - 128
Pronamide	50.1	46.6		ug/L		93	73 - 117
Safrole, Total	50.2	42.7		ug/L		85	62 - 104
4,4'-Methylene bis(2-chloroaniline)	50.1	ND		ug/L		68	36 - 109

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*44 - 102*
2,4,6-Tribromophenol (Surr)	*91*		*18 - 141*
2-Fluorophenol (Surr)	*56*		*10 - 84*
Nitrobenzene-d5 (Surr)	*84*		*38 - 113*
p-Terphenyl-d14 (Surr)	*79*		*34 - 128*
Phenol-d5 (Surr)	*44*		*10 - 67*

Lab Sample ID: LCSD 410-40543/4-A
Matrix: Water
Analysis Batch: 43244

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40543

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Acetylaminofluorene	50.0	48.8		ug/L		98	59 - 135	6	30
2,6-Dichlorophenol	50.2	47.7		ug/L		95	50 - 113	8	30
3-Methylcholanthrene	50.3	48.9		ug/L		97	69 - 162	2	30
Hexachloropropene	50.0	22.4		ug/L		45	10 - 92	16	30
Isosafrole	50.3	46.7		ug/L		93	62 - 129	0	30
Methapyrilene	400	172	E * *1	ug/L		43	45 - 155	193	30
5-Nitro-o-toluidine	50.1	42.7		ug/L		85	57 - 109	7	30
N-Nitrosodiethylamine	50.2	47.1		ug/L		94	63 - 106	7	30
N-Nitrosodi-n-butylamine	50.4	42.3		ug/L		84	49 - 104	7	30
N-Nitrosopiperidine	50.1	47.3		ug/L		94	68 - 110	5	30
N-Nitrosopyrrolidine	50.3	44.0		ug/L		87	65 - 115	2	30
Pentachlorobenzene	50.2	44.5		ug/L		89	36 - 109	12	30
Pentachloronitrobenzene	50.0	46.6		ug/L		93	60 - 112	7	30
Phenacetin	50.3	47.1		ug/L		94	67 - 128	7	30
Pronamide	50.1	50.0		ug/L		100	73 - 117	7	30
Safrole, Total	50.2	46.3		ug/L		92	62 - 104	8	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-40543/4-A
Matrix: Water
Analysis Batch: 43244

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40543

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-Methylene bis(2-chloroaniline)			50.1	ND		ug/L		74	36 - 109	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*44 - 102*
2,4,6-Tribromophenol (Surr)	*96*		*18 - 141*
2-Fluorophenol (Surr)	*54*		*10 - 84*
Nitrobenzene-d5 (Surr)	*87*		*38 - 113*
p-Terphenyl-d14 (Surr)	*80*		*34 - 128*
Phenol-d5 (Surr)	*39*		*10 - 67*

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 410-41594/1-A
Matrix: Water
Analysis Batch: 41600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	140	ug/L		09/08/20 09:15	09/08/20 11:13	1
Isobutanol (1C)	ND		1000	150	ug/L		09/08/20 09:15	09/08/20 11:13	1
Methanol (2C)	ND		1000	220	ug/L		09/08/20 09:15	09/08/20 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetone (1C)	*139*		*58 - 149*	*09/08/20 09:15*	*09/08/20 11:13*	*1*
Acetone (2C)	*104*		*58 - 149*	*09/08/20 09:15*	*09/08/20 11:13*	*1*

Lab Sample ID: LCS 410-41594/2-A
Matrix: Water
Analysis Batch: 41600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Butanol (1C)			2650	2380		ug/L		90	82 - 115
Isobutanol (1C)			2790	2680		ug/L		96	66 - 120
Methanol (2C)			2510	2240		ug/L		89	79 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Acetone (1C)	*104*		*58 - 149*
Acetone (2C)	*84*		*58 - 149*

Lab Sample ID: MB 410-40088/1-A
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Butanol (1C)	ND		1000	200	ug/Kg			09/08/20 17:08	1
Isobutanol (1C)	ND		1000	170	ug/Kg			09/08/20 17:08	1
Methanol (2C)	ND		1000	200	ug/Kg			09/08/20 17:08	1

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: MB 410-40088/1-A
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: Method Blank
Prep Type: Soluble

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetone (1C)	132		10 - 179		09/08/20 17:08	1
Acetone (2C)	104		10 - 179		09/08/20 17:08	1

Lab Sample ID: LCS 410-40088/2-A
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1-Butanol (1C)			2660	3010		ug/Kg		113	70 - 130		
Isobutanol (1C)			2800	3100		ug/Kg		111	77 - 118		
Methanol (2C)			2510	2600		ug/Kg		104	76 - 119		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Acetone (1C)	101		10 - 179
Acetone (2C)	94		10 - 179

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1-Butanol (1C)	ND		3130	2510		ug/Kg	☼	80			
Isobutanol (1C)	ND		3300	2960		ug/Kg	☼	90	77 - 118		
Methanol (2C)	ND		2960	2930		ug/Kg	☼	99	76 - 119		

Surrogate	MS %Recovery	MS Qualifier	Limits
Acetone (1C)	96		10 - 179
Acetone (2C)	88		10 - 179

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 41600

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Butanol (1C)	ND		3150	3000		ug/Kg	☼	95		18	
Isobutanol (1C)	ND		3310	3060		ug/Kg	☼	92	77 - 118	3	20
Methanol (2C)	ND		2970	2850		ug/Kg	☼	96	76 - 119	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Acetone (1C)	86		10 - 179
Acetone (2C)	83		10 - 179

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 410-40303/1-A
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.83	0.17	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
alpha-Chlordane (1C)	ND		0.83	0.17	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
beta-BHC (1C)	ND		1.0	0.44	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
delta-BHC (1C)	ND		1.0	0.45	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Endosulfan I (1C)	ND		0.83	0.22	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Endosulfan II (1C)	ND		2.3	1.1	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Endosulfan sulfate (1C)	ND		1.7	0.33	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Endrin (1C)	ND		1.7	0.68	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
gamma-BHC (Lindane) (1C)	ND		0.83	0.21	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
gamma-Chlordane (1C)	ND		0.83	0.25	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Heptachlor (1C)	ND		0.83	0.31	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Heptachlor epoxide (1C)	ND		0.83	0.17	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Methoxychlor (1C)	ND		6.7	1.8	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Toxaphene (1C)	ND		33	14	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
p,p'-DDD (1C)	ND		1.7	0.33	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
p,p'-DDE (1C)	ND		1.7	0.33	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
p,p'-DDT (1C)	ND		1.7	0.79	ug/Kg		09/02/20 16:38	09/04/20 05:34	1
Chlordane (n.o.s.) (1C)	ND		17	4.0	ug/Kg		09/02/20 16:38	09/04/20 05:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*111*		*46 - 152*	*09/02/20 16:38*	*09/04/20 05:34*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*112*		*46 - 152*	*09/02/20 16:38*	*09/04/20 05:34*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*52*		*19 - 136*	*09/02/20 16:38*	*09/04/20 05:34*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*45*		*19 - 136*	*09/02/20 16:38*	*09/04/20 05:34*	*1*

Lab Sample ID: LCS 410-40303/2-A
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (1C)	3.38	2.88		ug/Kg		85	65 - 124
alpha-Chlordane (2C)	3.33	2.76		ug/Kg		83	73 - 131
beta-BHC (1C)	3.33	2.67		ug/Kg		80	68 - 129
delta-BHC (1C)	3.33	2.72		ug/Kg		82	45 - 151
Endosulfan I (2C)	3.33	2.78		ug/Kg		84	62 - 119
Endosulfan II (2C)	6.67	6.01		ug/Kg		90	65 - 126
Endosulfan sulfate (1C)	6.67	6.59		ug/Kg		99	71 - 132
Endrin (2C)	6.67	5.78		ug/Kg		87	86 - 135
gamma-BHC (Lindane) (1C)	3.33	2.79		ug/Kg		84	68 - 133
gamma-Chlordane (2C)	3.33	2.86		ug/Kg		86	76 - 134
Heptachlor (1C)	3.33	2.63		ug/Kg		79	66 - 118
Heptachlor epoxide (2C)	3.38	2.68		ug/Kg		79	74 - 128
Methoxychlor (1C)	33.3	33.7		ug/Kg		101	88 - 145
p,p'-DDD (2C)	6.71	6.02		ug/Kg		90	69 - 138
p,p'-DDE (2C)	6.67	5.80		ug/Kg		87	68 - 146
p,p'-DDT (1C)	6.71	6.03		ug/Kg		90	67 - 135

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 410-40303/2-A
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40303

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	117		46 - 152
DCB Decachlorobiphenyl (Surr) (2C)	118		46 - 152
Tetrachloro-m-xylene (Surr) (1C)	62		19 - 136
Tetrachloro-m-xylene (Surr) (2C)	53		19 - 136

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40303

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (1C)	ND		3.96	2.92		ug/Kg	☼	74	65 - 124
alpha-Chlordane (2C)	3.4	F1	3.91	8.16	E	ug/Kg	☼	121	73 - 131
beta-BHC (1C)	ND	F1	3.91	2.80		ug/Kg	☼	72	68 - 129
delta-BHC (1C)	ND	F1	3.91	2.21		ug/Kg	☼	57	45 - 151
Endosulfan I (1C)	ND	F1	3.91	2.37	F1 p	ug/Kg	☼	61	62 - 119
Endosulfan II (1C)	ND	F1	7.82	5.15		ug/Kg	☼	66	65 - 126
Endosulfan sulfate (1C)	ND		7.82	6.21		ug/Kg	☼	79	71 - 132
Endrin (1C)	ND	F1	7.82	5.36	F1	ug/Kg	☼	68	86 - 135
gamma-BHC (Lindane) (1C)	ND	F1	3.91	2.90		ug/Kg	☼	74	68 - 133
gamma-Chlordane (1C)	3.8	F1	3.91	8.34	E	ug/Kg	☼	116	76 - 134
Heptachlor (1C)	ND		3.91	2.71		ug/Kg	☼	69	66 - 118
Heptachlor epoxide (1C)	0.96	J F1	3.96	3.77	F1	ug/Kg	☼	71	74 - 128
Methoxychlor (1C)	ND		39.1	40.2		ug/Kg	☼	103	88 - 145
p,p'-DDD (2C)	ND	F1	7.87	6.39		ug/Kg	☼	81	69 - 138
p,p'-DDE (1C)	ND		7.82	6.13		ug/Kg	☼	78	68 - 146
p,p'-DDT (1C)	ND		7.87	7.21		ug/Kg	☼	92	67 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	94		46 - 152
DCB Decachlorobiphenyl (Surr) (2C)	85		46 - 152
Tetrachloro-m-xylene (Surr) (1C)	87		19 - 136
Tetrachloro-m-xylene (Surr) (2C)	60		19 - 136

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40303

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC (1C)	ND		3.94	2.74		ug/Kg	☼	69	65 - 124	7	50
alpha-Chlordane (2C)	3.4	F1	3.89	10.7	E F1	ug/Kg	☼	187	73 - 131	27	50
beta-BHC (1C)	ND	F1	3.89	2.88		ug/Kg	☼	74	68 - 129	3	50
delta-BHC (1C)	ND	F1	3.89	1.52	F1	ug/Kg	☼	39	45 - 151	37	50

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 40934

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40303

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan I (1C)	ND	F1	3.89	1.87	p F1	ug/Kg	☼	48	62 - 119	24	50
Endosulfan II (1C)	ND	F1	7.79	4.08	F1	ug/Kg	☼	52	65 - 126	23	50
Endosulfan sulfate (1C)	ND		7.79	5.91		ug/Kg	☼	76	71 - 132	5	50
Endrin (2C)	ND	F1	7.79	5.75	F1	ug/Kg	☼	74	86 - 135	7	50
gamma-BHC (Lindane) (1C)	ND	F1	3.89	2.36	F1	ug/Kg	☼	61	68 - 133	21	50
gamma-Chlordane (1C)	3.8	F1	3.89	11.5	E F1	ug/Kg	☼	196	76 - 134	31	50
Heptachlor (1C)	ND		3.89	2.72		ug/Kg	☼	70	66 - 118	0	50
Heptachlor epoxide (1C)	0.96	J F1	3.94	4.47		ug/Kg	☼	89	74 - 128	17	50
Methoxychlor (1C)	ND		38.9	42.2		ug/Kg	☼	108	88 - 145	5	50
p,p'-DDD (2C)	ND	F1	7.83	6.91		ug/Kg	☼	88	69 - 138	8	50
p,p'-DDE (1C)	ND		7.79	6.54		ug/Kg	☼	84	68 - 146	6	50
p,p'-DDT (1C)	ND		7.83	7.54		ug/Kg	☼	96	67 - 135	5	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*98*		*46 - 152*
DCB Decachlorobiphenyl (Surr) (2C)	*84*		*46 - 152*
Tetrachloro-m-xylene (Surr) (1C)	*88*		*19 - 136*
Tetrachloro-m-xylene (Surr) (2C)	*70*		*19 - 136*

Lab Sample ID: MB 410-40820/1-A
Matrix: Water
Analysis Batch: 40932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC (1C)	ND		0.020	0.0030	ug/L		09/03/20 20:15	09/04/20 08:56	1
alpha-Chlordane (1C)	ND		0.020	0.0030	ug/L		09/03/20 20:15	09/04/20 08:56	1
beta-BHC (1C)	ND		0.020	0.0034	ug/L		09/03/20 20:15	09/04/20 08:56	1
delta-BHC (1C)	ND		0.020	0.0034	ug/L		09/03/20 20:15	09/04/20 08:56	1
Endosulfan I (1C)	ND		0.020	0.0043	ug/L		09/03/20 20:15	09/04/20 08:56	1
Endosulfan II (1C)	ND		0.040	0.015	ug/L		09/03/20 20:15	09/04/20 08:56	1
Endosulfan sulfate (1C)	ND		0.030	0.0058	ug/L		09/03/20 20:15	09/04/20 08:56	1
Endrin (1C)	ND		0.030	0.0081	ug/L		09/03/20 20:15	09/04/20 08:56	1
gamma-BHC (Lindane) (1C)	ND		0.020	0.0020	ug/L		09/03/20 20:15	09/04/20 08:56	1
gamma-Chlordane (1C)	ND		0.040	0.0070	ug/L		09/03/20 20:15	09/04/20 08:56	1
Heptachlor (1C)	ND		0.020	0.0020	ug/L		09/03/20 20:15	09/04/20 08:56	1
Heptachlor epoxide (1C)	ND		0.020	0.0023	ug/L		09/03/20 20:15	09/04/20 08:56	1
Methoxychlor (1C)	ND		0.11	0.030	ug/L		09/03/20 20:15	09/04/20 08:56	1
Toxaphene (1C)	ND		1.0	0.30	ug/L		09/03/20 20:15	09/04/20 08:56	1
p,p'-DDD (1C)	ND		0.030	0.0050	ug/L		09/03/20 20:15	09/04/20 08:56	1
p,p'-DDE (1C)	ND		0.030	0.0050	ug/L		09/03/20 20:15	09/04/20 08:56	1
p,p'-DDT (1C)	ND		0.030	0.0052	ug/L		09/03/20 20:15	09/04/20 08:56	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.16	ug/L		09/03/20 20:15	09/04/20 08:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*87*		*32 - 149*	*09/03/20 20:15*	*09/04/20 08:56*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 410-40820/1-A
Matrix: Water
Analysis Batch: 40932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40820

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (2C)	91		32 - 149	09/03/20 20:15	09/04/20 08:56	1
Tetrachloro-m-xylene (Surr) (1C)	53		29 - 129	09/03/20 20:15	09/04/20 08:56	1
Tetrachloro-m-xylene (Surr) (2C)	60		29 - 129	09/03/20 20:15	09/04/20 08:56	1

Lab Sample ID: LCS 410-40820/2-A
Matrix: Water
Analysis Batch: 40932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC (2C)	0.101	0.105		ug/L		104	47 - 132
alpha-Chlordane (2C)	0.100	0.0964		ug/L		96	28 - 136
beta-BHC (1C)	0.100	0.101		ug/L		101	27 - 143
delta-BHC (2C)	0.100	0.104		ug/L		104	28 - 141
Endosulfan I (1C)	0.100	0.102		ug/L		102	40 - 138
Endosulfan II (2C)	0.200	0.209		ug/L		104	27 - 138
Endosulfan sulfate (1C)	0.200	0.221		ug/L		111	41 - 133
Endrin (2C)	0.200	0.189		ug/L		94	35 - 143
gamma-BHC (Lindane) (2C)	0.100	0.101		ug/L		101	29 - 136
gamma-Chlordane (2C)	0.100	0.0973		ug/L		97	53 - 130
Heptachlor (1C)	0.100	0.0761		ug/L		76	38 - 135
Heptachlor epoxide (2C)	0.101	0.101		ug/L		100	28 - 146
Methoxychlor (2C)	1.00	1.41		ug/L		141	39 - 143
p,p'-DDD (2C)	0.201	0.210		ug/L		105	42 - 148
p,p'-DDE (2C)	0.200	0.173		ug/L		86	22 - 138
p,p'-DDT (1C)	0.201	0.258		ug/L		128	40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	66		32 - 149
DCB Decachlorobiphenyl (Surr) (2C)	73		32 - 149
Tetrachloro-m-xylene (Surr) (1C)	54		29 - 129
Tetrachloro-m-xylene (Surr) (2C)	65		29 - 129

Lab Sample ID: LCSD 410-40820/3-A
Matrix: Water
Analysis Batch: 40932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40820

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC (2C)	0.101	0.0966		ug/L		95	47 - 132	8	30
alpha-Chlordane (1C)	0.100	0.0895		ug/L		90	28 - 136	7	30
beta-BHC (1C)	0.100	0.0959		ug/L		96	27 - 143	5	30
delta-BHC (2C)	0.100	0.0966		ug/L		97	28 - 141	7	30
Endosulfan I (1C)	0.100	0.0922		ug/L		92	40 - 138	10	30
Endosulfan II (2C)	0.200	0.196		ug/L		98	27 - 138	6	30
Endosulfan sulfate (1C)	0.200	0.207		ug/L		104	41 - 133	7	30
Endrin (1C)	0.200	0.192		ug/L		96	35 - 143	2	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 410-40820/3-A
Matrix: Water
Analysis Batch: 40932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40820

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
gamma-BHC (Lindane) (2C)			0.100	0.0938		ug/L		94	29 - 136	7	30
gamma-Chlordane (2C)			0.100	0.0961		ug/L		96	53 - 130	1	30
Heptachlor (2C)			0.100	0.0755		ug/L		75	38 - 135	1	30
Heptachlor epoxide (1C)			0.101	0.0967		ug/L		95	28 - 146	4	30
Methoxychlor (2C)			1.00	1.29		ug/L		129	39 - 143	9	30
p,p'-DDD (1C)			0.201	0.200		ug/L		99	42 - 148	5	30
p,p'-DDE (1C)			0.200	0.166		ug/L		83	22 - 138	4	30
p,p'-DDT (1C)			0.201	0.242		ug/L		120	40 - 145	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*83*		*32 - 149*
DCB Decachlorobiphenyl (Surr) (2C)	*88*		*32 - 149*
Tetrachloro-m-xylene (Surr) (1C)	*53*		*29 - 129*
Tetrachloro-m-xylene (Surr) (2C)	*61*		*29 - 129*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-39435/1-A
Matrix: Water
Analysis Batch: 39571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		0.050	0.010	ug/L		08/31/20 20:09	09/02/20 03:21	1
2,4-D (1C)	ND		0.60	0.25	ug/L		08/31/20 20:09	09/02/20 03:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*57*		*34 - 142*	*08/31/20 20:09*	*09/02/20 03:21*	*1*

Lab Sample ID: LCS 410-39435/2-A
Matrix: Water
Analysis Batch: 39571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP) (1C)			0.250	0.171	*	ug/L		68	81 - 137
2,4-D (2C)			2.51	1.48	*	ug/L		59	70 - 134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*61*		*34 - 142*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 410-39435/3-A
Matrix: Water
Analysis Batch: 39571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39435

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP) (1C)			0.250	0.193	*	ug/L		77	81 - 137	12	30
2,4-D (2C)			2.51	1.67	*	ug/L		66	70 - 134	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*68*		*34 - 142*

Lab Sample ID: MB 410-42789/1-A
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		1.7	0.75	ug/Kg		09/10/20 19:40	09/14/20 19:57	1
2,4-D (1C)	ND		36	12	ug/Kg		09/10/20 19:40	09/14/20 19:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*56*		*27 - 136*	*09/10/20 19:40*	*09/14/20 19:57*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*56*		*27 - 136*	*09/10/20 19:40*	*09/14/20 19:57*	*1*

Lab Sample ID: LCS 410-42789/2-A
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42789

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP) (2C)			8.33	1.85	*	ug/Kg		22	49 - 133
2,4-D (2C)			83.6	17.7	J *	ug/Kg		21	57 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*11*	*X*	*27 - 136*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*9*	*X*	*27 - 136*

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 42789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP) (1C)	ND	F2 F1 *	9.82	6.24	F1	ug/Kg	☼	64	70 - 130
2,4-D (1C)	ND	F2 F1 *	98.5	56.6		ug/Kg	☼	57	57 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*57*		*27 - 136*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*55*		*27 - 136*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 43820

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 42789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP) (2C)	ND	F2 F1 *	9.72	1.43	J F2 F1	ug/Kg	☼	15	70 - 130	125	50
2,4-D (2C)	ND	F2 F1 *	97.5	15.4	J F2 F1	ug/Kg	☼	16	57 - 142	114	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*7*	*X*	*27 - 136*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*6*	*X*	*27 - 136*

Lab Sample ID: MB 410-46264/1-A
Matrix: Solid
Analysis Batch: 47260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	ND		1.7	0.75	ug/Kg		09/21/20 23:50	09/23/20 14:09	1
2,4-D (1C)	ND		36	12	ug/Kg		09/21/20 23:50	09/23/20 14:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*52*		*27 - 136*	*09/21/20 23:50*	*09/23/20 14:09*	*1*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*56*		*27 - 136*	*09/21/20 23:50*	*09/23/20 14:09*	*1*

Lab Sample ID: LCS 410-46264/2-A
Matrix: Solid
Analysis Batch: 47260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46264

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP) (1C)			8.33	9.31		ug/Kg		112	49 - 133		
2,4-D (2C)			83.6	86.6		ug/Kg		104	57 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr) (1C)	*96*		*27 - 136*
2,4-Dichlorophenylacetic acid (Surr) (2C)	*97*		*27 - 136*

Method: 8151A - Herbicides (GC) - RE

Lab Sample ID: 410-12176-1 MS
Matrix: Solid
Analysis Batch: 47260

Client Sample ID: PAD-B-NW-0-0.5
Prep Type: Total/NA
Prep Batch: 46264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP) (1C) - RE	ND	H	9.08	11.0		ug/Kg	☼	122	70 - 130		
2,4-D (1C) - RE	ND	H	91.1	98.9		ug/Kg	☼	108	57 - 142		

Method: 8151A - Herbicides (GC) - RE (Continued)

Lab Sample ID: 410-12176-1 MS
Matrix: Solid
Analysis Batch: 47260

Client Sample ID: PAD-B-NW-0-0.5
Prep Type: Total/NA
Prep Batch: 46264

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr) (2C) - RE	87		27 - 136

Lab Sample ID: 410-12176-1 MSD
Matrix: Solid
Analysis Batch: 47260

Client Sample ID: PAD-B-NW-0-0.5
Prep Type: Total/NA
Prep Batch: 46264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP) (1C) - RE	ND	H	9.08	11.8		ug/Kg	☼	130	70 - 130	7	50
2,4-D (2C) - RE	ND	H	91.1	108		ug/Kg	☼	118	57 - 142	9	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr) (1C) - RE	109		27 - 136

Method: 531.1 - Carbamate Pesticides (HPLC)

Lab Sample ID: MB 410-40375/1-A
Matrix: Water
Analysis Batch: 40400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		2.0	1.0	ug/L		09/02/20 19:58	09/03/20 05:42	1
Carbofuran	ND		2.0	0.80	ug/L		09/02/20 19:58	09/03/20 05:42	1
Methiocarb	ND		2.0	1.0	ug/L		09/02/20 19:58	09/03/20 05:42	1
Methomyl	ND		2.0	1.0	ug/L		09/02/20 19:58	09/03/20 05:42	1
Oxamyl	ND		2.0	1.0	ug/L		09/02/20 19:58	09/03/20 05:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	99		80 - 120	09/02/20 19:58	09/03/20 05:42	1

Lab Sample ID: LCS 410-40375/2-A
Matrix: Water
Analysis Batch: 40400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	2.00	2.08		ug/L		104	80 - 120
Carbofuran	2.00	2.36		ug/L		118	80 - 120
Methiocarb	2.00	1.73	J	ug/L		87	80 - 120
Methomyl	2.00	2.32		ug/L		116	80 - 120
Oxamyl	2.00	2.26		ug/L		113	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	102		80 - 120

Method: 531.1 - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: 410-12176-18 MS
Matrix: Water
Analysis Batch: 40400

Client Sample ID: PAD-EB1-082720
Prep Type: Total/NA
Prep Batch: 40375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	ND		2.00	2.37		ug/L		118	80 - 120
Carbofuran	ND	F1 F2	2.00	1.74	J	ug/L		87	80 - 120
Methiocarb	ND	F1	2.00	1.81	J	ug/L		90	80 - 120
Methomyl	ND		2.00	2.09		ug/L		104	80 - 120
Oxamyl	ND		2.00	2.14		ug/L		107	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*102*		*80 - 120*

Lab Sample ID: 410-12176-18 MSD
Matrix: Water
Analysis Batch: 40400

Client Sample ID: PAD-EB1-082720
Prep Type: Total/NA
Prep Batch: 40375

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbaryl	ND		2.00	2.11		ug/L		105	80 - 120	12	30
Carbofuran	ND	F1 F2	2.00	2.62	F1 F2	ug/L		131	80 - 120	41	30
Methiocarb	ND	F1	2.00	1.39	J F1	ug/L		69	80 - 120	26	30
Methomyl	ND		2.00	2.23		ug/L		111	80 - 120	7	30
Oxamyl	ND		2.00	1.89	J	ug/L		94	80 - 120	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*104*		*80 - 120*

Method: 8318 - Carbamate (HPLC)

Lab Sample ID: MB 410-40911/1-A
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20
Carbofuran	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20
Methiocarb	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20
Methomyl	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20
Oxamyl	ND		250	50	ug/Kg		09/03/20 23:16	09/09/20 12:23	20

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*87*		*27 - 131*	*09/03/20 23:16*	*09/09/20 12:23*	*20*

Lab Sample ID: LCS 410-40911/2-A
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	501	422		ug/Kg		84	57 - 115
Carbofuran	500	452		ug/Kg		90	73 - 115

Method: 8318 - Carbamate (HPLC) (Continued)

Lab Sample ID: LCS 410-40911/2-A
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methiocarb	501	456		ug/Kg		91	66 - 115
Methomyl	502	463		ug/Kg		92	71 - 115
Oxamyl	501	458		ug/Kg		91	70 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*88*		*27 - 131*

Lab Sample ID: MB 410-40914/1-A
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	ND		250	50	ug/Kg		09/03/20 23:52	09/09/20 04:59	20
Carbofuran	ND		250	50	ug/Kg		09/03/20 23:52	09/09/20 04:59	20
Methiocarb	ND		250	50	ug/Kg		09/03/20 23:52	09/09/20 04:59	20
Methomyl	ND		250	50	ug/Kg		09/03/20 23:52	09/09/20 04:59	20
Oxamyl	ND		250	50	ug/Kg		09/03/20 23:52	09/09/20 04:59	20

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*39*		*27 - 131*	*09/03/20 23:52*	*09/09/20 04:59*	*20*

Lab Sample ID: LCS 410-40914/2-A
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	501	450		ug/Kg		90	57 - 115
Carbofuran	500	477		ug/Kg		95	73 - 115
Methiocarb	501	481		ug/Kg		96	66 - 115
Methomyl	502	486		ug/Kg		97	71 - 115
Oxamyl	501	477		ug/Kg		95	70 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*42*		*27 - 131*

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbaryl	ND		590	511		ug/Kg	☼	87	57 - 115
Carbofuran	ND		590	542		ug/Kg	☼	92	73 - 115
Methiocarb	ND		591	550		ug/Kg	☼	93	66 - 115
Methomyl	ND		591	548		ug/Kg	☼	93	71 - 115
Oxamyl	ND		591	535		ug/Kg	☼	91	70 - 115

Method: 8318 - Carbamate (HPLC) (Continued)

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40914

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*40*		*27 - 131*

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 42224

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 40914

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbaryl	ND		593	461		ug/Kg	☼	78	57 - 115	10	50
Carbofuran	ND		593	496		ug/Kg	☼	84	73 - 115	9	50
Methiocarb	ND		594	502		ug/Kg	☼	84	66 - 115	9	50
Methomyl	ND		594	502		ug/Kg	☼	84	71 - 115	9	50
Oxamyl	ND		594	493		ug/Kg	☼	83	70 - 115	8	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromo-3,5-Dimethylphenyl-N-methylcarbamate	*36*		*27 - 131*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-39141/1-A ^2
Matrix: Solid
Analysis Batch: 44379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.65	0.22	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Barium	ND		0.65	0.30	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Cadmium	ND		0.16	0.082	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Chromium	ND		0.65	0.25	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Lead	ND		0.33	0.082	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Calcium	ND		65	24	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Selenium	ND		0.65	0.21	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Nickel	ND		0.65	0.26	mg/Kg		08/31/20 08:21	09/15/20 17:14	2
Silver	ND		0.16	0.066	mg/Kg		08/31/20 08:21	09/15/20 17:14	2

Lab Sample ID: LCS 410-39141/2-A ^2
Matrix: Solid
Analysis Batch: 44379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.933	0.914		mg/Kg		98	80 - 120
Barium	4.68	5.03		mg/Kg		108	80 - 120
Cadmium	0.472	0.518		mg/Kg		110	80 - 120
Chromium	4.74	4.66		mg/Kg		98	80 - 120
Lead	0.464	0.471		mg/Kg		101	80 - 120
Calcium	380	387		mg/Kg		102	80 - 120
Selenium	0.943	0.977		mg/Kg		104	80 - 120
Nickel	4.74	5.05		mg/Kg		107	80 - 120
Silver	4.75	5.05		mg/Kg		106	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 46794

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.8	F1	1.88	5.97	F1	mg/Kg	☼	63	75 - 125
Barium	67		9.40	72.4	4	mg/Kg	☼	60	75 - 125
Cadmium	0.66		0.948	1.49		mg/Kg	☼	87	75 - 125
Lead	16	F2	0.933	21.3	4	mg/Kg	☼	556	75 - 125
Silver	0.49		9.54	9.32		mg/Kg	☼	93	75 - 125

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 46794

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	11000		764	6570	4	mg/Kg	☼	-635	75 - 125

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 47716

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.28	J	1.90	1.93		mg/Kg	☼	87	75 - 125

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 47716

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	52		9.52	52.2	4	mg/Kg	☼	-0.8	75 - 125
Nickel	20	F1	9.52	27.2	F1	mg/Kg	☼	73	75 - 125

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 46794

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.8	F1	1.92	5.11	F1	mg/Kg	☼	17	75 - 125	15	20
Barium	67		9.64	79.7	4	mg/Kg	☼	135	75 - 125	10	20
Cadmium	0.66		0.971	1.48		mg/Kg	☼	84	75 - 125	1	20
Lead	16	F2	0.956	13.8	4 F2	mg/Kg	☼	-242	75 - 125	43	20
Silver	0.49		9.77	10.0		mg/Kg	☼	97	75 - 125	7	20

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 46794

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	11000		783	5770	4	mg/Kg	☼	-722	75 - 125	13	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 47716

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	0.28	J	1.94	2.00		mg/Kg	☼	89	75 - 125	4	20

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 47716

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	52		9.75	57.4	4	mg/Kg	☼	53	75 - 125	10	20
Nickel	20	F1	9.75	30.2		mg/Kg	☼	102	75 - 125	11	20

Lab Sample ID: 410-12176-16 DU
Matrix: Solid
Analysis Batch: 46794

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	4.8	F1	3.91		mg/Kg	☼	20	20
Barium	67		63.7		mg/Kg	☼	5	20
Cadmium	0.66		0.624		mg/Kg	☼	6	20
Lead	16	F2	14.6		mg/Kg	☼	10	20
Silver	0.49		0.284	F3	mg/Kg	☼	53	20

Lab Sample ID: 410-12176-16 DU
Matrix: Solid
Analysis Batch: 46794

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	11000		5240	F3	mg/Kg	☼	74	20

Lab Sample ID: 410-12176-16 DU
Matrix: Solid
Analysis Batch: 47716

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Selenium	0.28	J	0.248	J	mg/Kg	☼	12	20

Lab Sample ID: 410-12176-16 DU
Matrix: Solid
Analysis Batch: 47716

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39141

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	52		54.3		mg/Kg	☼	4	20
Nickel	20	F1	21.0		mg/Kg	☼	4	20

Lab Sample ID: MB 410-39305/1-A
Matrix: Water
Analysis Batch: 40522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		08/31/20 13:39	09/02/20 18:48	1
Barium	ND		2.0	0.75	ug/L		08/31/20 13:39	09/02/20 18:48	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-39305/1-A
Matrix: Water
Analysis Batch: 40522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.50	0.15	ug/L		08/31/20 13:39	09/02/20 18:48	1
Chromium	0.338	J	2.0	0.33	ug/L		08/31/20 13:39	09/02/20 18:48	1
Lead	ND		0.50	0.071	ug/L		08/31/20 13:39	09/02/20 18:48	1
Calcium	ND		100	74	ug/L		08/31/20 13:39	09/02/20 18:48	1
Selenium	ND		1.0	0.28	ug/L		08/31/20 13:39	09/02/20 18:48	1
Silver	ND		0.50	0.17	ug/L		08/31/20 13:39	09/02/20 18:48	1

Lab Sample ID: MB 410-39305/1-A
Matrix: Water
Analysis Batch: 46385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		1.0	0.60	ug/L		08/31/20 13:39	09/21/20 16:02	1

Lab Sample ID: LCS 410-39305/2-A
Matrix: Water
Analysis Batch: 40522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	9.89	9.80		ug/L		99	85 - 120
Barium	49.6	49.1		ug/L		99	80 - 120
Cadmium	5.00	4.86		ug/L		97	86 - 113
Chromium	50.2	46.3		ug/L		92	90 - 115
Lead	4.92	4.93		ug/L		100	90 - 115
Calcium	4030	3910		ug/L		97	85 - 120
Selenium	10.0	9.54		ug/L		95	80 - 120
Silver	50.3	49.0		ug/L		97	88 - 113

Lab Sample ID: LCS 410-39305/2-A
Matrix: Water
Analysis Batch: 46385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	50.2	52.4		ug/L		104	90 - 114

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-39780/1-A
Matrix: Water
Analysis Batch: 40246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		09/01/20 14:35	09/02/20 12:29	1

Lab Sample ID: LCS 410-39780/2-A
Matrix: Water
Analysis Batch: 40246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.995		ug/L		99	80 - 118

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 410-39180/1-A
Matrix: Solid
Analysis Batch: 39832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.060	0.025	mg/Kg		08/31/20 09:31	09/01/20 14:08	1

Lab Sample ID: LCS 410-39180/2-A
Matrix: Solid
Analysis Batch: 39832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.182		mg/Kg		109	80 - 120

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 39832

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.076		0.191	0.300		mg/Kg	☼	117	80 - 120

Lab Sample ID: 410-12176-16 MSD
Matrix: Solid
Analysis Batch: 39832

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.076		0.198	0.266		mg/Kg	☼	96	80 - 120	12	20

Lab Sample ID: 410-12176-16 DU
Matrix: Solid
Analysis Batch: 39832

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 39180

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.076		0.0660	J	mg/Kg	☼	14	20

Method: 9012A - Cyanide, Amenable

Lab Sample ID: 410-12176-16 DU
Matrix: Solid
Analysis Batch: 42318

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Amenable	0.44	J	ND		mg/Kg	☼	NC	

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 410-39492/2-A
Matrix: Solid
Analysis Batch: 39737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.18	mg/Kg		09/01/20 06:05	09/01/20 11:02	1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 410-12176-9 MS
Matrix: Solid
Analysis Batch: 39737

Client Sample ID: PAD-AB-S-0-0.5
Prep Type: Total/NA
Prep Batch: 39492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		5.99	4.47		mg/Kg	☼	75	45 - 145

Lab Sample ID: 410-12176-14 MS
Matrix: Solid
Analysis Batch: 39737

Client Sample ID: PAD-G-S-SE-0-0.5
Prep Type: Total/NA
Prep Batch: 39492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.61		5.49	5.84		mg/Kg	☼	95	45 - 145

Lab Sample ID: 410-12176-9 DU
Matrix: Solid
Analysis Batch: 39737

Client Sample ID: PAD-AB-S-0-0.5
Prep Type: Total/NA
Prep Batch: 39492

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND		ND		mg/Kg	☼	NC	20

Lab Sample ID: 410-12176-14 DU
Matrix: Solid
Analysis Batch: 39737

Client Sample ID: PAD-G-S-SE-0-0.5
Prep Type: Total/NA
Prep Batch: 39492

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.61		0.509	J	mg/Kg	☼	19	20

Lab Sample ID: MB 410-41721/3-A
Matrix: Water
Analysis Batch: 41876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		09/08/20 16:05	09/08/20 21:39	1

Lab Sample ID: LCS 410-41721/1-A
Matrix: Water
Analysis Batch: 41876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.202		mg/L		101	90 - 110

Lab Sample ID: LCSD 410-41721/2-A
Matrix: Water
Analysis Batch: 41876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41721

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.200	0.202		mg/L		101	90 - 110	0	20

Lab Sample ID: MB 410-42173/2-A
Matrix: Solid
Analysis Batch: 42310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.52	0.19	mg/Kg		09/09/20 16:05	09/09/20 22:56	1

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: LCS 410-42173/1-A
Matrix: Solid
Analysis Batch: 42310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	4.81	4.86		mg/Kg		101	90 - 110

Lab Sample ID: 410-12176-16 MS
Matrix: Solid
Analysis Batch: 42310

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 42173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.44	J F1	6.20	0.425	J F1	mg/Kg	☼	-0.2	45 - 145

Lab Sample ID: 410-12176-16 DU
Matrix: Solid
Analysis Batch: 42310

Client Sample ID: PAD-G-S-SW-0-0.5
Prep Type: Total/NA
Prep Batch: 42173

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.44	J F1	0.422	J	mg/Kg	☼	4	20

QC Association Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

GC/MS VOA

Prep Batch: 38395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	5035	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	5035	

Prep Batch: 38399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	5035	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	5035	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	5035	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	5035	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	5035	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	5035	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	5035	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	5035	
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	5035	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	5035	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	5035	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	5035	
410-12176-15 - RA	PAD-G-S-CTR-0-0.5	Total/NA	Solid	5035	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	5035	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	5035	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	5035	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	5035	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	5035	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	5035	

Analysis Batch: 39953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	8260C	38395
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	8260C	38395
MB 410-39953/9	Method Blank	Total/NA	Solid	8260C	
LCS 410-39953/7	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-39953/8	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 40069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	8260C	38399
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	8260C	38399
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8260C	38399
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	8260C	38399
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	8260C	38399
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	8260C	38399
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	8260C	38399
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	8260C	38399
MB 410-40069/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-40069/5	Lab Control Sample	Total/NA	Solid	8260C	
LCS 410-40069/7	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-40069/6	Lab Control Sample Dup	Total/NA	Solid	8260C	
LCSD 410-40069/8	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS VOA

Analysis Batch: 40779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	8260C	38399
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	8260C	38399
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	8260C	38399
MB 410-40779/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-40779/5	Lab Control Sample	Total/NA	Solid	8260C	
LCS 410-40779/7	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-40779/6	Lab Control Sample Dup	Total/NA	Solid	8260C	
LCSD 410-40779/8	Lab Control Sample Dup	Total/NA	Solid	8260C	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	8260C	38399
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	8260C	38399
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	8260C	38399
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	8260C	38399

Analysis Batch: 41030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-15 - RA	PAD-G-S-CTR-0-0.5	Total/NA	Solid	8260C	38399
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	8260C	38399
MB 410-41030/31	Method Blank	Total/NA	Solid	8260C	
LCS 410-41030/5	Lab Control Sample	Total/NA	Solid	8260C	
LCS 410-41030/7	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-41030/6	Lab Control Sample Dup	Total/NA	Solid	8260C	
LCSD 410-41030/8	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 41260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	8260C	38399
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	8260C	38399
MB 410-41260/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-41260/5	Lab Control Sample	Total/NA	Solid	8260C	
LCS 410-41260/7	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-41260/6	Lab Control Sample Dup	Total/NA	Solid	8260C	
LCSD 410-41260/8	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 41591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-10	PAD-TB1-082720	Total/NA	Water	8260C	
410-12176-18	PAD-EB1-082720	Total/NA	Water	8260C	
MB 410-41591/10	Method Blank	Total/NA	Water	8260C	
LCS 410-41591/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 410-41591/7	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-41591/6	Lab Control Sample Dup	Total/NA	Water	8260C	
LCSD 410-41591/8	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 40483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	3546	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-3 - DL	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	3546	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 40483 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	3546	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	3546	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	3546	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	3546	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	3546	
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	3546	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	3546	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	3546	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	3546	
MB 410-40483/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-40483/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 410-40483/3-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 410-40483/4-A	Lab Control Sample Dup	Total/NA	Solid	3546	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	3546	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	3546	

Prep Batch: 40543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	3510C	
MB 410-40543/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-40543/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 410-40543/3-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-40543/4-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 41328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	8270D	40483
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	8270D	40483
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8270D	40483
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	8270D	40483
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	8270D	40483
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	8270D	40483
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	8270D	40483
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	8270D	40483
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	8270D	40483
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	8270D	40483
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	8270D	40483
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	8270D	40483
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	8270D	40483
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	8270D	40483
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	8270D	40483
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	8270D	40483
MB 410-40483/1-A	Method Blank	Total/NA	Solid	8270D	40483
LCS 410-40483/2-A	Lab Control Sample	Total/NA	Solid	8270D	40483
LCS 410-40483/3-A	Lab Control Sample	Total/NA	Solid	8270D	40483
LCSD 410-40483/4-A	Lab Control Sample Dup	Total/NA	Solid	8270D	40483
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	8270D	40483

GC/MS Semi VOA (Continued)

Analysis Batch: 41328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	8270D	40483

Analysis Batch: 41407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-3 - DL	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8270D	40483

Analysis Batch: 43244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	8270D	40543
MB 410-40543/1-A	Method Blank	Total/NA	Water	8270D	40543
LCS 410-40543/2-A	Lab Control Sample	Total/NA	Water	8270D	40543
LCS 410-40543/3-A	Lab Control Sample	Total/NA	Water	8270D	40543
LCSD 410-40543/4-A	Lab Control Sample Dup	Total/NA	Water	8270D	40543

GC VOA

Leach Batch: 40088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Soluble	Solid	DI Leach	
410-12176-2	PAD-B-W-CTR-0-0.5	Soluble	Solid	DI Leach	
410-12176-3	PAD-B-SUMP-1.5-2.0	Soluble	Solid	DI Leach	
410-12176-4	PAD-B-SW-0-0.5	Soluble	Solid	DI Leach	
410-12176-5	PAD-B-S-CTR-0-0.5	Soluble	Solid	DI Leach	
410-12176-6	PAD-A-SE-0-0.5	Soluble	Solid	DI Leach	
410-12176-7	PAD-A-SUMP-2-3	Soluble	Solid	DI Leach	
410-12176-8	PAD-A-S-CTR-0-0.5	Soluble	Solid	DI Leach	
410-12176-9	PAD-AB-S-0-0.5	Soluble	Solid	DI Leach	
410-12176-11	PAD-G-E-NE-0-0.5	Soluble	Solid	DI Leach	
410-12176-12	PAD-G-E-CTR-0-0.5	Soluble	Solid	DI Leach	
410-12176-13	PAD-G-E-SE-0-0.5	Soluble	Solid	DI Leach	
410-12176-14	PAD-G-S-SE-0-0.5	Soluble	Solid	DI Leach	
410-12176-15	PAD-G-S-CTR-0-0.5	Soluble	Solid	DI Leach	
410-12176-16	PAD-G-S-SW-0-0.5	Soluble	Solid	DI Leach	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Soluble	Solid	DI Leach	
MB 410-40088/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 410-40088/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Soluble	Solid	DI Leach	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Soluble	Solid	DI Leach	

Prep Batch: 41594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	8015 DAI	
MB 410-41594/1-A	Method Blank	Total/NA	Water	8015 DAI	
LCS 410-41594/2-A	Lab Control Sample	Total/NA	Water	8015 DAI	

Analysis Batch: 41600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Soluble	Solid	8015B	40088
410-12176-2	PAD-B-W-CTR-0-0.5	Soluble	Solid	8015B	40088
410-12176-3	PAD-B-SUMP-1.5-2.0	Soluble	Solid	8015B	40088
410-12176-4	PAD-B-SW-0-0.5	Soluble	Solid	8015B	40088

GC VOA (Continued)

Analysis Batch: 41600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-5	PAD-B-S-CTR-0-0.5	Soluble	Solid	8015B	40088
410-12176-6	PAD-A-SE-0-0.5	Soluble	Solid	8015B	40088
410-12176-7	PAD-A-SUMP-2-3	Soluble	Solid	8015B	40088
410-12176-8	PAD-A-S-CTR-0-0.5	Soluble	Solid	8015B	40088
410-12176-9	PAD-AB-S-0-0.5	Soluble	Solid	8015B	40088
410-12176-11	PAD-G-E-NE-0-0.5	Soluble	Solid	8015B	40088
410-12176-12	PAD-G-E-CTR-0-0.5	Soluble	Solid	8015B	40088
410-12176-13	PAD-G-E-SE-0-0.5	Soluble	Solid	8015B	40088
410-12176-14	PAD-G-S-SE-0-0.5	Soluble	Solid	8015B	40088
410-12176-15	PAD-G-S-CTR-0-0.5	Soluble	Solid	8015B	40088
410-12176-16	PAD-G-S-SW-0-0.5	Soluble	Solid	8015B	40088
410-12176-17	PAD-G-S-SW-0-0.5DUP	Soluble	Solid	8015B	40088
410-12176-18	PAD-EB1-082720	Total/NA	Water	8015B	41594
MB 410-40088/1-A	Method Blank	Soluble	Solid	8015B	40088
MB 410-41594/1-A	Method Blank	Total/NA	Water	8015B	41594
LCS 410-40088/2-A	Lab Control Sample	Soluble	Solid	8015B	40088
LCS 410-41594/2-A	Lab Control Sample	Total/NA	Water	8015B	41594
410-12176-16 MS	PAD-G-S-SW-0-0.5	Soluble	Solid	8015B	40088
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Soluble	Solid	8015B	40088

GC Semi VOA

Prep Batch: 39435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	8151A	
MB 410-39435/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-39435/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-39435/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 39571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-39435/1-A	Method Blank	Total/NA	Water	8151A	39435
LCS 410-39435/2-A	Lab Control Sample	Total/NA	Water	8151A	39435
LCSD 410-39435/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	39435

Prep Batch: 40303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	3546	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	3546	
410-12176-3 - DL	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	3546	
410-12176-4 - DL	PAD-B-SW-0-0.5	Total/NA	Solid	3546	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	3546	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	3546	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	3546	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-8 - DL	PAD-A-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-9 - DL	PAD-AB-S-0-0.5	Total/NA	Solid	3546	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	3546	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 40303 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	3546	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	3546	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	3546	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	3546	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	3546	
410-12176-17 - DL	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	3546	
MB 410-40303/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-40303/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	3546	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	3546	

Prep Batch: 40820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	3510C	
MB 410-40820/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-40820/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-40820/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 40932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	8081B	40820
MB 410-40820/1-A	Method Blank	Total/NA	Water	8081B	40820
LCS 410-40820/2-A	Lab Control Sample	Total/NA	Water	8081B	40820
LCSD 410-40820/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	40820

Analysis Batch: 40934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	8081B	40303
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	8081B	40303
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8081B	40303
410-12176-3 - DL	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8081B	40303
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	8081B	40303
410-12176-4 - DL	PAD-B-SW-0-0.5	Total/NA	Solid	8081B	40303
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	8081B	40303
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	8081B	40303
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	8081B	40303
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	8081B	40303
410-12176-8 - DL	PAD-A-S-CTR-0-0.5	Total/NA	Solid	8081B	40303
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	8081B	40303
410-12176-9 - DL	PAD-AB-S-0-0.5	Total/NA	Solid	8081B	40303
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	8081B	40303
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	8081B	40303
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	8081B	40303
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	8081B	40303
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	8081B	40303
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	8081B	40303
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	8081B	40303
410-12176-17 - DL	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	8081B	40303
MB 410-40303/1-A	Method Blank	Total/NA	Solid	8081B	40303
LCS 410-40303/2-A	Lab Control Sample	Total/NA	Solid	8081B	40303

GC Semi VOA (Continued)

Analysis Batch: 40934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	8081B	40303
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	8081B	40303

Analysis Batch: 41200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	8151A	39435

Prep Batch: 42789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	8151A	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	8151A	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8151A	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	8151A	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	8151A	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	8151A	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	8151A	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	8151A	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	8151A	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	8151A	
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	8151A	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	8151A	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	8151A	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	8151A	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	8151A	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	8151A	
MB 410-42789/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 410-42789/2-A	Lab Control Sample	Total/NA	Solid	8151A	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	8151A	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	8151A	

Analysis Batch: 43820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	8151A	42789
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	8151A	42789
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8151A	42789
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	8151A	42789
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	8151A	42789
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	8151A	42789
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	8151A	42789
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	8151A	42789
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	8151A	42789
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	8151A	42789
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	8151A	42789
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	8151A	42789
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	8151A	42789
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	8151A	42789
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	8151A	42789
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	8151A	42789
MB 410-42789/1-A	Method Blank	Total/NA	Solid	8151A	42789
LCS 410-42789/2-A	Lab Control Sample	Total/NA	Solid	8151A	42789
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	8151A	42789

GC Semi VOA (Continued)

Analysis Batch: 43820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	8151A	42789

Prep Batch: 46264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-46264/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 410-46264/2-A	Lab Control Sample	Total/NA	Solid	8151A	
410-12176-1 MS - RE	PAD-B-NW-0-0.5	Total/NA	Solid	8151A	
410-12176-1 MSD - RE	PAD-B-NW-0-0.5	Total/NA	Solid	8151A	

Analysis Batch: 47260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-46264/1-A	Method Blank	Total/NA	Solid	8151A	46264
LCS 410-46264/2-A	Lab Control Sample	Total/NA	Solid	8151A	46264
410-12176-1 MS - RE	PAD-B-NW-0-0.5	Total/NA	Solid	8151A	46264
410-12176-1 MSD - RE	PAD-B-NW-0-0.5	Total/NA	Solid	8151A	46264

HPLC/IC

Prep Batch: 40375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	531	
MB 410-40375/1-A	Method Blank	Total/NA	Water	531	
LCS 410-40375/2-A	Lab Control Sample	Total/NA	Water	531	
410-12176-18 MS	PAD-EB1-082720	Total/NA	Water	531	
410-12176-18 MSD	PAD-EB1-082720	Total/NA	Water	531	

Analysis Batch: 40400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	531.1	40375
MB 410-40375/1-A	Method Blank	Total/NA	Water	531.1	40375
LCS 410-40375/2-A	Lab Control Sample	Total/NA	Water	531.1	40375
410-12176-18 MS	PAD-EB1-082720	Total/NA	Water	531.1	40375
410-12176-18 MSD	PAD-EB1-082720	Total/NA	Water	531.1	40375

Prep Batch: 40911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8318_S_Prep	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	8318_S_Prep	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	8318_S_Prep	
MB 410-40911/1-A	Method Blank	Total/NA	Solid	8318_S_Prep	
LCS 410-40911/2-A	Lab Control Sample	Total/NA	Solid	8318_S_Prep	

HPLC/IC

Prep Batch: 40914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	8318_S_Prep	
MB 410-40914/1-A	Method Blank	Total/NA	Solid	8318_S_Prep	
LCS 410-40914/2-A	Lab Control Sample	Total/NA	Solid	8318_S_Prep	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	8318_S_Prep	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	8318_S_Prep	

Analysis Batch: 42224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	8318	40911
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	8318	40911
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8318	40911
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	8318	40911
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	8318	40911
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	8318	40911
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	8318	40911
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	8318	40911
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	8318	40911
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	8318	40911
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	8318	40911
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	8318	40914
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	8318	40914
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	8318	40914
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	8318	40914
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	8318	40914
MB 410-40911/1-A	Method Blank	Total/NA	Solid	8318	40911
MB 410-40914/1-A	Method Blank	Total/NA	Solid	8318	40914
LCS 410-40911/2-A	Lab Control Sample	Total/NA	Solid	8318	40911
LCS 410-40914/2-A	Lab Control Sample	Total/NA	Solid	8318	40914
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	8318	40914
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	8318	40914

Analysis Batch: 42792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	8318	40911

Metals

Prep Batch: 39141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	3050B	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	3050B	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	3050B	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	3050B	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	3050B	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	3050B	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	3050B	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 39141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	3050B	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	3050B	
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	3050B	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	3050B	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	3050B	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	3050B	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	3050B	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	3050B	
MB 410-39141/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-39141/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	3050B	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	3050B	
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	3050B	

Prep Batch: 39180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	7471A	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	7471A	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	7471A	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	7471A	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	7471A	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	7471A	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	7471A	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	7471A	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	7471A	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	7471A	
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	7471A	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	7471A	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	7471A	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	7471A	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	7471A	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	7471A	
MB 410-39180/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-39180/2-A	Lab Control Sample	Total/NA	Solid	7471A	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	7471A	
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	7471A	
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	7471A	

Prep Batch: 39305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	3020A	
MB 410-39305/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-39305/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 39780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	7470A	
MB 410-39780/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-39780/2-A	Lab Control Sample	Total/NA	Water	7470A	

Metals

Analysis Batch: 39832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	7471A	39180
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	7471A	39180
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	7471A	39180
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	7471A	39180
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	7471A	39180
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	7471A	39180
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	7471A	39180
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	7471A	39180
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	7471A	39180
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	7471A	39180
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	7471A	39180
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	7471A	39180
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	7471A	39180
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	7471A	39180
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	7471A	39180
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	7471A	39180
MB 410-39180/1-A	Method Blank	Total/NA	Solid	7471A	39180
LCS 410-39180/2-A	Lab Control Sample	Total/NA	Solid	7471A	39180
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	7471A	39180
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	7471A	39180
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	7471A	39180

Analysis Batch: 40246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	7470A	39780
MB 410-39780/1-A	Method Blank	Total/NA	Water	7470A	39780
LCS 410-39780/2-A	Lab Control Sample	Total/NA	Water	7470A	39780

Analysis Batch: 40522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	6020A	39305
MB 410-39305/1-A	Method Blank	Total/NA	Water	6020A	39305
LCS 410-39305/2-A	Lab Control Sample	Total/NA	Water	6020A	39305

Analysis Batch: 44379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	6020A	39141
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	6020A	39141
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	6020A	39141
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	6020A	39141
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	6020A	39141
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	6020A	39141
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	6020A	39141
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	6020A	39141
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	6020A	39141
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	6020A	39141
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	6020A	39141
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	6020A	39141
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	6020A	39141

Metals (Continued)

Analysis Batch: 44379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-39141/1-A ^2	Method Blank	Total/NA	Solid	6020A	39141
LCS 410-39141/2-A ^2	Lab Control Sample	Total/NA	Solid	6020A	39141

Analysis Batch: 46385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	6020A	39305
MB 410-39305/1-A	Method Blank	Total/NA	Water	6020A	39305
LCS 410-39305/2-A	Lab Control Sample	Total/NA	Water	6020A	39305

Analysis Batch: 46794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	6020A	39141
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	6020A	39141
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	6020A	39141
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141

Analysis Batch: 47716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 MSD	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	6020A	39141

Analysis Batch: 48112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	6020A	39141
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	6020A	39141
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	6020A	39141
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	6020A	39141

General Chemistry

Analysis Batch: 38805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	Moisture	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	Moisture	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	Moisture	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	Moisture	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 38805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	Moisture	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	Moisture	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	Moisture	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	Moisture	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	Moisture	
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	Moisture	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	Moisture	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	Moisture	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	Moisture	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	Moisture	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	Moisture	

Prep Batch: 39492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	9012A	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	9012A	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	9012A	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	9012A	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	9012A	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	9012A	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	9012A	
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	9012A	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	9012A	
MB 410-39492/2-A	Method Blank	Total/NA	Solid	9012A	
LCS 410-39492/1-A	Lab Control Sample	Total/NA	Solid	9012A	
410-12176-9 MS	PAD-AB-S-0-0.5	Total/NA	Solid	9012A	
410-12176-14 MS	PAD-G-S-SE-0-0.5	Total/NA	Solid	9012A	
410-12176-9 DU	PAD-AB-S-0-0.5	Total/NA	Solid	9012A	
410-12176-14 DU	PAD-G-S-SE-0-0.5	Total/NA	Solid	9012A	

Analysis Batch: 39737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	9012A	39492
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	9012A	39492
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	9012A	39492
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	9012A	39492
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	9012A	39492
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	9012A	39492
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	9012A	39492
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	9012A	39492
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	9012A	39492
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	9012A	39492
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	9012A	39492
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	9012A	39492
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	9012A	39492
MB 410-39492/2-A	Method Blank	Total/NA	Solid	9012A	39492
LCS 410-39492/1-A	Lab Control Sample	Total/NA	Solid	9012A	39492

General Chemistry (Continued)

Analysis Batch: 39737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-9 MS	PAD-AB-S-0-0.5	Total/NA	Solid	9012A	39492
410-12176-14 MS	PAD-G-S-SE-0-0.5	Total/NA	Solid	9012A	39492
410-12176-9 DU	PAD-AB-S-0-0.5	Total/NA	Solid	9012A	39492
410-12176-14 DU	PAD-G-S-SE-0-0.5	Total/NA	Solid	9012A	39492

Prep Batch: 41721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	9012A	
MB 410-41721/3-A	Method Blank	Total/NA	Water	9012A	
LCS 410-41721/1-A	Lab Control Sample	Total/NA	Water	9012A	
LCSD 410-41721/2-A	Lab Control Sample Dup	Total/NA	Water	9012A	

Analysis Batch: 41876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-18	PAD-EB1-082720	Total/NA	Water	9012A	41721
MB 410-41721/3-A	Method Blank	Total/NA	Water	9012A	41721
LCS 410-41721/1-A	Lab Control Sample	Total/NA	Water	9012A	41721
LCSD 410-41721/2-A	Lab Control Sample Dup	Total/NA	Water	9012A	41721

Prep Batch: 42173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	9012A	
MB 410-42173/2-A	Method Blank	Total/NA	Solid	9012A	
LCS 410-42173/1-A	Lab Control Sample	Total/NA	Solid	9012A	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	

Analysis Batch: 42310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	9012A	42173
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	42173
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	9012A	42173
MB 410-42173/2-A	Method Blank	Total/NA	Solid	9012A	42173
LCS 410-42173/1-A	Lab Control Sample	Total/NA	Solid	9012A	42173
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	42173
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	42173

Analysis Batch: 42318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-1	PAD-B-NW-0-0.5	Total/NA	Solid	9012A	
410-12176-2	PAD-B-W-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-3	PAD-B-SUMP-1.5-2.0	Total/NA	Solid	9012A	
410-12176-4	PAD-B-SW-0-0.5	Total/NA	Solid	9012A	
410-12176-5	PAD-B-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-6	PAD-A-SE-0-0.5	Total/NA	Solid	9012A	
410-12176-7	PAD-A-SUMP-2-3	Total/NA	Solid	9012A	
410-12176-8	PAD-A-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-9	PAD-AB-S-0-0.5	Total/NA	Solid	9012A	
410-12176-11	PAD-G-E-NE-0-0.5	Total/NA	Solid	9012A	

General Chemistry (Continued)

Analysis Batch: 42318 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12176-12	PAD-G-E-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-13	PAD-G-E-SE-0-0.5	Total/NA	Solid	9012A	
410-12176-14	PAD-G-S-SE-0-0.5	Total/NA	Solid	9012A	
410-12176-15	PAD-G-S-CTR-0-0.5	Total/NA	Solid	9012A	
410-12176-16	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Total/NA	Solid	9012A	
410-12176-18	PAD-EB1-082720	Total/NA	Water	9012A	
410-12176-16 MS	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	
410-12176-16 DU	PAD-G-S-SW-0-0.5	Total/NA	Solid	9012A	

Client Sample ID: PAD-B-NW-0-0.5

Lab Sample ID: 410-12176-1

Date Collected: 08/27/20 11:10

Matrix: Solid

Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-B-NW-0-0.5

Lab Sample ID: 410-12176-1

Date Collected: 08/27/20 11:10

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40069	09/02/20 16:33	USEJ	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 11:31	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 17:46	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 06:38	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/14/20 21:04	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 16:29	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 18:01	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:27	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:05	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-B-W-CTR-0-0.5

Lab Sample ID: 410-12176-2

Date Collected: 08/27/20 11:25

Matrix: Solid

Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-B-W-CTR-0-0.5

Lab Sample ID: 410-12176-2

Date Collected: 08/27/20 11:25

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40069	09/02/20 16:56	USEJ	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 12:06	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 18:03	LXF2	ELLE

Client Sample ID: PAD-B-W-CTR-0-0.5

Lab Sample ID: 410-12176-2

Date Collected: 08/27/20 11:25
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 06:49	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/14/20 21:37	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 17:19	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 18:03	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:46	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:09	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-B-SUMP-1.5-2.0

Lab Sample ID: 410-12176-3

Date Collected: 08/27/20 11:30
Matrix: Solid
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-B-SUMP-1.5-2.0

Lab Sample ID: 410-12176-3

Date Collected: 08/27/20 11:30
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40069	09/02/20 17:18	USEJ	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 12:29	W6XI	ELLE
Total/NA	Prep	3546	DL		40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D	DL	5	41407	09/06/20 15:28	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 18:19	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 06:59	ZO3C	ELLE
Total/NA	Prep	3546	DL		40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B	DL	5	40934	09/04/20 07:10	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/14/20 22:10	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 18:08	GM5C	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42792	09/11/20 05:20	GM5C	ELLE

Client Sample ID: PAD-B-SUMP-1.5-2.0

Lab Sample ID: 410-12176-3
Date Collected: 08/27/20 11:30
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:59	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		10	39832	09/01/20 15:13	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:10	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-B-SW-0-0.5

Lab Sample ID: 410-12176-4
Date Collected: 08/27/20 11:45
Matrix: Solid
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-B-SW-0-0.5

Lab Sample ID: 410-12176-4
Date Collected: 08/27/20 11:45
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40069	09/02/20 18:47	USEJ	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 13:16	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 18:35	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 07:21	ZO3C	ELLE
Total/NA	Prep	3546	DL		40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B	DL	5	40934	09/04/20 07:31	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/14/20 22:43	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 18:57	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:44	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:48	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:12	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-B-S-CTR-0-0.5

Lab Sample ID: 410-12176-5
Date Collected: 08/27/20 13:15
Matrix: Solid
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-B-S-CTR-0-0.5

Lab Sample ID: 410-12176-5
Date Collected: 08/27/20 13:15
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	41260	09/05/20 07:53	R64Z	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 13:39	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 18:52	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 07:42	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/14/20 23:17	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 19:46	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:29	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		2.5	39832	09/01/20 15:27	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:13	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-A-SE-0-0.5

Lab Sample ID: 410-12176-6
Date Collected: 08/27/20 12:15
Matrix: Solid
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-A-SE-0-0.5

Lab Sample ID: 410-12176-6
Date Collected: 08/27/20 12:15
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	41260	09/05/20 08:16	R64Z	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 14:02	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 19:08	LXF2	ELLE

Client Sample ID: PAD-A-SE-0-0.5

Lab Sample ID: 410-12176-6

Date Collected: 08/27/20 12:15

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		20	40934	09/04/20 08:04	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/14/20 23:50	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 20:36	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:36	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 15:03	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:14	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-A-SUMP-2-3

Lab Sample ID: 410-12176-7

Date Collected: 08/27/20 12:30

Matrix: Solid

Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-A-SUMP-2-3

Lab Sample ID: 410-12176-7

Date Collected: 08/27/20 12:30

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40069	09/02/20 19:10	USEJ	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 14:26	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 19:25	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 08:14	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 01:30	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 21:25	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:38	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:50	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:16	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-A-S-CTR-0-0.5

Lab Sample ID: 410-12176-8

Date Collected: 08/27/20 12:45

Matrix: Solid

Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-A-S-CTR-0-0.5

Lab Sample ID: 410-12176-8

Date Collected: 08/27/20 12:45

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38395	08/28/20 08:12	Z8FW	ELLE
Total/NA	Analysis	8260C		50	39953	09/02/20 04:27	R64Z	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 14:49	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 20:14	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 08:25	ZO3C	ELLE
Total/NA	Prep	3546	DL		40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B	DL	5	40934	09/04/20 08:36	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 02:03	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 23:04	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:48	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		5	39832	09/01/20 15:11	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:17	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-AB-S-0-0.5

Lab Sample ID: 410-12176-9

Date Collected: 08/27/20 12:55

Matrix: Solid

Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-AB-S-0-0.5

Lab Sample ID: 410-12176-9

Date Collected: 08/27/20 12:55

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38395	08/28/20 08:12	Z8FW	ELLE
Total/NA	Analysis	8260C		50	39953	09/02/20 04:48	R64Z	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 15:13	W6XI	ELLE

Client Sample ID: PAD-AB-S-0-0.5

Lab Sample ID: 410-12176-9
Date Collected: 08/27/20 12:55
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 20:31	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 08:46	ZO3C	ELLE
Total/NA	Prep	3546	DL		40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B	DL	5	40934	09/04/20 08:57	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 02:37	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 23:53	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:31	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:40	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:18	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-TB1-082720

Lab Sample ID: 410-12176-10
Date Collected: 08/27/20 13:45
Matrix: Water
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	41591	09/08/20 13:41	NSK7	ELLE

Client Sample ID: PAD-G-E-NE-0-0.5

Lab Sample ID: 410-12176-11
Date Collected: 08/27/20 08:40
Matrix: Solid
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-G-E-NE-0-0.5

Lab Sample ID: 410-12176-11
Date Collected: 08/27/20 08:40
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40069	09/02/20 17:40	USEJ	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		5	41328	09/05/20 15:36	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 20:47	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 09:08	ZO3C	ELLE

Client Sample ID: PAD-G-E-NE-0-0.5

Lab Sample ID: 410-12176-11

Date Collected: 08/27/20 08:40

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 03:10	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 00:43	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:46	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:33	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:25	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-G-E-CTR-0-0.5

Lab Sample ID: 410-12176-12

Date Collected: 08/27/20 08:45

Matrix: Solid

Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-G-E-CTR-0-0.5

Lab Sample ID: 410-12176-12

Date Collected: 08/27/20 08:45

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40069	09/02/20 18:02	USEJ	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		10	41328	09/05/20 15:59	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 21:04	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		5	40934	09/04/20 09:18	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 03:43	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40911	09/03/20 23:16	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/10/20 01:32	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:50	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	48112	09/26/20 12:49	UPJE	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 15:01	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:26	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-G-E-SE-0-0.5

Lab Sample ID: 410-12176-13
Date Collected: 08/27/20 08:50
Matrix: Solid
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-G-E-SE-0-0.5

Lab Sample ID: 410-12176-13
Date Collected: 08/27/20 08:50
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40069	09/02/20 18:25	USEJ	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		10	41328	09/05/20 16:23	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 21:20	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 09:29	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 04:17	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40914	09/03/20 23:52	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 08:16	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:42	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		5	46794	09/22/20 18:16	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	48112	09/26/20 12:47	UPJE	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:38	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:28	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-G-S-SE-0-0.5

Lab Sample ID: 410-12176-14
Date Collected: 08/27/20 08:47
Matrix: Solid
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-G-S-SE-0-0.5

Lab Sample ID: 410-12176-14
Date Collected: 08/27/20 08:47
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40779	09/04/20 00:32	R64Z	ELLE

Client Sample ID: PAD-G-S-SE-0-0.5

Lab Sample ID: 410-12176-14

Date Collected: 08/27/20 08:47
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		10	41328	09/05/20 16:46	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 21:37	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		5	40934	09/04/20 10:44	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 04:50	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40914	09/03/20 23:52	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 09:05	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:53	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		10	46794	09/22/20 18:26	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	48112	09/26/20 12:51	UPJE	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:52	UEFS	ELLE
Total/NA	Prep	9012A			39492	09/01/20 06:05	UNJS	ELLE
Total/NA	Analysis	9012A		1	39737	09/01/20 11:29	P684	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-G-S-CTR-0-0.5

Lab Sample ID: 410-12176-15

Date Collected: 08/27/20 09:10
Matrix: Solid
Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-G-S-CTR-0-0.5

Lab Sample ID: 410-12176-15

Date Collected: 08/27/20 09:10
Matrix: Solid
Date Received: 08/27/20 18:22
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40779	09/04/20 00:54	R64Z	ELLE
Total/NA	Prep	5035	RA		38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C	RA	1	41030	09/04/20 15:03	Z6JB	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		10	41328	09/05/20 17:09	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 21:54	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		5	40934	09/04/20 10:55	ZO3C	ELLE

Client Sample ID: PAD-G-S-CTR-0-0.5

Lab Sample ID: 410-12176-15

Date Collected: 08/27/20 09:10

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 05:23	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40914	09/03/20 23:52	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 09:55	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:40	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		5	46794	09/22/20 18:13	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	48112	09/26/20 12:45	UPJE	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:42	UEFS	ELLE
Total/NA	Prep	9012A			42173	09/09/20 16:05	F8AU	ELLE
Total/NA	Analysis	9012A		1	42310	09/09/20 23:01	QU5I	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-G-S-SW-0-0.5

Lab Sample ID: 410-12176-16

Date Collected: 08/27/20 09:30

Matrix: Solid

Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-G-S-SW-0-0.5

Lab Sample ID: 410-12176-16

Date Collected: 08/27/20 09:30

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	40779	09/04/20 01:17	R64Z	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		1	41328	09/05/20 17:33	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 22:43	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 11:05	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 07:03	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40914	09/03/20 23:52	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 10:44	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	46794	09/22/20 17:44	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		5	46794	09/22/20 17:46	BMB	ELLE

Client Sample ID: PAD-G-S-SW-0-0.5

Lab Sample ID: 410-12176-16

Date Collected: 08/27/20 09:30

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	47716	09/24/20 16:27	V5SW	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		5	47716	09/24/20 16:29	V5SW	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:12	UEFS	ELLE
Total/NA	Prep	9012A			42173	09/09/20 16:05	F8AU	ELLE
Total/NA	Analysis	9012A		1	42310	09/09/20 22:57	QU5I	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Client Sample ID: PAD-G-S-SW-0-0.5DUP

Lab Sample ID: 410-12176-17

Date Collected: 08/27/20 09:30

Matrix: Solid

Date Received: 08/27/20 18:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	38805	08/29/20 13:00	OEL4	ELLE

Client Sample ID: PAD-G-S-SW-0-0.5DUP

Lab Sample ID: 410-12176-17

Date Collected: 08/27/20 09:30

Matrix: Solid

Date Received: 08/27/20 18:22

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			38399	08/28/20 08:18	Z8FW	ELLE
Total/NA	Analysis	8260C		1	41030	09/04/20 15:25	Z6JB	ELLE
Total/NA	Prep	3546			40483	09/03/20 09:00	A2VL	ELLE
Total/NA	Analysis	8270D		5	41328	09/05/20 18:42	W6XI	ELLE
Soluble	Leach	DI Leach			40088	09/08/20 08:14	LXF2	ELLE
Soluble	Analysis	8015B		1	41600	09/08/20 23:33	LXF2	ELLE
Total/NA	Prep	3546			40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B		1	40934	09/04/20 11:37	ZO3C	ELLE
Total/NA	Prep	3546	DL		40303	09/02/20 16:39	DN9W	ELLE
Total/NA	Analysis	8081B	DL	5	40934	09/04/20 11:48	ZO3C	ELLE
Total/NA	Prep	8151A			42789	09/10/20 19:40	K2IL	ELLE
Total/NA	Analysis	8151A		1	43820	09/15/20 08:45	JH5B	ELLE
Total/NA	Prep	8318_S_Prep			40914	09/03/20 23:52	K2IL	ELLE
Total/NA	Analysis	8318		20	42224	09/09/20 11:33	GM5C	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		2	44379	09/15/20 17:51	BMB	ELLE
Total/NA	Prep	3050B			39141	08/31/20 08:21	UAMX	ELLE
Total/NA	Analysis	6020A		5	46794	09/22/20 18:20	BMB	ELLE
Total/NA	Prep	7471A			39180	08/31/20 09:31	UAMX	ELLE
Total/NA	Analysis	7471A		1	39832	09/01/20 14:59	UEFS	ELLE
Total/NA	Prep	9012A			42173	09/09/20 16:05	F8AU	ELLE
Total/NA	Analysis	9012A		1	42310	09/09/20 23:02	QU5I	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 00:47	QU5I	ELLE

Lab Chronicle

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Client Sample ID: PAD-EB1-082720

Date Collected: 08/27/20 13:50
Date Received: 08/27/20 18:22

Lab Sample ID: 410-12176-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	41591	09/08/20 14:03	NSK7	ELLE
Total/NA	Prep	3510C			40543	09/03/20 09:30	U2SJ	ELLE
Total/NA	Analysis	8270D		1	43244	09/12/20 21:19	SJ89	ELLE
Total/NA	Prep	8015 DAI			41594	09/08/20 09:15	LXF2	ELLE
Total/NA	Analysis	8015B		1	41600	09/08/20 12:37	LXF2	ELLE
Total/NA	Prep	3510C			40820	09/03/20 20:15	QQ3P	ELLE
Total/NA	Analysis	8081B		1	40932	09/04/20 09:32	ZO3C	ELLE
Total/NA	Prep	8151A			39435	08/31/20 20:09	UKL2	ELLE
Total/NA	Analysis	8151A		1	41200	09/06/20 06:30	AC3T	ELLE
Total/NA	Prep	531			40375	09/02/20 19:58	GM5C	ELLE
Total/NA	Analysis	531.1		1	40400	09/03/20 09:03	GM5C	ELLE
Total/NA	Prep	3020A			39305	08/31/20 13:39	UJLA	ELLE
Total/NA	Analysis	6020A		1	40522	09/02/20 19:27	BMB	ELLE
Total/NA	Prep	3020A			39305	08/31/20 13:39	UJLA	ELLE
Total/NA	Analysis	6020A		1	46385	09/21/20 16:20	V5SW	ELLE
Total/NA	Prep	7470A			39780	09/01/20 14:35	UJLA	ELLE
Total/NA	Analysis	7470A		1	40246	09/02/20 13:12	MG7H	ELLE
Total/NA	Prep	9012A			41721	09/08/20 16:05	NKL9	ELLE
Total/NA	Analysis	9012A		1	41876	09/08/20 21:55	QU5I	ELLE
Total/NA	Analysis	9012A		1	42318	09/10/20 01:03	QU5I	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: DuPont Specialty Products USA LLC
Job ID: 410-12176-1
Project/Site: Experimental Station

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
531.1	531	Water	Methiocarb
6020A	3020A	Water	Arsenic
6020A	3020A	Water	Barium
6020A	3020A	Water	Cadmium
6020A	3020A	Water	Calcium
6020A	3020A	Water	Chromium
6020A	3020A	Water	Lead
6020A	3020A	Water	Nickel
6020A	3020A	Water	Selenium
6020A	3020A	Water	Silver
6020A	3050B	Solid	Arsenic
6020A	3050B	Solid	Barium
6020A	3050B	Solid	Cadmium
6020A	3050B	Solid	Calcium
6020A	3050B	Solid	Chromium
6020A	3050B	Solid	Lead
6020A	3050B	Solid	Nickel
6020A	3050B	Solid	Selenium
6020A	3050B	Solid	Silver
7470A	7470A	Water	Mercury
7471A	7471A	Solid	Mercury
8015B		Solid	1-Butanol (1C)
8015B		Solid	Isobutanol (1C)
8015B		Solid	Methanol (2C)
8015B	8015 DAI	Water	1-Butanol (1C)
8015B	8015 DAI	Water	Isobutanol (1C)
8015B	8015 DAI	Water	Methanol (2C)
8081B	3510C	Water	alpha-BHC (1C)
8081B	3510C	Water	alpha-Chlordane (1C)
8081B	3510C	Water	beta-BHC (1C)
8081B	3510C	Water	Chlordane (n.o.s.) (1C)
8081B	3510C	Water	delta-BHC (1C)
8081B	3510C	Water	Endosulfan I (1C)
8081B	3510C	Water	Endosulfan II (1C)
8081B	3510C	Water	Endosulfan sulfate (1C)
8081B	3510C	Water	Endrin (1C)
8081B	3510C	Water	gamma-BHC (Lindane) (1C)
8081B	3510C	Water	gamma-Chlordane (1C)
8081B	3510C	Water	Heptachlor (1C)
8081B	3510C	Water	Heptachlor epoxide (1C)
8081B	3510C	Water	Methoxychlor (1C)
8081B	3510C	Water	p,p'-DDD (1C)
8081B	3510C	Water	p,p'-DDE (1C)
8081B	3510C	Water	p,p'-DDT (1C)
8081B	3510C	Water	Toxaphene (1C)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8081B	3546	Solid	alpha-BHC (1C)
8081B	3546	Solid	alpha-BHC (2C)
8081B	3546	Solid	alpha-Chlordane (1C)
8081B	3546	Solid	alpha-Chlordane (2C)
8081B	3546	Solid	beta-BHC (1C)
8081B	3546	Solid	beta-BHC (2C)
8081B	3546	Solid	Chlordane (n.o.s.) (1C)
8081B	3546	Solid	Chlordane (n.o.s.) (2C)
8081B	3546	Solid	delta-BHC (1C)
8081B	3546	Solid	delta-BHC (2C)
8081B	3546	Solid	Endosulfan I (1C)
8081B	3546	Solid	Endosulfan II (1C)
8081B	3546	Solid	Endosulfan II (2C)
8081B	3546	Solid	Endosulfan sulfate (1C)
8081B	3546	Solid	Endosulfan sulfate (2C)
8081B	3546	Solid	Endrin (1C)
8081B	3546	Solid	Endrin (2C)
8081B	3546	Solid	gamma-BHC (Lindane) (1C)
8081B	3546	Solid	gamma-BHC (Lindane) (2C)
8081B	3546	Solid	gamma-Chlordane (1C)
8081B	3546	Solid	gamma-Chlordane (2C)
8081B	3546	Solid	Heptachlor (1C)
8081B	3546	Solid	Heptachlor (2C)
8081B	3546	Solid	Heptachlor epoxide (1C)
8081B	3546	Solid	Heptachlor epoxide (2C)
8081B	3546	Solid	Methoxychlor (1C)
8081B	3546	Solid	Methoxychlor (2C)
8081B	3546	Solid	p,p'-DDD (1C)
8081B	3546	Solid	p,p'-DDD (2C)
8081B	3546	Solid	p,p'-DDE (1C)
8081B	3546	Solid	p,p'-DDE (2C)
8081B	3546	Solid	p,p'-DDT (1C)
8081B	3546	Solid	p,p'-DDT (2C)
8081B	3546	Solid	Toxaphene (1C)
8151A	8151A	Solid	2,4-D (1C)
8151A	8151A	Solid	2,4-D (2C)
8151A	8151A	Solid	Silvex (2,4,5-TP) (1C)
8151A	8151A	Solid	Silvex (2,4,5-TP) (2C)
8151A	8151A	Water	2,4-D (1C)
8151A	8151A	Water	Silvex (2,4,5-TP) (1C)
8260C		Water	1,1,1,2-Tetrachloroethane
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,4-Dioxane
8260C		Water	2-Butanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Acrylonitrile
8260C		Water	Benzene
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Dibromomethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethyl acetate
8260C		Water	Ethyl ether
8260C		Water	Ethyl methacrylate
8260C		Water	Ethylbenzene
8260C		Water	Freon 113
8260C		Water	Methacrylonitrile
8260C		Water	Methyl iodide
8260C		Water	Methyl methacrylate
8260C		Water	Methylene Chloride
8260C		Water	Pentachloroethane
8260C		Water	Tetrachloroethene
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,4-Dioxane

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8260C	5035	Solid	2-Butanone
8260C	5035	Solid	4-Methyl-2-pentanone
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane
8260C	5035	Solid	Ethyl acetate
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl methacrylate
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Freon 113
8260C	5035	Solid	Methacrylonitrile
8260C	5035	Solid	Methyl iodide
8260C	5035	Solid	Methyl methacrylate
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Pentachloroethane
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3510C	Water	1,2,4,5-Tetrachlorobenzene
8270D	3510C	Water	1,2,4-Trichlorobenzene
8270D	3510C	Water	1,2-Dichlorobenzene
8270D	3510C	Water	1,3-Dichlorobenzene
8270D	3510C	Water	1,4-Dichlorobenzene
8270D	3510C	Water	2,2'-oxybis[1-chloropropane]
8270D	3510C	Water	2,4,5-Trichlorophenol
8270D	3510C	Water	2,4,6-Trichlorophenol
8270D	3510C	Water	2,4-Dichlorophenol
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2,4-Dinitrotoluene
8270D	3510C	Water	2,6-Dichlorophenol
8270D	3510C	Water	2,6-Dinitrotoluene
8270D	3510C	Water	2-Acetylaminofluorene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8270D	3510C	Water	2-Chloronaphthalene
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	2-Methylphenol
8270D	3510C	Water	3-Methylcholanthrene
8270D	3510C	Water	4,4'-Methylene bis(2-chloroaniline)
8270D	3510C	Water	4-Bromophenyl-phenylether
8270D	3510C	Water	4-Chloro-3-methylphenol
8270D	3510C	Water	4-Chloroaniline
8270D	3510C	Water	4-Methylphenol
8270D	3510C	Water	4-Nitroaniline
8270D	3510C	Water	4-Nitrophenol
8270D	3510C	Water	5-Nitro-o-toluidine
8270D	3510C	Water	Acetophenone
8270D	3510C	Water	Aniline
8270D	3510C	Water	Anthracene
8270D	3510C	Water	Benzo[a]anthracene
8270D	3510C	Water	Benzo[a]pyrene
8270D	3510C	Water	Bis(2-chloroethoxy)methane
8270D	3510C	Water	Bis(2-chloroethyl)ether
8270D	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D	3510C	Water	Butylbenzylphthalate
8270D	3510C	Water	Chrysene
8270D	3510C	Water	Dibenz(a,h)anthracene
8270D	3510C	Water	Diethyl phthalate
8270D	3510C	Water	Dimethyl phthalate
8270D	3510C	Water	Di-n-butyl phthalate
8270D	3510C	Water	Di-n-octyl phthalate
8270D	3510C	Water	Fluoranthene
8270D	3510C	Water	Hexachlorobenzene
8270D	3510C	Water	Hexachlorobutadiene
8270D	3510C	Water	Hexachlorocyclopentadiene
8270D	3510C	Water	Hexachloroethane
8270D	3510C	Water	Hexachloropropene
8270D	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D	3510C	Water	Isosafrole
8270D	3510C	Water	Methapyrilene
8270D	3510C	Water	Naphthalene
8270D	3510C	Water	Nitrobenzene
8270D	3510C	Water	N-Nitrosodiethylamine
8270D	3510C	Water	N-Nitrosodi-n-butylamine
8270D	3510C	Water	N-Nitrosodi-n-propylamine
8270D	3510C	Water	N-Nitrosopiperidine
8270D	3510C	Water	N-Nitrosopyrrolidine
8270D	3510C	Water	Pentachlorobenzene
8270D	3510C	Water	Pentachloronitrobenzene
8270D	3510C	Water	Pentachlorophenol
8270D	3510C	Water	Phenacetin
8270D	3510C	Water	Phenanthrene
8270D	3510C	Water	Phenol

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8270D	3510C	Water	Pronamide
8270D	3510C	Water	Pyrene
8270D	3510C	Water	Pyridine
8270D	3510C	Water	Safrole, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	2,2'-oxybis[1-chloropropane]
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dichlorophenol
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Acetylaminofluorene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	3-Methylcholanthrene
8270D	3546	Solid	4,4'-Methylene bis(2-chloroaniline)
8270D	3546	Solid	4-Bromophenyl-phenylether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Methylphenol
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	5-Nitro-o-toluidine
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butylbenzylphthalate
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Delaware (DW)	State	N/A	01-31-21

8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Hexachloropropene
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isosafrole
8270D	3546	Solid	Methapyrilene
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodiethylamine
8270D	3546	Solid	N-Nitrosodi-n-butylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosopiperidine
8270D	3546	Solid	N-Nitrosopyrrolidine
8270D	3546	Solid	Pentachlorobenzene
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenacetin
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pronamide
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
8270D	3546	Solid	Safrole, Total
8318	8318_S_Prep	Solid	Carbaryl
8318	8318_S_Prep	Solid	Carbofuran
8318	8318_S_Prep	Solid	Methiocarb
8318	8318_S_Prep	Solid	Methomyl
8318	8318_S_Prep	Solid	Oxamyl
9012A		Solid	Cyanide, Amenable
9012A		Water	Cyanide, Amenable
9012A	9012A	Solid	Cyanide, Total
9012A	9012A	Water	Cyanide, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	ELLE
8081B	Organochlorine Pesticides (GC)	SW846	ELLE
8151A	Herbicides (GC)	SW846	ELLE
531.1	Carbamate Pesticides (HPLC)	EPA	ELLE
8318	Carbamate (HPLC)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
7471A	Mercury (CVAA)	SW846	ELLE
9012A	Cyanide, Amenable	SW846	ELLE
9012A	Cyanide, Total and/or Amenable	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
3050B	Preparation, Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE
531	Carbamates Pesticides (HPLC)	EPA	ELLE
7470A	Preparation, Mercury	SW846	ELLE
7471A	Preparation, Mercury	SW846	ELLE
8015 DAI	Prepartion, Direct Aqueous Injection	SW846	ELLE
8151A	Extraction (Herbicides)	SW846	ELLE
8318_S_Prep	Preparation, Carbamate (HPLC)	SW846	ELLE
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	ELLE
DI Leach	Deionized Water Leaching Procedure	ASTM	ELLE

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: DuPont Specialty Products USA LLC
Project/Site: Experimental Station

Job ID: 410-12176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-12176-1	PAD-B-NW-0-0.5	Solid	08/27/20 11:10	08/27/20 18:22	
410-12176-2	PAD-B-W-CTR-0-0.5	Solid	08/27/20 11:25	08/27/20 18:22	
410-12176-3	PAD-B-SUMP-1.5-2.0	Solid	08/27/20 11:30	08/27/20 18:22	
410-12176-4	PAD-B-SW-0-0.5	Solid	08/27/20 11:45	08/27/20 18:22	
410-12176-5	PAD-B-S-CTR-0-0.5	Solid	08/27/20 13:15	08/27/20 18:22	
410-12176-6	PAD-A-SE-0-0.5	Solid	08/27/20 12:15	08/27/20 18:22	
410-12176-7	PAD-A-SUMP-2-3	Solid	08/27/20 12:30	08/27/20 18:22	
410-12176-8	PAD-A-S-CTR-0-0.5	Solid	08/27/20 12:45	08/27/20 18:22	
410-12176-9	PAD-AB-S-0-0.5	Solid	08/27/20 12:55	08/27/20 18:22	
410-12176-10	PAD-TB1-082720	Water	08/27/20 13:45	08/27/20 18:22	
410-12176-11	PAD-G-E-NE-0-0.5	Solid	08/27/20 08:40	08/27/20 18:22	
410-12176-12	PAD-G-E-CTR-0-0.5	Solid	08/27/20 08:45	08/27/20 18:22	
410-12176-13	PAD-G-E-SE-0-0.5	Solid	08/27/20 08:50	08/27/20 18:22	
410-12176-14	PAD-G-S-SE-0-0.5	Solid	08/27/20 08:47	08/27/20 18:22	
410-12176-15	PAD-G-S-CTR-0-0.5	Solid	08/27/20 09:10	08/27/20 18:22	
410-12176-16	PAD-G-S-SW-0-0.5	Solid	08/27/20 09:30	08/27/20 18:22	
410-12176-17	PAD-G-S-SW-0-0.5DUP	Solid	08/27/20 09:30	08/27/20 18:22	
410-12176-18	PAD-EB1-082720	Water	08/27/20 13:50	08/27/20 18:22	

Envir ; Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

410-12176 Chain of Custody

Sample # _____

Client: Dupont Experimental Station	
Project Name: Experimental Station	Site ID #:
Project Manager: Terrell Stauler	P.O.#
Sampler: Philip Chen/Dan Sheldon	PWSID #:
Phone #: 302 563 0917	Quote #:
State where samples were collected: DE	For Compliance: Yes ☑ No ☐

For Lab Use Only
SF#:
SCR#: 262616

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other

Matrix: Soil ☑ Sediment ☐ Tissue; Water ☐ Potable ☐ Ground ☐ NPDES ☐ Surface; Other: Blank Water

Analyses Requested — Preservation and Filtration Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Water	Other: Blank Water	Total # of Containers	VOCs (8260C)	SVOCs (8270D)	Alcohols (8015B)	Carbamates (531.1)	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7470A)	Total and Amenable CN (9012A)			Remarks
									H		H	O			N	O			
PAD-B-NW-0-0.5	8/27/20	11:15	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-B-W-Ctr-0-0.5	↓	11:25	X		↓			5	X	X	X	X	X	X	X	X			
PAD-B-Sump-1.5-2.0	↓	11:30	X		↓			5	X	X	X	X	X	X	X	X			
PAD-B-SW-0-0.5	8/27/20	11:45	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-B-S-Ctr-0-0.5	8/27/20	13:15	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-A-SE-0-0.5	8/27/20	12:15	X		Soil			5	X	X	X	X	X	X	X	X	RC		
PAD-A-Sump-2-3	8/27/20	12:30	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-A-S-Ctr-0-0.5	8/27/20	12:45	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-AB-S-0-0.5	8/27/20	12:55	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-TB1-082720	8/27/20	13:45				Water		1	X										

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:
Rush results requested by (please check): E-Mail ☐ Phone ☐
E-mail Address:
Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/27/20	1430			
			[signature]	8-27-2020	1822

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 11.5 °C 8993 ③ES

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7045-0717

5.0-11.5 KAM

GS

1/20/2021 (Rev. 2)

Environmental Analysis Request/Chain of Custody

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Acct# 06643 Group # _____ Sample # _____

Client: Dupont Experimental Station	
Project Name: Experimental Station	Site ID #:
Project Manager: Terrell Stammler	P.O.#
Sampler: Philip Chen Dan Sheldon	PWSID #:
Phone #: 302 563 0917	Quote #:
State where samples were collected: DE	For Compliance: Yes ☑ No ☐

For Lab Use Only
SF#:
SCR#: 262616

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other

Matrix: ☐ Tissue ☐ Sediment ☒ Soil; ☐ Ground ☐ Potable ☐ Surface ☐ NPDES Water; Other: Blank Water

Analyses Requested — Preservation and Filtration Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Water	Other: Blank Water	Total # of Containers	VOCs (8260C) (H)	SVOCs (8270D)	Alcohols (8015B) (H)	Carbamates (531.1) (O)	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7470A) (N)	Total and Amenable CN (9012A) (O)			Remarks
PAD-G-E-NE-0-0.5	8/27/20	840	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-G-E-Ctr-0-0.5		845	X					5	X	X	X	X	X	X	X	X			
PAD-G-E-SE-0-0.5		850	X					5	X	X	X	X	X	X	X	X			
PAD-G-S-SE-0-0.5		847	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-G-S-Ctr-0-0.5		910	X					5	X	X	X	X	X	X	X	X			
PAD-G-S-SW-0-0.5		930	X		Soil			15	X	X	X	X	X	X	X	X			Field + MS/MSD
PAD-G-S-SW-0-0.5 Dup		930	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-EB1-082720	8/27/20	1350				Water		14	X	X	X	X	X	X	X	X			EQBLK

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:
Rush results requested by (please check): E-Mail ☐ Phone ☐
E-mail Address:
Phone:

Data Package Options (please check if required)
Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/20/20	1140	Denise Rodowicz	8/20	11:40
[signature] sealed in Cooler	8/27/20	1430			
			[signature]	8-27-20	1822

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 11.5 °C (3ES 89'B)

5.0-11.5

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G 5

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Envir[barcode] Request/Chain of Custody

410-12176 Chain of Custody

Sample # ____________

Client: Dupont Experimental Station					Matrix			Total # of Containers	Analyses Requested										For Lab Use Only
Project Name: Experimental Station	Site ID #:								Preservation and Filtration Codes										SF#:
Project Manager: Todd Strauber	P.O.#:								H		H	O			N	O			SCR#: 262616
Sampler: Philip Chen/Dan Sheldon	PWSID #:																		Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other
Phone #: 302 563 0917	Quote #:																		
State where samples were collected: DE	For Compliance: Yes ☑ No ☐																		
Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil ☑ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐	Other: Blank Water	Total # of Containers	VOCs (8260C)	SVOCs (8270D)	Alcohols (8015B)	Carbamates (531.1)	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7470A)	Total and Amenable CN (9012A)			Remarks
PAD-B-NW-0-0.5	8/27/20	1110	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-B-W-Ctr-0-0.5	↓	1125	X		↓			5	X	X	X	X	X	X	X	X			
PAD-B-Sump-1.5-2.0	↓	1130	X		↓			5	X	X	X	X	X	X	X	X			
PAD-B-SW-0-0.5	8/27/20	1145	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-B-S-Ctr-0-0.5	8/27/20	1315	X		Soil			5	X	X	X	X	X	X	X	X	RC		
PAD-A-SE-0-0.5	8/27/20	1210	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-A-Sump-2-3	8/27/20	1230	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-A-S-Ctr-0-0.5	8/27/20	1245	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-AB-S-0-0.5	8/27/20	1255	X		Soil			5	X	X	X	X	X	X	X	X			
PAD-TB1-082720	8/27/20	1345				Water		1	X										

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐ (Rush TAT is subject to laboratory approval and surcharges.)	Relinquished by: [signature]	Date: 8/27/20	Time: 1430	Received by:	Date	Time
Date results are needed:	Relinquished by:	Date	Time	Received by:	Date	Time
Rush results requested by (please check): E-Mail ☐ Phone ☐						
E-mail Address:	Relinquished by:	Date	Time	Received by:	Date	Time
Phone:						
Data Package Options (please check if required)	Relinquished by:	Date	Time	Received by:	Date	Time
Type I (Validation/non-CLP) ☐ MA MCP ☐						
Type III (Reduced non-CLP) ☐ CT RCP ☐	Relinquished by:	Date	Time	Received by: [signature]	Date: 8-27-20	Time: 1800
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐						
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B	Relinquished by Commercial Carrier:					
EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM	UPS ______ FedEx ______ Other ______			Temperature upon receipt 4.5 °C (8993 3525)		

4S

5.0-1/1.5 KAM

Environmental Analysis Request/Chain of Custody

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Acct# 06643 Group # ________ Sample # ________

Client: Dupont Experimental Station	
Project Name: Experimental Station	Site ID #:
Project Manager: Terrell Stumpke	P.O.#:
Sampler: Philip Chen Don Sheldon	PWSID #:
Phone #: 302 563 0917	Quote #:
State where samples were collected: DE	For Compliance: Yes ☑ No ☐

Matrix: ☐ Tissue ☒ Soil ☐ Sediment; Water: ☐ Ground ☐ Surface ☐ Potable ☐ NPDES; Other: Blank Water

Analyses Requested — Preservation and Filtration Codes

For Lab Use Only: SF#: SCR#: 262616

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other

Sample Identification	Date	Time	Grab	Composite	Matrix	Total # of Containers	VOCs (8260C) [H]	SVOCs (8270D)	Alcohols (8015B) [H]	Carbamates (531.1) [O]	Herbicides (8151A)	Pesticides/PCBs (8081/8082)	Metals (6020A/7470A) [N]	Total and Amenable CN (9012A) [O]			Remarks
PAD-6-E-NE-0-0.5	8/27/20	840	X		Soil	5	X	X	X	X	X	X	X	X			
PAD-6-E-Ctr-0-0.5		845	X			5	X	X	X	X	X	X	X	X			
PAD-6-E-SE-0-0.5		850	X			5	X	X	X	X	X	X	X	X			
PAD-6-S-SE-0-0.5		847	X		Soil	5	X	X	X	X	X	X	X	X			
PAD-6-S-Ctr-0-0.5		910	X			5	X	X	X	X	X	X	X	X			
PAD-6-S-SW-0-0.5		930	X		Soil	15	X	X	X	X	X	X	X	X			Field + MS/MSD
PAD-6-S-SW-0-0.5 Dup		930	X		Soil	5	X	X	X	X	X	X	X	X			
PAD-EB1-082720	8/27/20	1350			Water	14	X	X	X	X	X	X	X	X			EQBLK

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	8/20/20	1140	Denise Rodowicz	8/20	11:40
[signature] sealed in Cooler	8/27/20	1430			
			[signature]	8-27-20	1822

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: Locus EIM

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 11.5 °C (3ES) 8943

5.0-11.5

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7045 0717

GC

Login Sample Receipt Checklist

Client: DuPont Specialty Products USA LLC

Job Number: 410-12176-1

Login Number: 12176
List Number: 1
Creator: Metzger, Katherine A

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

Appendix H

RAIS Supporting Tables

Site-specific Risk
Pad B Worker Soil Inputs
/HTML"Output to Spreadsheet
/HTML"Output to PDF

Variable	Outdoor Worker Soil Default Value	Form-input Value	Site-specific Value Rationale
A (PEF Dispersion Constant)	16.2302	16.2302	USEPA default
A (VF Dispersion Constant)	11.911	11.911	USEPA default
A (VF Dispersion Constant - mass limit)	11.911	11.911	USEPA default
B (PEF Dispersion Constant)	18.7762	18.7762	USEPA default
B (VF Dispersion Constant)	18.4385	18.4385	USEPA default
B (VF Dispersion Constant - mass limit)	18.4385	18.4385	USEPA default
City (PEF Climate Zone) Selection	Default	Default	USEPA default
City (VF Climate Zone) Selection	Default	Default	USEPA default
C (PEF Dispersion Constant)	216.108	216.108	USEPA default
C (VF Dispersion Constant)	209.7845	209.7845	USEPA default
C (VF Dispersion Constant - mass limit)	209.7845	209.7845	USEPA default
foc (fraction organic carbon in soil) g/g	0.006	0.006	USEPA default
F(x) (function dependent on U_m/U_t) unitless	0.194	0.194	USEPA default
n (total soil porosity) L_{pore}/L_{soil}	0.43396	0.43396	USEPA default
p_b (dry soil bulk density) g/cm^3	1.5	1.5	USEPA default
p_b (dry soil bulk density - mass limit) g/cm^3	1.5	1.5	USEPA default
PEF (particulate emission factor) m^3/kg	1359344438	1359344438	USEPA default
p_s (soil particle density) g/cm^3	2.65	2.65	USEPA default
Q/C_{wind} (g/m^2-s per kg/m^3)	93.77	93.77	USEPA default
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18	68.18	USEPA default
Q/C_{vol} (g/m^2-s per kg/m^3 - mass limit)	68.18	68.18	USEPA default
A_s (PEF acres)	0.5	0.5	USEPA default
A_s (VF acres)	0.5	0.5	USEPA default
A_s (VF mass-limit acres)	0.5	0.5	USEPA default
AF_{ow} (skin adherence factor - outdoor worker) mg/cm^2	0.12	0.12	USEPA default
AT_{ow} (averaging time - outdoor worker	365	365	USEPA default
BW_{ow} (body weight - outdoor worker)	80	80	USEPA default
ED_{ow} (exposure duration - outdoor worker) y	25	25	USEPA default
EF_{ow} (exposure frequency - outdoor worker) day/y	225	225	USEPA default
ET_{ow} (exposure time - outdoor worker) h	8	2	2 hours/day
IRS_{ow} (soil ingestion rate - outdoor worker) mg/da	100	100	USEPA default
LT (lifetime) yr	70	70	USEPA default
SA_{ow} (surface area - outdoor worker) cm^2/day	3527	3527	USEPA default
T_w (groundwater temperature) Celsius	25	25	USEPA default
$Theta_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396	0.28396	USEPA default
$Theta_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15	0.15	USEPA default
T (exposure interval) s	819936000	819936000	USEPA default
T (exposure interval) yr	26	26	USEPA default
U_m (mean annual wind speed) m/s	4.69	4.69	USEPA default
U_t (equivalent threshold value	11.32	11.32	USEPA default
V (fraction of vegetative cover) unitless	0.5	0.5	USEPA default

Output generated 18FEB2021:12:43:01

Site-specific Risk
Pad B Worker for Soil

Chemical	CAS Number	Mutagen?	VOC?	Chronic RfD (mg/kg-day)	RfD Ref	Chronic RfC (mg/m^3)	RfC Ref	SF_o $(mg/kg\text{-}day)^{-1}$	SF_o Ref	IUR $(ug/m^3)^{-1}$	IUR Ref	ABS_{gi}	ABS_{derm}
Benzo[a]pyrene	50-32-8	Yes	No	3.00E-04	IRIS	2.00E-06	IRIS	1.00E+00	IRIS	6.00E-04	IRIS	1.00E+00	1.30E-01
Methiocarb	2032-65-7	No	No	-		-		-		-		1.00E+00	-
*Total Risk/HI				-		-		-		-		-	-

Output generated 18FEB2021:12:43:01

Site-specific Risk
Pad B Worker for Soil

Chemical	Volatilization Factor (m^3/kg)	DA	Particulate Emission Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	HLC (atm-m^3/mole)	Henry's Law Constant (unitless)	H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref
Benzo[a]pyrene	-	-	1.36E+09	-	4.57E-07	1.87E-05	PHYSPROP	1.87E-05	7.68E+02	PHYSPROP
Methiocarb	-	-	1.36E+09	-	1.18E-09	4.82E-08	PHYSPROP	4.82E-08	-	
**Total Risk/HI*	-	-	-	-	-	-		-	-	

Output generated 18FEB2021:12:43:01

Site-specific Risk
Pad B Worker for Soil

Chemical	Critical Temperature TC (K)	TC Ref	D_{ia} (cm^2/s)	D_{iw} (cm^2/s)	Soil Concentration (mg/kg)	Ingestion Noncarcinogenic CDI (mg/kg-day)	Dermal Noncarcinogenic CDI (mg/kg-day)	Inhalation Noncarcinogenic CDI (mg/m^3)
Benzo[a]pyrene	9.69E+02	EPA 2001 Fact Sheet	2.55E-02	6.58E-06	4.60E+00	3.54E-06	1.95E-06	1.74E-10
Methiocarb	-		5.13E-02	6.00E-06	6.60E-02	5.09E-08	-	2.49E-12
*Total Risk/HI	-		-	-	-	-	-	-

Site-specific Risk
Pad B Worker for Soil

Chemical	Ingestion Carcinogenic CDI (mg/kg-day)	Dermal Carcinogenic CDI (mg/kg-day)	Inhalation Carcinogenic CDI (ug/m^3)	Ingestion HQ	Dermal HQ	Inhalation HQ	Total HI	Ingestion Risk	Dermal Risk	Inhalation Risk	Total Risk
Benzo[a]pyrene	1.27E-06	6.97E-07	6.21E-08	1.18E-02	6.50E-03	8.69E-05	1.84E-02	1.27E-06	6.97E-07	3.73E-11	1.96E-06
Methiocarb	1.82E-08	-	8.91E-10	-	-	-	-	-	-	-	-
*Total Risk/HI	-	-	-	1.18E-02	6.50E-03	8.69E-05	1.84E-02	1.27E-06	6.97E-07	3.73E-11	1.96E-06

Output generated 18FEB2021:12:43:01

Site-specific Risk
Pad B Worker for Soil - Summary

Chemical	Ingestion HQ	Ingestion HQ (%)	Dermal HQ	Dermal HQ (%)	Inhalation HQ	Inhalation HQ (%)	Total HI	Total HI (%)	Ingestion Risk	Ingestion Risk (%)	Dermal Risk
Benzo[a]pyrene	1.18E-02	64.2%	6.50E-03	35.3%	8.69E-05	0.5%	1.84E-02	***100.0%***	1.27E-06	64.5%	6.97E-07
Methiocarb	-	-	-	-	-	-	-	-	-	-	-
**Total Risk/HI Percent*	*1.18E-02*	*64.2%*	*6.50E-03*	*35.3%*	*8.69E-05*	*0.5%*	*1.84E-02*	***100.0%***	*1.27E-06*	*64.5%*	*6.97E-07*

Output generated 18FEB2021:12:43:01

Site-specific Risk
Pad B Worker for Soil - Summary

Chemical	Dermal Risk (%)	Inhalation Risk	Inhalation Risk (%)	Total Risk	Total Risk (%)
Benzo[a]pyrene	35.5%	3.73E-11	0.0%	1.96E-06	***100.0%***
Methiocarb	-	-	-	-	**-**
**Total Risk/HI Percent*	*35.5%*	*3.73E-11*	*0.0%*	*1.96E-06*	***100.0%***

Output generated 18FEB2021:12:43:01

Site-specific Risk
Pad Worker Rinsate Water Inputs
/HTML"Output to Spreadsheet
/HTML"Output to PDF

Variable	Pad Worker Rinsate Default Value	User-specific form-input Value	Site-specific Value Rationale
AT_{iw} (averaging time - indoor worker) day/yea	365	365	USEPA default
BW_{iw} (body weight - indoor worker) kg	80	80	USEPA default
ED_{iw} (exposure duration - indoor worker) yea	25	25	USEPA default
EF_{iw} (exposure frequency - indoor worker) day/year	250	25	There are broom sweeps of the pads every other week
$ET_{iw\text{-}event}$ (exposure time - indoor worker showering) hour/event	0.71	1	Broom sweep or address water in sump - time to address = 1 hour
ET_{iw} (exposure time - indoor worker) hour/da	8	1	the worker will spend 1 hou
EV_{iw} (events - indoor worker) event/da	1	1	USEPA default
IRW_{iw} (water intake rate - indoor worker) L/day	1.25	0.0985	Time weighted average calculated based on the upper percentile values, 16 to <21 years and 21+ years, from Table 3.7 of EFH
K (volatilization factor of Andelman) L/m^3	0.5	0.5	USEPA default
LT (lifetime - indoor worker) year	70	70	USEPA default
SA_{iw} (skin surface area - indoor worker) cm^2	19652	7325	this the weighted mean skin surface area, since the adult's head, forearms, hands, lower legs, and feet get wet when washing the pad.
l_{sc} (apparent thickness of stratum corneum; used to calculate Tau) cr	0.001	0.001	USEPA default

Output generated 16FEB2021:11:01:53

Table A. Derived Water Skin Surface Area for the Outdoor Pad Worker

Age Group	Body Parts SAs from Table 7-2, Page 7-6; Total SAs from Table 7-12, page 7-43 (Male) and 7-13, page 7-44 (Female)							Adult Pad Worker
	Head cm^2	Arms cm^2	Forearms cm^2	Hands cm^2	Legs cm^2	Lower Legs cm^2	Feet cm^2	Rinsate Exposure 21+ Years
Adult Males 21+ Years	1360	3140	1413	1070	6820	2728	1370	7941
Adult Females 21+ Years	1140	2370	1067	890	5980	2392	1220	6709
Adult Male/Female Average	1250	2755	1240	980	6400	2560	1295	7325
						Selected Skin Surface Area (SA) Totals (cm^2) (1, 2):		**7325**

Notes

- = not applicable; cm^2 = square centimeters; SA = skin surface area; USEPA = U.S. Environmental Protection Agency

Sources: USEPA, 2011. Exposure Factors Handbook: 2011 Edition, Chapter 7 October 2011 Update. EPA/ 600/ R-090/052F.

Surface area values from USEPA (2011) were converted into cm^2 by multiplying the skin surface areas (m^2) by a conversion factor of 10,000 cm^2/m^2.

(1) For surface water and sediment exposure, the weighted mean values for head, forearms, hands, lower legs, and feet are used.

(2) The average of the male and female skin surface area was selected.

Table B: Derived Incidental Ingestion Rate for Rinsate Water for the Outdoor Pad Worker

				Scenario	Outdoor Pad Worker
				Reasonable Maximum Exposure	RME
				Exposure Time	1 hour/day
Age Group Years	Source	Time Weight Factor (1)	Upper Percentile L/hour		Upper Percentile L/hour
16 to <21	USEPA, 2019, Table 3-7	0.5	0.105		0.053
21+	USEPA, 2019, Table 3-7	0.5	0.092		0.046
Time-Weighted Average (L/day) =					0.0985

Notes:

(1) Time-weight factor is derived by dividing the age group timeframe (years) by the receptor age range. For the adult receptors, 20 total years of exposure is split between the 16 to <21 years and 21+ years age groups.

USEPA, 2019. Exposure Factors Handbook, Chapter 3 Update, Ingestion of Water and Other Select Liquids, February 2019.

Site-specific Risk
Pad Worker for Rinsate Water

Chemical	CAS Number	Mutagen?	VOC?	Chronic RfD (mg/kg-day)	RfD Ref	Chronic RfC (mg/m^3)	RfC Ref	$SF_o(mg/kg\text{-}day)^{-1}$	SF_oRef
Bis(2-ethylhexyl)phthalate	117-81-7	No	No	2.00E-02	IRIS	-		1.40E-02	IRIS
Hexachlorocyclohexane, Beta-	319-85-7	No	No	-		-		1.80E+00	IRIS
Naphthalene	91-20-3	No	Yes	2.00E-02	IRIS	3.00E-03	IRIS	1.20E-01	CALEPA
Trichlorophenol, 2,4,6-	88-06-2	No	No	1.00E-03	PPRTV Current	-		1.10E-02	IRIS
*Total Risk/HI				-		-		-	

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Site-specific Risk
Pad Worker for Rinsate Water

Chemical	IUR $(ug/m^3)^{-1}$	IUR Ref	ABS_{gi}	K_p (cm/hr)	FA	In EPD?	Carcinogenic Absorbed dose per event (ug/cm^2-event)	Noncarcinogenic Absorbed dose per event (ug/cm^2-event)	Tap Water Concentration (ug/L)
Bis(2-ethylhexyl)phthalate	2.40E-06	CALEPA	1.00E+00	1.13E+00	8.00E-01	No	7.54E-02	7.54E-02	7.50E+00
Hexachlorocyclohexane, Beta-	5.30E-04	IRIS	1.00E+00	2.06E-02	9.00E-01	Yes	6.29E-06	6.29E-06	5.80E-02
Naphthalene	3.40E-05	CALEPA	1.00E+00	4.66E-02	1.00E+00	Yes	2.39E-05	2.39E-05	2.50E-01
Trichlorophenol, 2,4,6-	3.10E-06	IRIS	1.00E+00	3.46E-02	1.00E+00	Yes	7.86E-04	7.86E-04	7.10E+00
*Total Risk/HI	-		-	-	-		-	-	-

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Site-specific Risk
Pad Worker for Rinsate Water

Chemical	Ingestion Noncarcinogenic CDI (mg/kg-day)	Dermal Noncarcinogenic CDI (mg/kg-day)	Inhalation Noncarcinogenic CDI (mg/m^3)	Ingestion Carcinogenic CDI (mg/kg-day)	Dermal Carcinogenic CDI (mg/kg-day)	Inhalation Carcinogenic CDI (ug/m^3)
Bis(2-ethylhexyl)phthalate	6.32E-07	4.73E-04	1.07E-05	2.26E-07	1.69E-04	3.82E-03
Hexachlorocyclohexane, Beta-	4.89E-09	3.94E-08	8.28E-08	1.75E-09	1.41E-08	2.96E-05
Naphthalene	2.11E-08	1.50E-07	3.57E-07	7.53E-09	5.34E-08	1.27E-04
Trichlorophenol, 2,4,6-	5.99E-07	4.93E-06	1.01E-05	2.14E-07	1.76E-06	3.62E-03
*Total Risk/HI	-	-	-	-	-	-

Site-specific Risk
Pad Worker for Rinsate Water

Chemical	Ingestion HQ	Dermal HQ	Inhalation HQ	Total HI	Ingestion Risk	Dermal Risk	Inhalation Risk	Total Risk
Bis(2-ethylhexyl)phthalate	3.16E-05	-	-	3.16E-05	3.16E-09	-	-	3.16E-09
Hexachlorocyclohexane, Beta-	-	-	-	-	3.14E-09	2.53E-08	-	2.84E-08
Naphthalene	1.05E-06	7.48E-06	1.19E-04	1.28E-04	9.04E-10	6.41E-09	4.33E-09	1.16E-08
Trichlorophenol, 2,4,6-	5.99E-04	4.93E-03	-	5.53E-03	2.35E-09	1.94E-08	-	2.18E-08
**Total Risk/HI*	*6.32E-04*	*4.94E-03*	*1.19E-04*	*5.69E-03*	*9.55E-09*	*5.11E-08*	*4.33E-09*	*6.50E-08*

Site-specific Risk
Pad Worker for Rinsate water - Summary

Chemical	Ingestion HQ	Ingestion HQ (%)	Dermal HQ	Dermal HQ (%)	Inhalation HQ	Inhalation HQ (%)	Total HI	Total HI (%)	Ingestion Risk	Ingestion Risk (%)
Bis(2-ethylhexyl)phthalate	3.16E-05	0.6%	-	-	-	-	3.16E-05	***0.6%***	3.16E-09	4.9%
Hexachlorocyclohexane, Beta-	-	-	-	-	-	-	-	**-**	3.14E-09	4.8%
Naphthalene	1.05E-06	0.0%	7.48E-06	0.1%	1.19E-04	2.1%	1.27E-04	***2.2%***	9.04E-10	1.4%
Trichlorophenol, 2,4,6-	5.99E-04	10.5%	4.93E-03	86.7%	-	-	5.53E-03	***97.2%***	2.35E-09	3.6%
**Total Risk/HI Percent*	*0.0006*	*11.1%*	*0.005*	*86.8%*	*0.0001*	*2.1%*	*0.006*	***100.0%***	*9.55E-09*	*14.7%*

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Site-specific Risk
Pad Worker for Rinsate water - Summary

Chemical	Dermal Risk	Dermal Risk (%)	Inhalation Risk	Inhalation Risk (%)	Total Risk	Total Risk (%)
Bis(2-ethylhexyl)phthalate	-	-	-	-	3.16E-09	***4.9%***
Hexachlorocyclohexane, Beta-	2.53E-08	38.9%	-	-	2.84E-08	***43.8%***
Naphthalene	6.41E-09	9.9%	4.33E-09	6.7%	1.16E-08	***17.9%***
Trichlorophenol, 2,4,6-	1.94E-08	29.8%	-	-	2.18E-08	***33.5%***
**Total Risk/HI Percent*	*5.11E-08*	*78.6%*	*4.33E-09*	*6.7%*	*6.50E-08*	***100.0%***