

# Report of Limited Remedial Excavations, Interim Action Former Kraft Cleaners Wausau, Wisconsin

Wausau Community Development Authority  
WDNR BRRTS No. 02-37-000294  
AECOM Project No. 60299959

June 2019



June 21, 2019

Christian Schock, Director  
Wausau Planning, Community and Economic Development  
407 Grant Street  
Wausau, WI 54403

Subject: **Report of Limited Remedial Excavations  
Interim Action  
Former Kraft Cleaners  
Wausau, Wisconsin  
WDNR BRRTS No. 02-37-000294  
AECOM Project No. 60299959**

Dear Mr. Schock:

AECOM is pleased to submit this report to the Wausau Community Development Authority, documenting results of the limited "hot spot" remedial excavations completed on October 22, 2018, as part of the Interim Action at the Former Kraft Cleaners Site in Wausau (see Figure 1). The purpose of the work was to excavate a limited quantity of high-level tetrachloroethene (PCE) contaminated soil remaining within the source area of the site.

The work was authorized by Community Development Authority's signed acceptance of Amendment 10, dated September 11, 2018; to the contract and authorization to proceed, dated May 3, 2013. The Scope of Services was preapproved by the Wisconsin Department of Natural Resources (WDNR) for Dry Cleaner Environmental Response Program eligibility in their letter of August 28, 2018.

## **Background**

AECOM performed confirmation soil borings at the Former Kraft Cleaners site in April and November 2017, to check the progress of PCE source soil remediation using the soil vapor extraction (SVE) system. Laboratory analytical results were summarized in AECOM's Confirmation Soil Borings Report (Updated), dated February 7, 2018, which indicated the following:

1. Residual PCE in soil exceeding NR 720 Residual Contaminant Levels (RCLs) in the PCE source soil after the SVE system was shut down on November 15, 2017, was generally limited to shallow soil (i.e., uppermost 4 feet) within an area of approximately 4,000 square feet. The estimated volume of residual PCE contaminated soil exceeding the NR 720 RCL for the soil-to-groundwater pathway (RCL-gw; 4.5 micrograms/kilograms ( $\mu\text{g}/\text{kg}$ )) in shallow soil was between 500 and 600 cubic yards.
2. A relatively small and isolated quantity (i.e., less than 10 cubic yards) of residual PCE in soil exceeding the NR 720 Non-Industrial Direct-Contact RCL (D-C RCL; 33,000  $\mu\text{g}/\text{kg}$ ) remained in the direct contact zone (uppermost 4 feet) in the PCE source soil area near the adjacent apartment building at 113 Callon Street.



3. The presence of residual PCE in shallow soil exceeding NR 720 RCLs was apparently beyond the reach of the SVE system. Operation of the SVE system started in June 2014. Further effort to remediate PCE contaminated soil using SVE would not likely have reduced PCE to levels below NR 720 RCLs. AECOM disconnected the remediation system and removed the SVE trailer from the site in May 2018.

Minimizing further vapor intrusion risk to the apartment building at 113 Callon Street necessitated the physical removal of shallow soil exceeding NR 720 RCLs in the PCE source soil area. Previous analytical results for lateral limit confirmation borings suggested that further risk of vapor intrusion to other buildings surrounding the source area was negligible, if not entirely eliminated.

AECOM obtained a variance approval letter from the WDNR under Sec. NR 169.29, dated February 9, 2018, to obtain one subcontractor quote for limited "hot spot" soil excavation next to the apartment building at 113 Callon Street. The additional remedial action was intended to remove the remaining high-level PCE contaminated soil in the shallow subsurface within the source area, thereby reducing the vapor intrusion risk to the apartment building even further.

### **Scope of Services**

Services associated with the limited "hot spot" excavations included the following:

1. Mailed notification letters and a site plan showing planned excavations to adjacent property owners before the work began.
2. Marked the limits of the "hot spots" to be excavated from the PCE source area near the apartment building at 113 Callon Street, based on previous confirmation soil borings.
3. Abandoned monitoring well MW-1 located within the PCE source area in accordance with the requirements of NR 141, Wis. Admin. Code and documented the well abandonment on WDNR Form 3300-005.
4. Excavated, loaded, transported, and disposed of 83.61 tons of PCE contaminated soil at the Lincoln County Landfill in Merrill, Wisconsin.
5. Field screened soil samples collected from the excavation limits for PCE using a photoionization detector. The photoionization can detect and measure relative concentrations of volatile organic compounds (VOCs) in the soil gas.
6. Evaluated excavated soil based on field screening results, and visual and olfactory evidence to determine the need for segregating and off-site disposal of contaminated soil.
7. Collected confirmation soil samples from the final excavation limits of the four "hot spots," including one sample from each sidewall and bottom for laboratory analysis of VOCs by U.S. Environmental Protection Agency Method 8260.
8. Backfilled the excavations with the segregated, non-contaminated material and imported granular material; and compacted and leveled the backfill material to match surrounding grade.

9. Photographed the site during the excavation and backfilling activities.
10. Prepared this report, documenting the results of the limited "hot spot" excavation.

## **Limited "hot spot" Excavations**

On October 22, 2018, AECOM and subcontractor, SGS Environmental Contracting, LLC (SGS), completed the limited excavation of four PCE "hot spots" exceeding the Wisconsin Administrative Code (WAC) NR 720 non-industrial D-C RCL within the source area. Four pits (Pit A through Pit D) were excavated at locations identified from confirmation soil sampling results obtained by AECOM in April 2017 and November 2017. A layout of the excavation pits and confirmation soil sample locations is provided in Figure 2.

The pits were dug to a maximum depth of 8 feet below ground surface using a backhoe. AECOM field screened excavation samples with a photoionization detector. SGS loaded the excavated soil into dump trucks and transported the material to the Lincoln County landfill. A total of 83.61 tons of the PCE contaminated soil was disposed of at the landfill.

Confirmation soil samples were collected from the bottoms and sidewalls of the four pits; the pits were backfilled with non-contaminated and imported granular fill soil, compacted, and leveled to match surrounding grade.

Monitoring well MW-1 was abandoned during excavation activities in accordance to the requirements of WAC NR 141. A completed WDNR Form 3300-005, documenting the abandonment of MW-1, is enclosed.

A photograph log is enclosed, documenting the limited "hot spot" excavations.

## **Off-Site Disposal**

PCE contaminated soil excavated from the source area of the site was hauled to the Lincoln County Landfill by SGS Environmental Services for disposal. Copies of landfill disposal tickets are enclosed.

## **Confirmation Soil Sampling and Analytical Results**

Twenty confirmation soil samples were collected from the four pits prior to backfilling. The confirmation soil samples were submitted to Pace Analytical Services (Pace) in Green Bay for VOC analysis. Analytical results for the soil samples were compared to the WDNR's NR 720 RCLs spreadsheet for soil cleanup standards, updated June 2018.

According to Pace's report, no residual PCE contamination exceeding the NR 720 non-industrial D-C RCL was detected in the confirmation samples. PCE was detected in the confirmation soil samples collected from the four excavation pits at concentrations ranging from 39.2 µg/kg to 2,680 µg/kg, exceeding only the NR 720 RCL-gw of 4.5 µg/kg. Trimethylbenzenes, xylenes, and naphthalene were also detected in the confirmation soil samples, but at concentrations below their respective NR 720 RCLs.

A Site Plan showing the remedial excavations limits and confirmation soil samples analytical results is enclosed as Figure 2. Two post-remediation cross-sections showing the extent of PCE contaminated soil excavation and confirmation soil sample analytical results is provided as Figure 3 and Figure 4.



## Conclusions

Based on the results of the limited "hot spot" excavations, conclusions regarding the current condition of subsurface soil at the Former Kraft Cleaners site include the following:

1. Soil having residual PCE concentrations exceeding the NR 720 Non-Industrial D-C RCL (33,000 µg/kg) does not appear to be present within the direct contact zone (uppermost 4 feet) at the site; however, residual PCE in soil does remain at concentrations exceeding the NR 720 RCL-gw (4.5 ug/kg) in the source area of the site. Residual PCE soil exceeding the NR 72 RCL remains within an area of approximately 950 square yards (8,550 square feet), mostly at depths of 8 feet or less below ground surface (see Figure 2).
2. A total of 83.61 tons of PCE contaminated soil was excavated from the source area of the site and transported to the Lincoln County Landfill for disposal.
3. Risk of further vapor intrusion to the apartment building at 113 Callon Street from the PCE source area has been reduced by the physical removal of high-level residual PCE contaminated soil. Additionally, laboratory results for sub-slab confirmation vapor intrusion samples collected by AECOM from buildings immediately surrounding the PCE source area in February 2019 were below Wisconsin Vapor Risk Screening Levels. A second and final set of sub-slab confirmation vapor intrusion samples is scheduled to be collected in June 2019 to verify that VOC vapor concentrations continue to remain below Wisconsin Vapor Risk Screening Levels.

## Recommendations

Recommendations for the Former Kraft Cleaners site include the following:

1. While post-excavation residual PCE levels remain above the NR 720 RCL-gw in soil, they appear low enough to support a regulator case closure request. No further PCE source soil investigation or remediation is recommended.
2. Placement of a pavement cap on the site where residual PCE exceeds the NR 720 RCL-gw for PCE is recommended to provide an impervious barrier to potential downward migration of contamination to the water table after case closure. AECOM is planning to install a pavement cap over the site in the summer of 2019.

We appreciate the opportunity to assist the Wausau Community Development Authority with this project.



If you have any questions regarding the confirmation soil borings results contained in this report or if you need additional assistance, please call Kyle Wagoner at (715) 342-3038.

Sincerely,

Marcus Hopkins  
Geologist

[marcus.hopkins@aecom.com](mailto:marcus.hopkins@aecom.com)

Kyle W. Wagoner, P.G., CHMM  
Project Manager

[kyle.wagoner@aecom.com](mailto:kyle.wagoner@aecom.com)

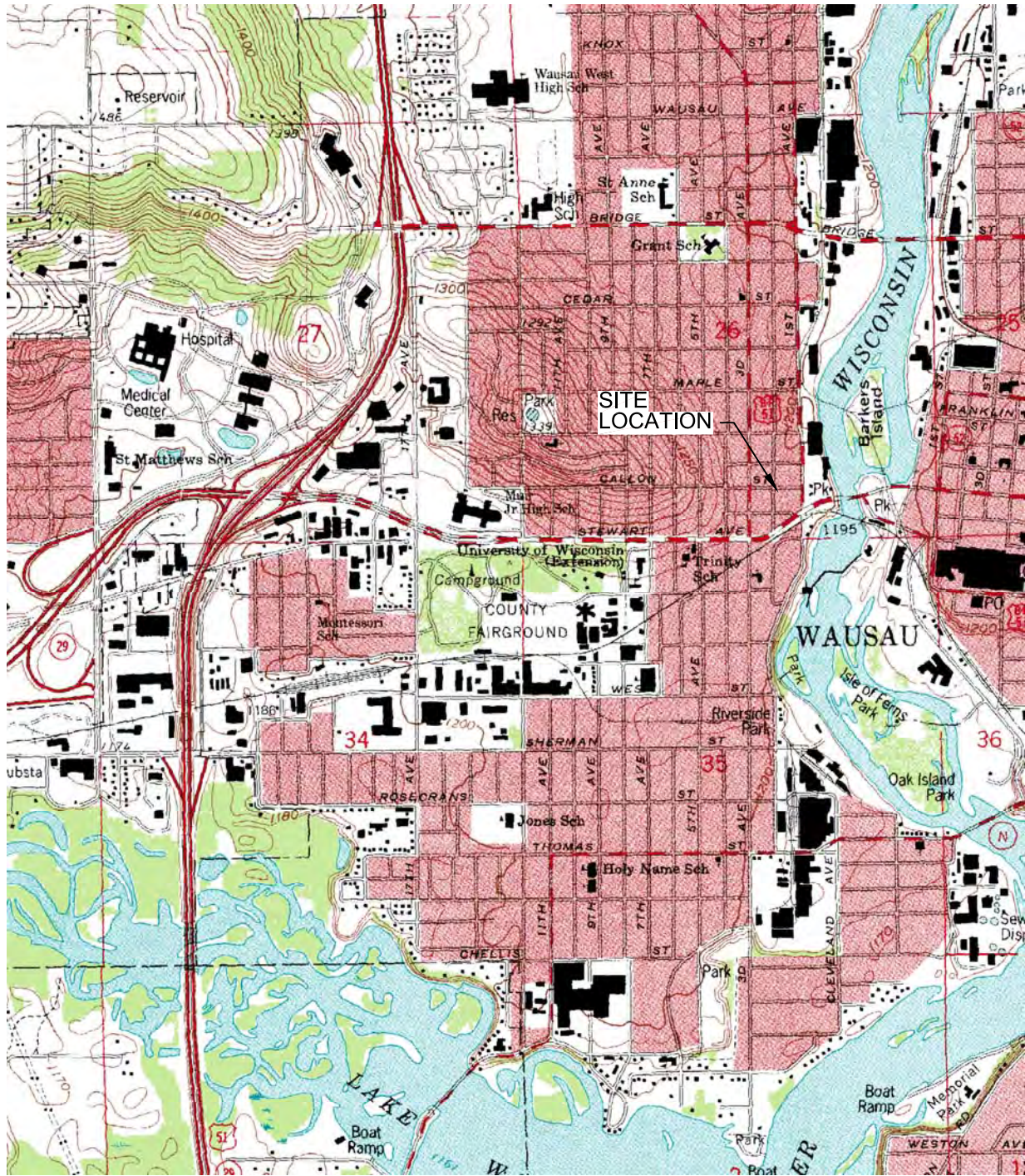
Enclosures:    Figure 1 – Site Location Map  
                  Figure 2 – Confirmation Soil Samples & Results  
                  Figure 3 – Post-Remediation Cross-Section A-A'  
                  Figure 4 – Post-Remediation Cross-Section B-B'  
                  Table 1 – Confirmation Sample Analytical Results – Limited Remedial Excavation  
                  Photograph Log  
                  Well Abandonment Form for MW-1  
                  Pace Analytical Laboratory Report  
                  Soil Disposal Documentation

c/encl:            Kevin Fabel, Wausau Community Development Department (electronic only)  
                  Matt Thompson, Wisconsin Department of Natural Resources – Eau Claire

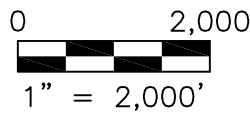
# Figures



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SOURCE: USGS WAUSAU WEST, WISCONSIN TOPOGRAPHIC QUADRANGLE MAP, DATED 1993.



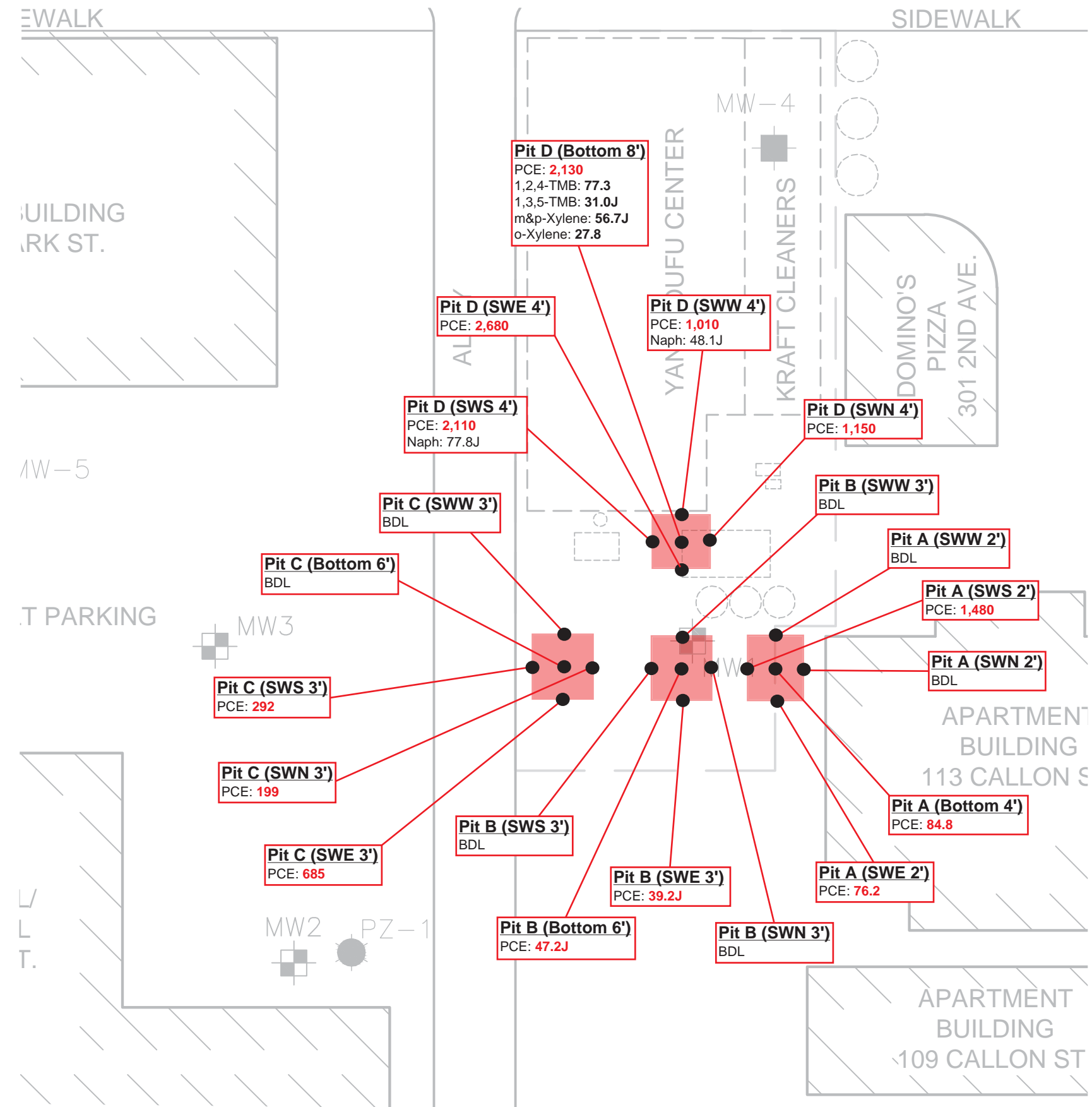
200 Indiana Avenue  
 Stevens Point, WI 54481  
 715.341.8110  
 www.aecom.com  
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**SITE LOCATION MAP  
 FORMER KRAFT CLEANERS  
 303-305 SOUTH 2ND AVENUE  
 WAUSAU, WISCONSIN**

Drawn :	DMA 08/2014
Checked:	DWF 08/2014
Approved:	DSS 08/2014
PROJECT NUMBER	60299959
FIGURE NUMBER	1



P:\60299959\900-WorkingDocs-CAD\910-CAD\20-SHEETS\60299959\_SOIL-BORINGS\_January\_2019.dwg; 1/14/2019 2:48:12 PM; NOVAK, DANIEL; STS.stb



**LEGEND**

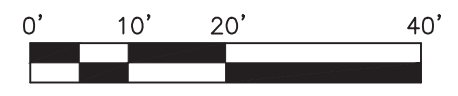
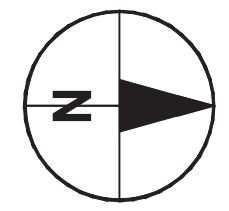
- AECOM PIEZOMETER
- AECOM GROUNDWATER MONITORING WELL
- CWE GROUNDWATER MONITORING WELL
- Confirmation soil sample locations

**PROPERTY LEGEND**

- EXISTING BUILDING
- FORMER UST
- FORMER BUILDING
- FORMER UST
- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- Excavation Limits

**Notes:**

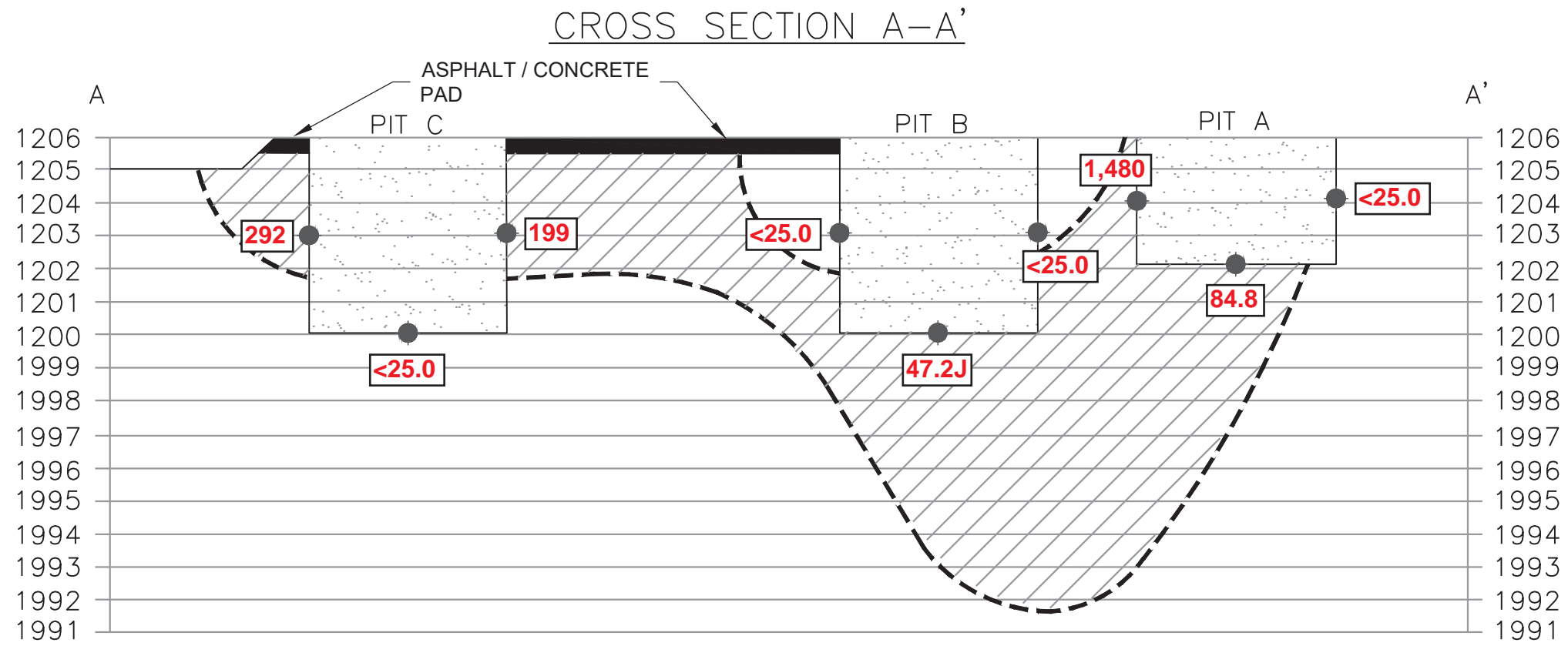
SWN - Side Wall North  
 SWE - Side Wall East  
 SWS - Side Wall South  
 SWW - Side Wall West  
 BDL - Below Detection Limit  
**Red Text** - Indicates exceedence of NR 720 soil-to-groundwater RCL.  
 Results are in micrograms per kilogram.



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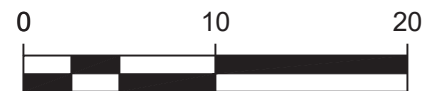
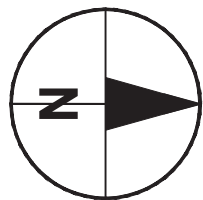
CONFIRMATION SOIL SAMPLES & RESULTS (OCTOBER 2018)  
 LIMITED "HOT SPOT" REMOVAL  
 FORMER KRAFT CLEANERS  
 303-305 SOUTH SECOND AVENUE  
 WAUSAU, WISCONSIN

Drawn :	DAN 12/2017
Checked:	DWF 12/2017
Approved:	DSS 12/2017
PROJECT NUMBER	60299959
FIGURE NUMBER	2



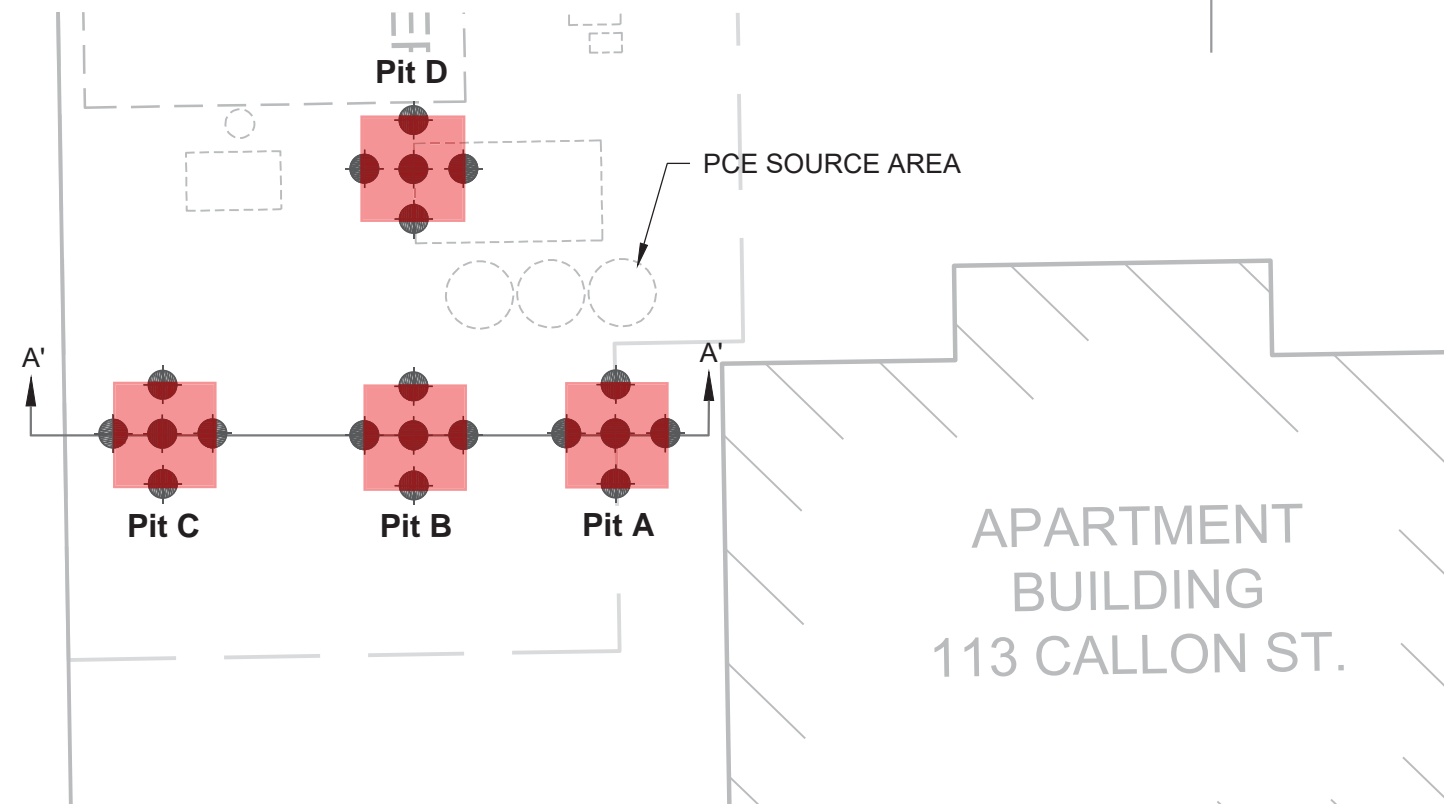
**LEGEND**

- RESIDUAL SOIL CONTAMINATION EXCEEDING NR 720 SOIL TO GROUNDWATER PATHWAY RCL FOR PCL
- CLEAN FILL MATERIAL
- CONFIRMATION SAMPLE
- EXCAVATION LIMITS
- TETRACHLOROETHENE (PCE) CONCENTRATION (ug/kg)



1" = 10'  
HORIZ. SCALE

SECOND AVENUE



POST-REMEDIATION CROSS SECTION A-A'  
LIMITED HOT SPOT EXCAVATION (OCTOBER 2018)  
FORMER KRAFT CLEANERS  
303-305 SOUTH SECOND AVENUE  
WAUSAU, WISCONSIN

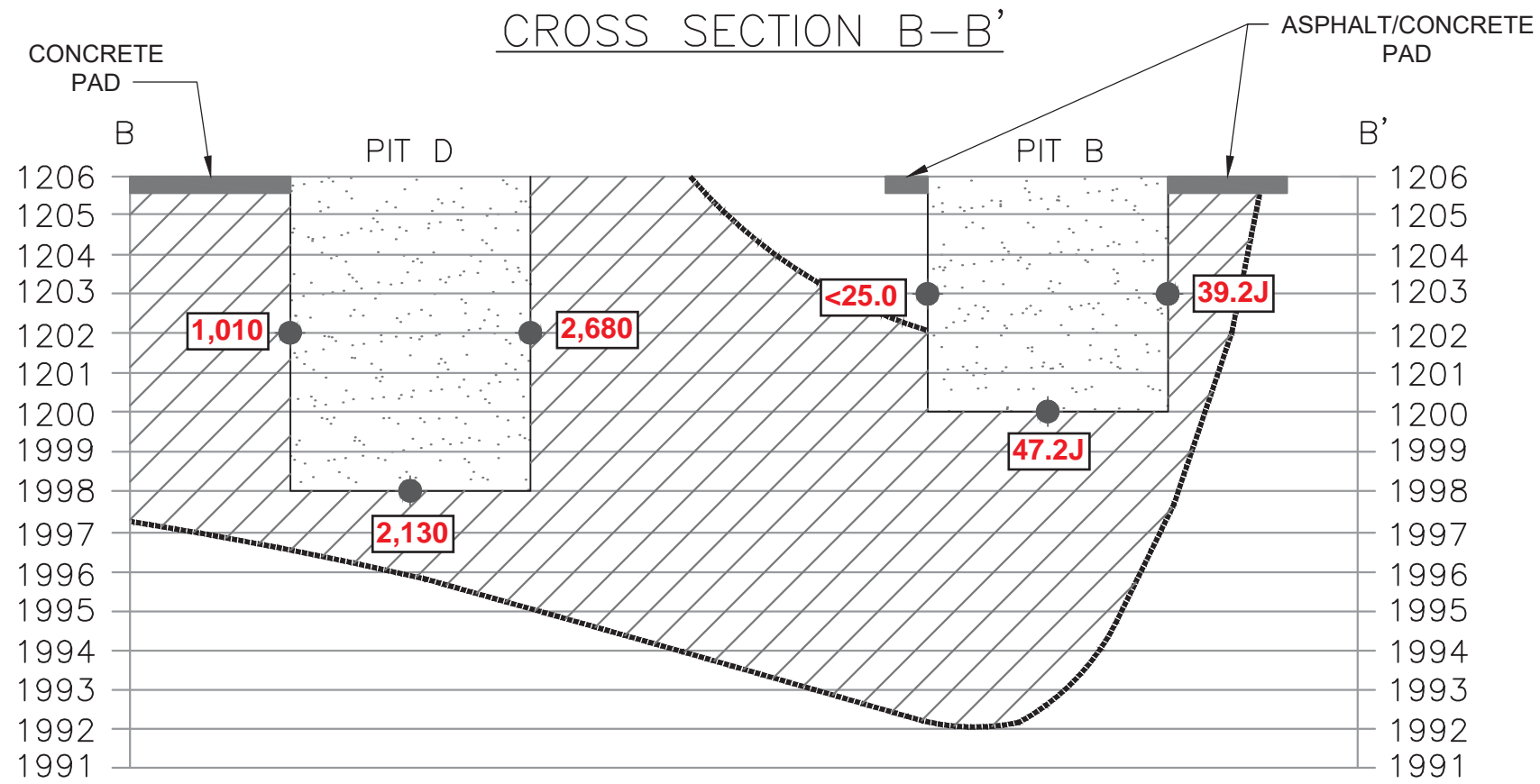
Drawn : DAN 01/2018

Checked:

Approved:

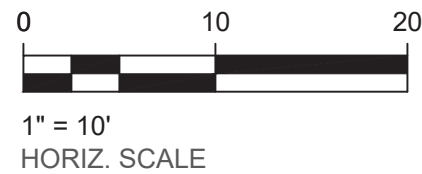
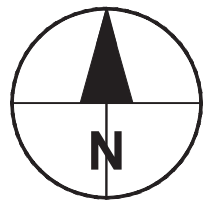
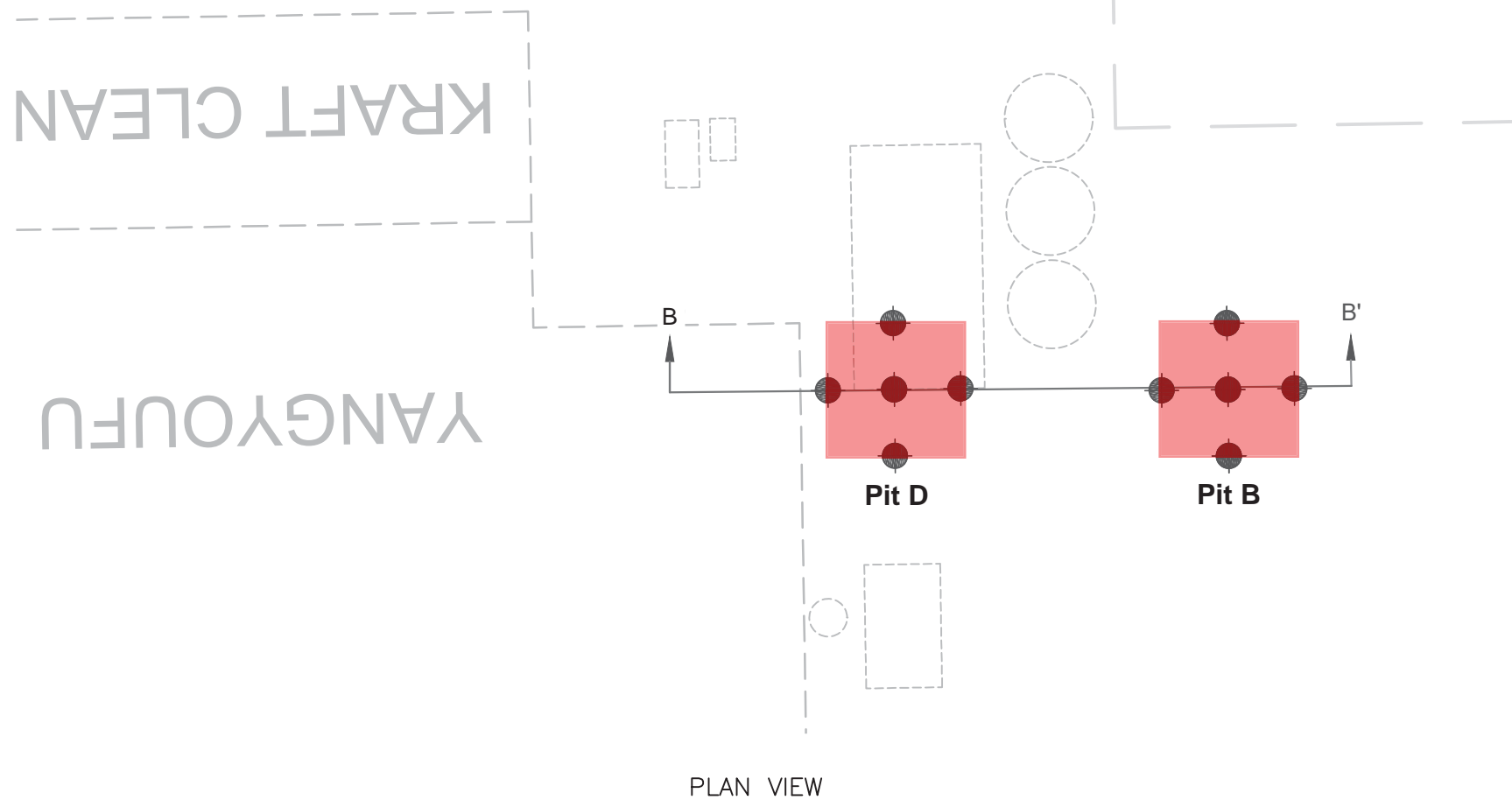
PROJECT NUMBER 60299959

FIGURE NUMBER 3



**LEGEND**

- RESIDUAL SOIL CONTAMINATION EXCEEDING NR 720 SOIL-GW PATHWAY RCL FOR PCE.
- CLEAN FILL MATERIAL
- CB-7 CONFIRMATION SAMPLE
- EXCAVATION LIMITS
- TETRACHLOROETHENE (PCE) CONCENTRATION (ug/kg)



POST-REMEDIATION CROSS SECTION B-B'  
LIMITED HOT SPOT EXCAVATION (OCTOBER 2018)  
FORMER KRAFT CLEANERS  
303-305 SOUTH SECOND AVENUE  
WAUSAU, WISCONSIN

Drawn : DAN 02/2019

Checked:

Approved:

PROJECT NUMBER 60299959

FIGURE NUMBER 4

P:\60299959\900-WorkingDocs-CAD\910-CAD\20-SHEETS\February2019\Figure 5.dwg; 2/7/2019 1:38:04 PM; NOVAK, DANIEL; STS.stb

# Table 1



**Table 1**  
**Confirmation Sample Analytical Results - Limited Remedial Excavation**  
**October 2018**  
**Former Kraft Cleaners**  
**Wausau, Wisconsin**  
**Wisconsin Department of Natural Resources BRRTS No. 02-37-000294**  
**AECOM Project No. 60299959**

Sample ID: Sample Depth (feet): Sample Location: Sample Date:				Pit A					Pit B				
				Pit A Bottom	Pit A (SWN)	Pit A (SWE)	Pit A (SWS)	Pit A (SWW)	Pit B Bottom	Pit B (SWN)	Pit B (SWE)	Pit B (SWS)	Pit B (SWW)
				4	2	2	2	2	6	3	3	3	3
				Bottom	SWN	SWE	SWS	SWW	Bottom	SWN	SWE	SWS	SWW
				10/22/2018					10/22/2018				
Analyte	Industrial D-C RCL	Non-Industrial D-C RCL	RCL-gw	Results									
<b>VOCs (µg/kg)</b>													
Tetrachloroethene (PCE)	145,000	33,000	4.5	<b>84.8</b>	<25.0	<b>76.2</b>	<b>1,480</b>	<25.0	<b>47.2J</b>	<25.0	<b>39.2J</b>	<25.0	<25.0

Sample ID: Sample Depth (feet): Sample Location: Sample Date:				Pit C					Pit D				
				Pit C Bottom	Pit C (SWN)	Pit C (SWE)	Pit C (SWS)	Pit C (SWW)	Pit D Bottom	Pit D (SWN)	Pit D (SWE)	Pit D (SWS)	Pit D (SWW)
				6	3	3	3	3	8	4	4	4	4
				Bottom	SWN	SWE	SWS	SWW	Bottom	SWN	SWE	SWS	SWW
				10/22/2018					10/22/2018				
Analyte	Industrial D-C RCL	Non-Industrial D-C RCL	RCL-gw	Results									
<b>VOCs (µg/kg)</b>													
Tetrachloroethene (PCE)	145,000	33,000	4.5	<25.0	<b>199</b>	<b>685</b>	<b>292</b>	<25.0	<b>2,130</b>	<b>1,150</b>	<b>2,680</b>	<b>2,110</b>	<b>1,010</b>
1,2,4-Trimethylbenzene	219,000	219,000	1,379	<25.0	<25.0	<25.0	<25.0	<25.0	77.3	<25.0	<25.0	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1,379	<25.0	<25.0	<25.0	<25.0	<25.0	31.0J	<25.0	<25.0	<25.0	<25.0
m&p-Xylene	778,000	778,000	3,960	<50.0	<50.0	<50.0	<50.0	<50.0	56.7J	<50.0	<50.0	<50.0	<50.0
o-Xylene	434,000	434,000	3,960	<25.0	<25.0	<25.0	<25.0	<25.0	27.8J	<25.0	<25.0	<25.0	<25.0
Naphthalene	24,100	5,520	658	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	77.8J	48.1J

**Notes:**

1. SWN - Side Wall North
2. SWE - Side Wall East
3. SWS - Side Wall South
4. SWW - Side Wall West
5. Analytes listed are those reported above the Limit of Detection (LOD) by the laboratory.
6. Non-Industrial D-C RCL refers to the Not-To-Exceed, non-industrial Direct-Contact Residual Contaminant Levels taken from the WDNR's RCLs spreadsheet, June 2018.
7. Industrial D-C RCL refers to the Not-To-Exceed, non-industrial Direct-Contact Residual Contaminant Levels taken from the WDNR's RCLs spreadsheet, updated June 2018.
8. RCL-gw refers to the Soil-to-Groundwater Residual Contaminant Level, DF = 2, taken from the WDNR's RCLs spreadsheet, updated June 2018.
9. Bold result indicates RCL exceedence (any).
10. J means "Estimated concentration below laboratory quantitation level."

# Photograph Log



## PHOTOGRAPH LOG

**Site Name:** Former Kraft Cleaners

**Site Location:** 303 – 305 South 2<sup>nd</sup> Avenue,  
City of Wausau, WI 54401

**Project No.** 60299959

**Photo No.**

**1**

**Date:**

10/22/18

**Description:**

Excavation Pit D.



**Photo No.**

**2**

**Date:**

10/22/18

**Description:**

Excavation Pit D.



## PHOTOGRAPH LOG

**Site Name:** Former Kraft Cleaners

**Site Location:** 303 – 305 South 2<sup>nd</sup> Avenue,  
City of Wausau, WI 54401

**Project No.** 60299959

**Photo No.**

**3**

**Date:**

10/22/18

**Direction Photo Taken:**

East

**Description:**

Excavation Pit A.



**Photo No.**

**4**

**Date:**

10/22/18

**Description:**

Excavation Pit A.





## PHOTOGRAPH LOG

**Site Name:** Former Kraft Cleaners

**Site Location:** 303 – 305 South 2<sup>nd</sup> Avenue,  
City of Wausau, WI 54401

**Project No.** 60299959

**Photo No.**  
**5**

**Date:**  
10/22/18

**Description:**

Excavation Pit A.



**Photo No.**  
**6**

**Date:**  
10/22/18

**Description:**

Excavation Pit B.



## PHOTOGRAPH LOG

<b>Site Name:</b> Former Kraft Cleaners	<b>Site Location:</b> 303 – 305 South 2 <sup>nd</sup> Avenue, City of Wausau, WI 54401	<b>Project No.</b> 60299959
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<b>Photo No.</b> <b>7</b>	<b>Date:</b> 10/22/18
------------------------------	--------------------------

**Description:**  
Excavation Pit B.



<b>Photo No.</b> <b>8</b>	<b>Date:</b> 10/22/18
------------------------------	--------------------------

**Description:**  
Excavation Pit B.



## PHOTOGRAPH LOG

<b>Site Name:</b> Former Kraft Cleaners		<b>Site Location:</b> 303 – 305 South 2 <sup>nd</sup> Avenue, City of Wausau, WI 54401	<b>Project No.</b> 60299959
<b>Photo No.</b> <b>9</b>	<b>Date:</b> 10/22/18		
<b>Direction Photo Taken:</b>  Northwest			
<b>Description:</b>  Excavation Pit C.			

<b>Photo No.</b> <b>10</b>	<b>Date:</b> 10/22/18	
<b>Description:</b>  Excavation Pit C.		

## PHOTOGRAPH LOG

**Site Name:** Former Kraft Cleaners

**Site Location:** 303 – 305 South 2<sup>nd</sup> Avenue,  
City of Wausau, WI 54401

**Project No.** 60299959

**Photo No.**  
**11**

**Date:**  
10/22/18

**Description:**

Excavation Pit C.



**Photo No.**  
**12**

**Date:**  
10/22/18

**Direction Photo Taken:**

North

**Description:**

Excavation Pit C.



## PHOTOGRAPH LOG

**Site Name:** Former Kraft Cleaners

**Site Location:** 303 – 305 South 2<sup>nd</sup> Avenue,  
City of Wausau, WI 54401

**Project No.** 60299959

**Photo No.**  
**13**

**Date:**  
10/22/18

**Direction Photo Taken:**

Northeast

**Description:**

Excavations being backfilled with clean fill material.



**Photo No.**  
**14**

**Date:**  
10/22/18

**Direction Photo Taken:**

North

**Description:**

Excavations being backfilled with clean fill material.



## PHOTOGRAPH LOG

**Site Name:** Former Kraft Cleaners

**Site Location:** 303 – 305 South 2<sup>nd</sup> Avenue,  
City of Wausau, WI 54401

**Project No.** 60299959

**Photo No.**  
**15**

**Date:**  
10/22/18

**Direction Photo Taken:**

North

**Description:**

Fill material being compacted within the excavation pits.



**Photo No.**  
**16**

**Date:**  
10/22/18

**Direction Photo Taken:**

Northwest

**Description:**

Fill material being compacted within the excavation pits.



## PHOTOGRAPH LOG

**Site Name:** Former Kraft Cleaners      **Site Location:** 303 – 305 South 2<sup>nd</sup> Avenue, City of Wausau, WI 54401      **Project No.** 60299959

**Photo No.**  
**17**      **Date:**  
10/22/18

**Direction Photo Taken:**  
  
West

**Description:**  
  
Fill material being compacted within the excavation pits.



**Photo No.**  
**18**      **Date:**  
10/22/18

**Direction Photo Taken:**  
  
Northwest

**Description:**  
  
Excavation area being graded and compacted with clean fill material.



## PHOTOGRAPH LOG

<b>Site Name:</b> Former Kraft Cleaners		<b>Site Location:</b> 303 – 305 South 2 <sup>nd</sup> Avenue, City of Wausau, WI 54401		<b>Project No.</b> 60299959
<b>Photo No.</b> <b>19</b>	<b>Date:</b> 10/22/18			
<b>Direction Photo Taken:</b>  Southwest				
<b>Description:</b>  Excavation area being graded and compacted with clean fill material.				

<b>Photo No.</b> <b>20</b>	<b>Date:</b> 10/22/18			
<b>Direction Photo Taken:</b>  Northeast				
<b>Description:</b>  Excavation area being graded and compacted with clean fill material.				



# Well Abandonment Form MW-1



Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

<b>1. Well Location Information</b>			<b>2. Facility / Owner Information</b>		
County <b>Marathon</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Former Kraft Cleaners</b>		
Latitude / Longitude (Degrees and Minutes) <b>44° 57' 63.3" N</b> <b>89° 38' 25.9" W</b>		Method Code (see instructions) <b>MW-1</b>	Facility ID (FID or PWS) _____		
License/Permit/Monitoring # _____		Original Well Owner <b>City of Wausau Community Development Authority</b>			
Well Street Address <b>303-305 South 2nd Ave</b>		Present Well Owner " " " "			
Well City, Village or Town <b>Wausau</b>		Mailing Address of Present Owner <b>407 Grant Street</b>			
Subdivision Name _____		City of Present Owner <b>Wausau</b>		State <b>WI</b>	ZIP Code <b>54403</b>

Reason For Removal From Service  
**monitoring complete**

WI Unique Well # of Replacement Well  
\_\_\_\_\_

**3. Well / Drillhole / Borehole Information**

Monitoring Well  
 Water Well  
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)  
\_\_\_\_\_

If a Well Construction Report is available, please attach.  
\_\_\_\_\_

Construction Type:  
 Drilled       Driven (Sandpoint)       Dug  
 Other (specify): \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?       Yes       No       N/A

Liner(s) removed?       Yes       No       N/A

Screen removed?       Yes       No       N/A

Casing left in place?       Yes       No       N/A

Was casing cut off below surface?       Yes       No       N/A

Did sealing material rise to surface?       Yes       No       N/A

Did material settle after 24 hours?       Yes       No       N/A

If yes, was hole retopped?       Yes       No       N/A

If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A

Formation Type:  
 Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.)  
**25'**

Casing Diameter (in.)  
**2"**

Lower Drillhole Diameter (in.)  
**N/A**

Casing Depth (ft.)  
**N/A**

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)?  
**N/A**

Depth to Water (feet)  
**17.20**

Required Method of Placing Sealing Material:  
 Conductor Pipe-Gravity       Conductor Pipe-Pumped  
 Screened & Poured (Bentonite Chips)       Other (Explain): **Gravity**

Sealing Materials:  
 Neat Cement Grout       Clay-Sand Slurry (11 lb./gal. wt.)  
 Sand-Cement (Concrete) Grout       Bentonite-Sand Slurry " "  
 Concrete       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:  
 Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>3/8" Bentonite Chips</b>	Surface	<b>25'</b>	<b>1 Bag</b>	

**6. Comments**  
**well piping broke off @ ~ 3' below ground surface**

<b>7. Supervision of Work</b>			<b>DNR Use Only</b>	
Name of Person or Firm Doing Filling & Sealing <b>SGS Environmental Contracting</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>10/22/18</b>	Date Received _____	Noted By _____
Street or Route <b>N 2570 Dayton Dr</b>		Telephone Number ( ) _____	Comments _____	
City <b>Merrill</b>	State <b>WI</b>	ZIP Code <b>54452</b>	Signature of Person Doing Work 	Date Signed <b>10/22/18</b>

# Pace Analytical Laboratory Report



October 29, 2018

Kyle Wagoner  
AECOM, Inc. - Stevens Point  
200 INDIANA AVE  
Stevens Point, WI 54481

RE: Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

Dear Kyle Wagoner:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska  
christopher.hyska@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Marcus Hopkins, AECOM, Inc. - Stevens Point



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178274001	PIT A BOTTOM	Solid	10/22/18 12:15	10/24/18 11:05
40178274002	PIT A (SWN)	Solid	10/22/18 12:35	10/24/18 11:05
40178274003	PIT A (SWE)	Solid	10/22/18 12:25	10/24/18 11:05
40178274004	PIT A (SWS)	Solid	10/22/18 12:33	10/24/18 11:05
40178274005	PIT A (SWW)	Solid	10/22/18 12:30	10/24/18 11:05
40178274006	PIT B BOTTOM	Solid	10/22/18 13:30	10/24/18 11:05
40178274007	PIT B (SWN)	Solid	10/22/18 13:20	10/24/18 11:05
40178274008	PIT B (SWE)	Solid	10/22/18 13:10	10/24/18 11:05
40178274009	PIT B (SWS)	Solid	10/22/18 13:15	10/24/18 11:05
40178274010	PIT B (SWW)	Solid	10/22/18 13:25	10/24/18 11:05
40178274011	PIT C BOTTOM	Solid	10/22/18 13:55	10/24/18 11:05
40178274012	PIT C (SWN)	Solid	10/22/18 13:45	10/24/18 11:05
40178274013	PIT C (SWE)	Solid	10/22/18 13:40	10/24/18 11:05
40178274014	PIT C (SWS)	Solid	10/22/18 13:50	10/24/18 11:05
40178274015	PIT C (SWW)	Solid	10/22/18 13:35	10/24/18 11:05
40178274016	PIT D BOTTOM	Solid	10/22/18 11:30	10/24/18 11:05
40178274017	PIT D (SWN)	Solid	10/22/18 11:23	10/24/18 11:05
40178274018	PIT D (SWE)	Solid	10/22/18 11:28	10/24/18 11:05
40178274019	PIT D (SWS)	Solid	10/22/18 11:25	10/24/18 11:05
40178274020	PIT D (SWW)	Solid	10/22/18 11:20	10/24/18 11:05
40178274021	TRIP BLANK	Water	10/22/18 00:00	10/24/18 11:05

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40178274001	PIT A BOTTOM	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274002	PIT A (SWN)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274003	PIT A (SWE)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274004	PIT A (SWS)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274005	PIT A (SWW)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274006	PIT B BOTTOM	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274007	PIT B (SWN)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274008	PIT B (SWE)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274009	PIT B (SWS)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274010	PIT B (SWW)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274011	PIT C BOTTOM	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274012	PIT C (SWN)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274013	PIT C (SWE)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274014	PIT C (SWS)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274015	PIT C (SWW)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274016	PIT D BOTTOM	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274017	PIT D (SWN)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274018	PIT D (SWE)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40178274019	PIT D (SWS)	EPA 8260	SMT	64	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40178274020	PIT D (SWW)	ASTM D2974-87	AH	1	PASI-G
		EPA 8260	SMT	64	PASI-G
40178274021	TRIP BLANK	ASTM D2974-87	AH	1	PASI-G
		EPA 8260	HNW	64	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 60299959 FMR KRAFT CLEANERS  
 Pace Project No.: 40178274

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40178274001</b>	<b>PIT A BOTTOM</b>					
EPA 8260	Tetrachloroethene	84.8	ug/kg	62.0	10/26/18 12:57	
ASTM D2974-87	Percent Moisture	3.2	%	0.10	10/25/18 15:31	
<b>40178274002</b>	<b>PIT A (SWN)</b>					
ASTM D2974-87	Percent Moisture	4.0	%	0.10	10/25/18 15:31	
<b>40178274003</b>	<b>PIT A (SWE)</b>					
EPA 8260	Tetrachloroethene	76.2	ug/kg	62.8	10/26/18 13:44	
ASTM D2974-87	Percent Moisture	4.5	%	0.10	10/25/18 15:31	
<b>40178274004</b>	<b>PIT A (SWS)</b>					
EPA 8260	Tetrachloroethene	1480	ug/kg	65.9	10/26/18 14:07	
ASTM D2974-87	Percent Moisture	8.9	%	0.10	10/25/18 15:31	
<b>40178274005</b>	<b>PIT A (SWW)</b>					
ASTM D2974-87	Percent Moisture	14.9	%	0.10	10/25/18 15:31	
<b>40178274006</b>	<b>PIT B BOTTOM</b>					
EPA 8260	Tetrachloroethene	47.2J	ug/kg	62.5	10/26/18 14:53	
ASTM D2974-87	Percent Moisture	4.0	%	0.10	10/25/18 15:31	
<b>40178274007</b>	<b>PIT B (SWN)</b>					
ASTM D2974-87	Percent Moisture	4.6	%	0.10	10/25/18 15:31	
<b>40178274008</b>	<b>PIT B (SWE)</b>					
EPA 8260	Tetrachloroethene	39.2J	ug/kg	62.8	10/26/18 15:39	
ASTM D2974-87	Percent Moisture	4.5	%	0.10	10/25/18 15:32	
<b>40178274009</b>	<b>PIT B (SWS)</b>					
ASTM D2974-87	Percent Moisture	4.0	%	0.10	10/25/18 15:48	
<b>40178274010</b>	<b>PIT B (SWW)</b>					
ASTM D2974-87	Percent Moisture	3.3	%	0.10	10/25/18 15:48	
<b>40178274011</b>	<b>PIT C BOTTOM</b>					
ASTM D2974-87	Percent Moisture	3.6	%	0.10	10/25/18 15:48	
<b>40178274012</b>	<b>PIT C (SWN)</b>					
EPA 8260	Tetrachloroethene	199	ug/kg	62.9	10/26/18 17:12	
ASTM D2974-87	Percent Moisture	4.6	%	0.10	10/25/18 15:49	
<b>40178274013</b>	<b>PIT C (SWE)</b>					
EPA 8260	Tetrachloroethene	685	ug/kg	62.2	10/26/18 17:35	
ASTM D2974-87	Percent Moisture	3.6	%	0.10	10/25/18 15:49	
<b>40178274014</b>	<b>PIT C (SWS)</b>					
EPA 8260	Tetrachloroethene	292	ug/kg	62.2	10/26/18 17:58	
ASTM D2974-87	Percent Moisture	3.6	%	0.10	10/25/18 15:49	
<b>40178274015</b>	<b>PIT C (SWW)</b>					
ASTM D2974-87	Percent Moisture	2.3	%	0.10	10/25/18 15:49	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40178274016</b>	<b>PIT D BOTTOM</b>					
EPA 8260	Tetrachloroethene	2130	ug/kg	64.0	10/26/18 18:44	
EPA 8260	1,2,4-Trimethylbenzene	77.3	ug/kg	64.0	10/26/18 18:44	
EPA 8260	1,3,5-Trimethylbenzene	31.0J	ug/kg	64.0	10/26/18 18:44	
EPA 8260	m&p-Xylene	56.7J	ug/kg	128	10/26/18 18:44	
EPA 8260	o-Xylene	27.8J	ug/kg	64.0	10/26/18 18:44	
ASTM D2974-87	Percent Moisture	6.3	%	0.10	10/25/18 15:49	
<b>40178274017</b>	<b>PIT D (SWN)</b>					
EPA 8260	Tetrachloroethene	1150	ug/kg	65.4	10/29/18 10:26	
ASTM D2974-87	Percent Moisture	8.3	%	0.10	10/25/18 15:49	
<b>40178274018</b>	<b>PIT D (SWE)</b>					
EPA 8260	Tetrachloroethene	2680	ug/kg	62.5	10/26/18 19:07	
ASTM D2974-87	Percent Moisture	4.0	%	0.10	10/25/18 15:49	
<b>40178274019</b>	<b>PIT D (SWS)</b>					
EPA 8260	Naphthalene	77.8J	ug/kg	289	10/29/18 10:50	
EPA 8260	Tetrachloroethene	2110	ug/kg	69.3	10/29/18 10:50	
ASTM D2974-87	Percent Moisture	13.5	%	0.10	10/25/18 15:49	
<b>40178274020</b>	<b>PIT D (SWW)</b>					
EPA 8260	Naphthalene	48.1J	ug/kg	281	10/29/18 11:13	
EPA 8260	Tetrachloroethene	1010	ug/kg	67.5	10/29/18 11:13	
ASTM D2974-87	Percent Moisture	11.2	%	0.10	10/25/18 15:49	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

---

**Method:** EPA 8260

**Description:** 8260 MSV Med Level Normal List

**Client:** AECOM, Inc. - Stevens Point

**Date:** October 29, 2018

**General Information:**

20 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

---

**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** AECOM, Inc. - Stevens Point

**Date:** October 29, 2018

**General Information:**

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT A BOTTOM**      **Lab ID: 40178274001**      Collected: 10/22/18 12:15      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 12:57	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 12:57	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 12:57	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 12:57	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 12:57	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT A BOTTOM**      **Lab ID: 40178274001**      Collected: 10/22/18 12:15      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	79-34-5	W
Tetrachloroethene	84.8	ug/kg	62.0	25.8	1	10/25/18 08:30	10/26/18 12:57	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 12:57	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 12:57	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 12:57	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	94	%	57-148		1	10/25/18 08:30	10/26/18 12:57	1868-53-7	
Toluene-d8 (S)	91	%	58-142		1	10/25/18 08:30	10/26/18 12:57	2037-26-5	
4-Bromofluorobenzene (S)	90	%	48-130		1	10/25/18 08:30	10/26/18 12:57	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	3.2	%	0.10	0.10	1		10/25/18 15:31		

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## ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT A (SWN)**      **Lab ID: 40178274002**      Collected: 10/22/18 12:35      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 13:20	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 13:20	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 13:20	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 13:20	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 13:20	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT A (SWN)**      **Lab ID: 40178274002**      Collected: 10/22/18 12:35      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 13:20	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 13:20	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:20	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	98	%	57-148		1	10/25/18 08:30	10/26/18 13:20	1868-53-7	
Toluene-d8 (S)	98	%	58-142		1	10/25/18 08:30	10/26/18 13:20	2037-26-5	
4-Bromofluorobenzene (S)	97	%	48-130		1	10/25/18 08:30	10/26/18 13:20	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>4.0</b>	%	0.10	0.10	1		10/25/18 15:31		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT A (SWE)**      **Lab ID: 40178274003**      Collected: 10/22/18 12:25      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 13:44	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 13:44	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 13:44	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 13:44	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 13:44	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT A (SWE)**      **Lab ID: 40178274003**      Collected: 10/22/18 12:25      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	79-34-5	W
Tetrachloroethene	76.2	ug/kg	62.8	26.2	1	10/25/18 08:30	10/26/18 13:44	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 13:44	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 13:44	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 13:44	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	90	%	57-148		1	10/25/18 08:30	10/26/18 13:44	1868-53-7	
Toluene-d8 (S)	93	%	58-142		1	10/25/18 08:30	10/26/18 13:44	2037-26-5	
4-Bromofluorobenzene (S)	92	%	48-130		1	10/25/18 08:30	10/26/18 13:44	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	4.5	%	0.10	0.10	1		10/25/18 15:31		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Sample: PIT A (SWS) Lab ID: 40178274004 Collected: 10/22/18 12:33 Received: 10/24/18 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 14:07	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 14:07	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 14:07	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 14:07	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 14:07	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT A (SWS)**      **Lab ID: 40178274004**      Collected: 10/22/18 12:33      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	79-34-5	W
Tetrachloroethene	1480	ug/kg	65.9	27.5	1	10/25/18 08:30	10/26/18 14:07	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 14:07	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 14:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:07	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	85	%	57-148		1	10/25/18 08:30	10/26/18 14:07	1868-53-7	
Toluene-d8 (S)	95	%	58-142		1	10/25/18 08:30	10/26/18 14:07	2037-26-5	
4-Bromofluorobenzene (S)	90	%	48-130		1	10/25/18 08:30	10/26/18 14:07	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	8.9	%	0.10	0.10	1		10/25/18 15:31		

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## ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT A (SWW)**      **Lab ID: 40178274005**      Collected: 10/22/18 12:30      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 14:30	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 14:30	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 14:30	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 14:30	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 14:30	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT A (SWW)**      **Lab ID: 40178274005**      Collected: 10/22/18 12:30      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 14:30	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 14:30	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:30	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	90	%	57-148		1	10/25/18 08:30	10/26/18 14:30	1868-53-7	
Toluene-d8 (S)	91	%	58-142		1	10/25/18 08:30	10/26/18 14:30	2037-26-5	
4-Bromofluorobenzene (S)	90	%	48-130		1	10/25/18 08:30	10/26/18 14:30	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>14.9</b>	%	0.10	0.10	1		10/25/18 15:31		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT B BOTTOM** Lab ID: **40178274006** Collected: 10/22/18 13:30 Received: 10/24/18 11:05 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 14:53	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 14:53	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 14:53	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 14:53	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 14:53	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT B BOTTOM**      **Lab ID: 40178274006**      Collected: 10/22/18 13:30      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	79-34-5	W
Tetrachloroethene	47.2J	ug/kg	62.5	26.0	1	10/25/18 08:30	10/26/18 14:53	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 14:53	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 14:53	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 14:53	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	57-148		1	10/25/18 08:30	10/26/18 14:53	1868-53-7	
Toluene-d8 (S)	100	%	58-142		1	10/25/18 08:30	10/26/18 14:53	2037-26-5	
4-Bromofluorobenzene (S)	102	%	48-130		1	10/25/18 08:30	10/26/18 14:53	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	4.0	%	0.10	0.10	1		10/25/18 15:31		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Sample: PIT B (SWN) Lab ID: 40178274007 Collected: 10/22/18 13:20 Received: 10/24/18 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 15:16	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 15:16	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 15:16	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 15:16	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 15:16	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT B (SWN)**      **Lab ID: 40178274007**      Collected: 10/22/18 13:20      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	630-20-6	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 15:16	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 15:16	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:16	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	99	%	57-148		1	10/25/18 08:30	10/26/18 15:16	1868-53-7	
Toluene-d8 (S)	97	%	58-142		1	10/25/18 08:30	10/26/18 15:16	2037-26-5	
4-Bromofluorobenzene (S)	93	%	48-130		1	10/25/18 08:30	10/26/18 15:16	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	4.6	%	0.10	0.10	1		10/25/18 15:31		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT B (SWE)**      **Lab ID: 40178274008**      Collected: 10/22/18 13:10      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 15:39	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 15:39	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 15:39	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 15:39	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 15:39	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT B (SWE)**      **Lab ID: 40178274008**      Collected: 10/22/18 13:10      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	79-34-5	W
Tetrachloroethene	39.2J	ug/kg	62.8	26.2	1	10/25/18 08:30	10/26/18 15:39	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 15:39	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 15:39	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 15:39	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	83	%	57-148		1	10/25/18 08:30	10/26/18 15:39	1868-53-7	
Toluene-d8 (S)	91	%	58-142		1	10/25/18 08:30	10/26/18 15:39	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-130		1	10/25/18 08:30	10/26/18 15:39	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	4.5	%	0.10	0.10	1		10/25/18 15:32		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Sample: PIT B (SWS) Lab ID: 40178274009 Collected: 10/22/18 13:15 Received: 10/24/18 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 16:02	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 16:02	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 16:02	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 16:02	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 16:02	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT B (SWS)**      **Lab ID: 40178274009**      Collected: 10/22/18 13:15      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 16:02	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 16:02	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:02	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	99	%	57-148		1	10/25/18 08:30	10/26/18 16:02	1868-53-7	
Toluene-d8 (S)	105	%	58-142		1	10/25/18 08:30	10/26/18 16:02	2037-26-5	
4-Bromofluorobenzene (S)	107	%	48-130		1	10/25/18 08:30	10/26/18 16:02	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	4.0	%	0.10	0.10	1		10/25/18 15:48		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT B (SWW)** Lab ID: **40178274010** Collected: 10/22/18 13:25 Received: 10/24/18 11:05 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 16:25	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 16:25	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 16:25	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 16:25	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 16:25	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT B (SWW)**      **Lab ID: 40178274010**      Collected: 10/22/18 13:25      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 16:25	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 16:25	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:25	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	99	%	57-148		1	10/25/18 08:30	10/26/18 16:25	1868-53-7	
Toluene-d8 (S)	95	%	58-142		1	10/25/18 08:30	10/26/18 16:25	2037-26-5	
4-Bromofluorobenzene (S)	96	%	48-130		1	10/25/18 08:30	10/26/18 16:25	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	3.3	%	0.10	0.10	1		10/25/18 15:48		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Sample: PIT C BOTTOM Lab ID: 40178274011 Collected: 10/22/18 13:55 Received: 10/24/18 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 16:49	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 16:49	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 16:49	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 16:49	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 16:49	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT C BOTTOM**      **Lab ID: 40178274011**      Collected: 10/22/18 13:55      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	630-20-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 16:49	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 16:49	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 16:49	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	88	%	57-148		1	10/25/18 08:30	10/26/18 16:49	1868-53-7	
Toluene-d8 (S)	97	%	58-142		1	10/25/18 08:30	10/26/18 16:49	2037-26-5	
4-Bromofluorobenzene (S)	91	%	48-130		1	10/25/18 08:30	10/26/18 16:49	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	3.6	%	0.10	0.10	1		10/25/18 15:48		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Sample: PIT C (SWN) Lab ID: 40178274012 Collected: 10/22/18 13:45 Received: 10/24/18 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 17:12	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 17:12	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 17:12	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 17:12	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 17:12	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT C (SWN)**      **Lab ID: 40178274012**      Collected: 10/22/18 13:45      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	79-34-5	W
Tetrachloroethene	199	ug/kg	62.9	26.2	1	10/25/18 08:30	10/26/18 17:12	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 17:12	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 17:12	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:12	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	57-148		1	10/25/18 08:30	10/26/18 17:12	1868-53-7	
Toluene-d8 (S)	103	%	58-142		1	10/25/18 08:30	10/26/18 17:12	2037-26-5	
4-Bromofluorobenzene (S)	108	%	48-130		1	10/25/18 08:30	10/26/18 17:12	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	4.6	%	0.10	0.10	1		10/25/18 15:49		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT C (SWE)**      **Lab ID: 40178274013**      Collected: 10/22/18 13:40      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 17:35	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 17:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 17:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 17:35	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 17:35	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT C (SWE)**      **Lab ID: 40178274013**      Collected: 10/22/18 13:40      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	79-34-5	W
Tetrachloroethene	685	ug/kg	62.2	25.9	1	10/25/18 08:30	10/26/18 17:35	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 17:35	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 17:35	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:35	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	57-148		1	10/25/18 08:30	10/26/18 17:35	1868-53-7	
Toluene-d8 (S)	108	%	58-142		1	10/25/18 08:30	10/26/18 17:35	2037-26-5	
4-Bromofluorobenzene (S)	103	%	48-130		1	10/25/18 08:30	10/26/18 17:35	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	3.6	%	0.10	0.10	1		10/25/18 15:49		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Sample: PIT C (SWS) Lab ID: 40178274014 Collected: 10/22/18 13:50 Received: 10/24/18 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 17:58	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 17:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 17:58	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 17:58	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 17:58	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT C (SWS)**      **Lab ID: 40178274014**      Collected: 10/22/18 13:50      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	79-34-5	W
Tetrachloroethene	292	ug/kg	62.2	25.9	1	10/25/18 08:30	10/26/18 17:58	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 17:58	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 17:58	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 17:58	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	97	%	57-148		1	10/25/18 08:30	10/26/18 17:58	1868-53-7	
Toluene-d8 (S)	106	%	58-142		1	10/25/18 08:30	10/26/18 17:58	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-130		1	10/25/18 08:30	10/26/18 17:58	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.6	%	0.10	0.10	1		10/25/18 15:49		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT C (SWW)**      **Lab ID: 40178274015**      Collected: 10/22/18 13:35      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 18:21	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 18:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 18:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 18:21	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 18:21	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT C (SWW)**      **Lab ID: 40178274015**      Collected: 10/22/18 13:35      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 18:21	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 18:21	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:21	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	98	%	57-148		1	10/25/18 08:30	10/26/18 18:21	1868-53-7	
Toluene-d8 (S)	107	%	58-142		1	10/25/18 08:30	10/26/18 18:21	2037-26-5	
4-Bromofluorobenzene (S)	102	%	48-130		1	10/25/18 08:30	10/26/18 18:21	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	2.3	%	0.10	0.10	1		10/25/18 15:49		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Sample: PIT D BOTTOM Lab ID: 40178274016 Collected: 10/22/18 11:30 Received: 10/24/18 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 18:44	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 18:44	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 18:44	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 18:44	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 18:44	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT D BOTTOM**      **Lab ID: 40178274016**      Collected: 10/22/18 11:30      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	630-20-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	79-34-5	W
Tetrachloroethene	2130	ug/kg	64.0	26.7	1	10/25/18 08:30	10/26/18 18:44	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 18:44	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	96-18-4	W
1,2,4-Trimethylbenzene	77.3	ug/kg	64.0	26.7	1	10/25/18 08:30	10/26/18 18:44	95-63-6	
1,3,5-Trimethylbenzene	31.0J	ug/kg	64.0	26.7	1	10/25/18 08:30	10/26/18 18:44	108-67-8	
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 18:44	75-01-4	W
m&p-Xylene	56.7J	ug/kg	128	53.4	1	10/25/18 08:30	10/26/18 18:44	179601-23-1	
o-Xylene	27.8J	ug/kg	64.0	26.7	1	10/25/18 08:30	10/26/18 18:44	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	99	%	57-148		1	10/25/18 08:30	10/26/18 18:44	1868-53-7	
Toluene-d8 (S)	104	%	58-142		1	10/25/18 08:30	10/26/18 18:44	2037-26-5	
4-Bromofluorobenzene (S)	103	%	48-130		1	10/25/18 08:30	10/26/18 18:44	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	6.3	%	0.10	0.10	1		10/25/18 15:49		

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT D (SWN)**      **Lab ID: 40178274017**      Collected: 10/22/18 11:23      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/29/18 10:26	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/29/18 10:26	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/29/18 10:26	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/29/18 10:26	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/29/18 10:26	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT D (SWN)**      **Lab ID: 40178274017**      Collected: 10/22/18 11:23      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	630-20-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	79-34-5	W
Tetrachloroethene	1150	ug/kg	65.4	27.3	1	10/25/18 08:30	10/29/18 10:26	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/29/18 10:26	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/29/18 10:26	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:26	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	96	%	57-148		1	10/25/18 08:30	10/29/18 10:26	1868-53-7	
Toluene-d8 (S)	91	%	58-142		1	10/25/18 08:30	10/29/18 10:26	2037-26-5	
4-Bromofluorobenzene (S)	93	%	48-130		1	10/25/18 08:30	10/29/18 10:26	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	8.3	%	0.10	0.10	1		10/25/18 15:49		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT D (SWE)**      **Lab ID: 40178274018**      Collected: 10/22/18 11:28      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/26/18 19:07	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/26/18 19:07	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/26/18 19:07	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/26/18 19:07	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	10/25/18 08:30	10/26/18 19:07	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT D (SWE)**      **Lab ID: 40178274018**      Collected: 10/22/18 11:28      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	79-34-5	W
Tetrachloroethene	2680	ug/kg	62.5	26.0	1	10/25/18 08:30	10/26/18 19:07	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/26/18 19:07	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/26/18 19:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/26/18 19:07	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	57-148		1	10/25/18 08:30	10/26/18 19:07	1868-53-7	
Toluene-d8 (S)	102	%	58-142		1	10/25/18 08:30	10/26/18 19:07	2037-26-5	
4-Bromofluorobenzene (S)	99	%	48-130		1	10/25/18 08:30	10/26/18 19:07	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	4.0	%	0.10	0.10	1		10/25/18 15:49		

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## ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Sample: PIT D (SWS) Lab ID: 40178274019 Collected: 10/22/18 11:25 Received: 10/24/18 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/29/18 10:50	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/29/18 10:50	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/29/18 10:50	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/29/18 10:50	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	1634-04-4	W
Naphthalene	77.8J	ug/kg	289	46.3	1	10/25/18 08:30	10/29/18 10:50	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	100-42-5	W

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT D (SWS)**      **Lab ID: 40178274019**      Collected: 10/22/18 11:25      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	79-34-5	W
Tetrachloroethene	2110	ug/kg	69.3	28.9	1	10/25/18 08:30	10/29/18 10:50	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/29/18 10:50	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/29/18 10:50	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 10:50	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	93	%	57-148		1	10/25/18 08:30	10/29/18 10:50	1868-53-7	
Toluene-d8 (S)	96	%	58-142		1	10/25/18 08:30	10/29/18 10:50	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-130		1	10/25/18 08:30	10/29/18 10:50	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.5	%	0.10	0.10	1		10/25/18 15:49		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: PIT D (SWW)**      **Lab ID: 40178274020**      Collected: 10/22/18 11:20      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	10/25/18 08:30	10/29/18 11:13	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	10/25/18 08:30	10/29/18 11:13	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	10/25/18 08:30	10/29/18 11:13	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	10/25/18 08:30	10/29/18 11:13	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	1634-04-4	W
Naphthalene	48.1J	ug/kg	281	45.1	1	10/25/18 08:30	10/29/18 11:13	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	100-42-5	W

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

**Sample: PIT D (SWW)**      **Lab ID: 40178274020**      Collected: 10/22/18 11:20      Received: 10/24/18 11:05      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	79-34-5	W
Tetrachloroethene	1010	ug/kg	67.5	28.1	1	10/25/18 08:30	10/29/18 11:13	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	10/25/18 08:30	10/29/18 11:13	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	10/25/18 08:30	10/29/18 11:13	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	10/25/18 08:30	10/29/18 11:13	95-47-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	97	%	57-148		1	10/25/18 08:30	10/29/18 11:13	1868-53-7	
Toluene-d8 (S)	100	%	58-142		1	10/25/18 08:30	10/29/18 11:13	2037-26-5	
4-Bromofluorobenzene (S)	107	%	48-130		1	10/25/18 08:30	10/29/18 11:13	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	11.2	%	0.10	0.10	1		10/25/18 15:49		

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## ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: TRIP BLANK**      **Lab ID: 40178274021**      Collected: 10/22/18 00:00      Received: 10/24/18 11:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 11:48	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:48	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 11:48	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 11:48	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 11:48	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 11:48	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:48	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 11:48	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 11:48	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:48	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:48	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 11:48	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 11:48	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 11:48	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 11:48	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 11:48	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 11:48	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 11:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 11:48	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 11:48	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:48	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 11:48	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 11:48	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 11:48	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:48	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:48	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:48	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 11:48	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 11:48	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:48	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 11:48	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 11:48	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 11:48	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 11:48	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 11:48	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 11:48	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 11:48	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:48	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 11:48	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 11:48	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 11:48	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 11:48	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:48	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 11:48	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 11:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:48	630-20-6	

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### ANALYTICAL RESULTS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

**Sample: TRIP BLANK**      **Lab ID: 40178274021**      Collected: 10/22/18 00:00      Received: 10/24/18 11:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:48	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 11:48	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 11:48	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 11:48	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 11:48	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 11:48	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 11:48	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:48	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 11:48	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 11:48	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 11:48	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 11:48	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:48	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 11:48	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/25/18 11:48	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		10/25/18 11:48	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/25/18 11:48	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

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QC Batch: 304319 Analysis Method: EPA 8260  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List  
 Associated Lab Samples: 40178274001, 40178274002, 40178274003, 40178274004, 40178274005, 40178274006, 40178274007,  
 40178274008, 40178274009, 40178274010, 40178274011, 40178274012, 40178274013, 40178274014,  
 40178274015, 40178274016, 40178274017, 40178274018, 40178274019, 40178274020

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METHOD BLANK: 1777786 Matrix: Solid  
 Associated Lab Samples: 40178274001, 40178274002, 40178274003, 40178274004, 40178274005, 40178274006, 40178274007,  
 40178274008, 40178274009, 40178274010, 40178274011, 40178274012, 40178274013, 40178274014,  
 40178274015, 40178274016, 40178274017, 40178274018, 40178274019, 40178274020

Parameter	Units	Blank Reporting		Analyzed	Qualifiers
		Result	Limit		
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	10/26/18 09:06	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	10/26/18 09:06	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	10/26/18 09:06	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	10/26/18 09:06	
1,1-Dichloroethane	ug/kg	<17.6	50.0	10/26/18 09:06	
1,1-Dichloroethene	ug/kg	<17.6	50.0	10/26/18 09:06	
1,1-Dichloropropene	ug/kg	<14.0	50.0	10/26/18 09:06	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	10/26/18 09:06	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	10/26/18 09:06	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	10/26/18 09:06	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/26/18 09:06	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	10/26/18 09:06	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	10/26/18 09:06	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	10/26/18 09:06	
1,2-Dichloroethane	ug/kg	<15.0	50.0	10/26/18 09:06	
1,2-Dichloropropane	ug/kg	<16.8	50.0	10/26/18 09:06	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/26/18 09:06	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	10/26/18 09:06	
1,3-Dichloropropane	ug/kg	<12.0	50.0	10/26/18 09:06	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	10/26/18 09:06	
2,2-Dichloropropane	ug/kg	<12.6	50.0	10/26/18 09:06	
2-Chlorotoluene	ug/kg	<15.8	50.0	10/26/18 09:06	
4-Chlorotoluene	ug/kg	<13.0	50.0	10/26/18 09:06	
Benzene	ug/kg	<9.2	20.0	10/26/18 09:06	
Bromobenzene	ug/kg	<20.6	50.0	10/26/18 09:06	
Bromochloromethane	ug/kg	<21.4	50.0	10/26/18 09:06	
Bromodichloromethane	ug/kg	<9.8	50.0	10/26/18 09:06	
Bromoform	ug/kg	<19.8	50.0	10/26/18 09:06	
Bromomethane	ug/kg	<69.9	250	10/26/18 09:06	
Carbon tetrachloride	ug/kg	<12.1	50.0	10/26/18 09:06	
Chlorobenzene	ug/kg	<14.8	50.0	10/26/18 09:06	
Chloroethane	ug/kg	<67.0	250	10/26/18 09:06	
Chloroform	ug/kg	<46.4	250	10/26/18 09:06	
Chloromethane	ug/kg	<20.4	50.0	10/26/18 09:06	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	10/26/18 09:06	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	10/26/18 09:06	
Dibromochloromethane	ug/kg	<17.9	50.0	10/26/18 09:06	
Dibromomethane	ug/kg	<19.3	50.0	10/26/18 09:06	

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### QUALITY CONTROL DATA

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

METHOD BLANK: 1777786

Matrix: Solid

Associated Lab Samples: 40178274001, 40178274002, 40178274003, 40178274004, 40178274005, 40178274006, 40178274007, 40178274008, 40178274009, 40178274010, 40178274011, 40178274012, 40178274013, 40178274014, 40178274015, 40178274016, 40178274017, 40178274018, 40178274019, 40178274020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/kg	<12.3	50.0	10/26/18 09:06	
Diisopropyl ether	ug/kg	<17.7	50.0	10/26/18 09:06	
Ethylbenzene	ug/kg	<12.4	50.0	10/26/18 09:06	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	10/26/18 09:06	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	10/26/18 09:06	
m&p-Xylene	ug/kg	<34.4	100	10/26/18 09:06	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/26/18 09:06	
Methylene Chloride	ug/kg	22.2J	50.0	10/26/18 09:06	
n-Butylbenzene	ug/kg	<10.5	50.0	10/26/18 09:06	
n-Propylbenzene	ug/kg	<11.6	50.0	10/26/18 09:06	
Naphthalene	ug/kg	<40.0	250	10/26/18 09:06	
o-Xylene	ug/kg	<14.0	50.0	10/26/18 09:06	
p-Isopropyltoluene	ug/kg	<12.0	50.0	10/26/18 09:06	
sec-Butylbenzene	ug/kg	<11.9	50.0	10/26/18 09:06	
Styrene	ug/kg	<9.0	50.0	10/26/18 09:06	
tert-Butylbenzene	ug/kg	<9.5	50.0	10/26/18 09:06	
Tetrachloroethene	ug/kg	<12.9	50.0	10/26/18 09:06	
Toluene	ug/kg	<11.2	50.0	10/26/18 09:06	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	10/26/18 09:06	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	10/26/18 09:06	
Trichloroethene	ug/kg	<23.6	50.0	10/26/18 09:06	
Trichlorofluoromethane	ug/kg	<24.7	50.0	10/26/18 09:06	
Vinyl chloride	ug/kg	<21.1	50.0	10/26/18 09:06	
4-Bromofluorobenzene (S)	%	99	48-130	10/26/18 09:06	
Dibromofluoromethane (S)	%	95	57-148	10/26/18 09:06	
Toluene-d8 (S)	%	95	58-142	10/26/18 09:06	

LABORATORY CONTROL SAMPLE: 1777787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2640	106	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2500	100	68-130	
1,1,2-Trichloroethane	ug/kg	2500	2450	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2590	104	67-132	
1,1-Dichloroethene	ug/kg	2500	2320	93	67-128	
1,2,4-Trichlorobenzene	ug/kg	2500	2130	85	51-131	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2380	95	49-117	
1,2-Dibromoethane (EDB)	ug/kg	2500	2250	90	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2180	87	70-130	
1,2-Dichloroethane	ug/kg	2500	2680	107	65-137	
1,2-Dichloropropane	ug/kg	2500	2480	99	75-126	
1,3-Dichlorobenzene	ug/kg	2500	2300	92	70-130	

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### QUALITY CONTROL DATA

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

LABORATORY CONTROL SAMPLE: 1777787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/kg	2500	2160	86	70-130	
Benzene	ug/kg	2500	2670	107	70-130	
Bromodichloromethane	ug/kg	2500	2560	102	70-130	
Bromoform	ug/kg	2500	1770	71	57-117	
Bromomethane	ug/kg	2500	2490	100	48-135	
Carbon tetrachloride	ug/kg	2500	2480	99	65-133	
Chlorobenzene	ug/kg	2500	2340	94	70-130	
Chloroethane	ug/kg	2500	2230	89	37-165	
Chloroform	ug/kg	2500	2740	110	72-126	
Chloromethane	ug/kg	2500	1670	67	34-120	
cis-1,2-Dichloroethene	ug/kg	2500	2190	88	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2360	94	69-130	
Dibromochloromethane	ug/kg	2500	2220	89	68-130	
Dichlorodifluoromethane	ug/kg	2500	1530	61	22-100	
Ethylbenzene	ug/kg	2500	2500	100	79-121	
Isopropylbenzene (Cumene)	ug/kg	2500	2350	94	70-130	
m&p-Xylene	ug/kg	5000	4710	94	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2560	102	66-129	
Methylene Chloride	ug/kg	2500	2310	92	68-129	
o-Xylene	ug/kg	2500	2300	92	70-130	
Styrene	ug/kg	2500	2520	101	70-130	
Tetrachloroethene	ug/kg	2500	2350	94	70-130	
Toluene	ug/kg	2500	2410	96	80-123	
trans-1,2-Dichloroethene	ug/kg	2500	2270	91	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2410	96	67-130	
Trichloroethene	ug/kg	2500	2600	104	70-130	
Trichlorofluoromethane	ug/kg	2500	2930	117	64-134	
Vinyl chloride	ug/kg	2500	2060	83	52-122	
4-Bromofluorobenzene (S)	%			106	48-130	
Dibromofluoromethane (S)	%			103	57-148	
Toluene-d8 (S)	%			102	58-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777788 1777789

Parameter	Units	40178274004 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/kg	<25.0	1370	1370	1460	1530	107	112	62-130	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1370	1370	1460	1560	106	113	64-137	6	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1370	1370	1510	1530	110	111	70-130	2	20	
1,1-Dichloroethane	ug/kg	<25.0	1370	1370	1450	1540	105	112	65-132	6	20	
1,1-Dichloroethene	ug/kg	<25.0	1370	1370	1230	1340	90	97	50-128	8	21	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1370	1370	1270	1400	93	102	51-148	9	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1370	1370	1470	1600	107	117	43-134	9	23	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1370	1370	1230	1340	90	98	70-130	9	20	

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**QUALITY CONTROL DATA**

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777788 1777789												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		40178274004	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,2-Dichlorobenzene	ug/kg	<25.0	1370	1370	1350	1430	98	104	70-130	6	20	
1,2-Dichloroethane	ug/kg	<25.0	1370	1370	1590	1570	116	115	65-139	1	20	
1,2-Dichloropropane	ug/kg	<25.0	1370	1370	1360	1470	99	107	74-128	8	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1370	1370	1380	1410	101	103	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1370	1370	1360	1450	99	106	70-130	6	20	
Benzene	ug/kg	<25.0	1370	1370	1540	1560	112	114	66-132	2	20	
Bromodichloromethane	ug/kg	<25.0	1370	1370	1460	1480	107	108	69-130	1	20	
Bromoform	ug/kg	<25.0	1370	1370	1080	1100	79	80	57-130	1	20	
Bromomethane	ug/kg	<69.9	1370	1370	1170	1370	85	100	34-145	16	20	
Carbon tetrachloride	ug/kg	<25.0	1370	1370	1330	1430	97	105	54-133	8	20	
Chlorobenzene	ug/kg	<25.0	1370	1370	1300	1380	95	101	70-130	6	20	
Chloroethane	ug/kg	<67.0	1370	1370	1270	1220	93	89	33-165	4	20	
Chloroform	ug/kg	<46.4	1370	1370	1480	1560	108	113	72-128	5	20	
Chloromethane	ug/kg	<25.0	1370	1370	921	912	67	66	20-120	1	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1370	1370	1260	1270	91	92	69-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1370	1370	1230	1320	90	96	65-130	7	20	
Dibromochloromethane	ug/kg	<25.0	1370	1370	1200	1310	87	96	65-130	9	20	
Dichlorodifluoromethane	ug/kg	<25.0	1370	1370	854	902	62	66	10-109	5	29	
Ethylbenzene	ug/kg	<25.0	1370	1370	1380	1470	101	107	63-127	7	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1370	1370	1340	1450	98	106	66-130	8	20	
m&p-Xylene	ug/kg	<50.0	2750	2750	2740	2780	100	101	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1370	1370	1440	1520	105	111	62-135	6	20	
Methylene Chloride	ug/kg	<25.0	1370	1370	1320	1350	96	98	68-129	2	20	
o-Xylene	ug/kg	<25.0	1370	1370	1320	1300	96	95	69-130	1	20	
Styrene	ug/kg	<25.0	1370	1370	1390	1410	101	102	70-130	1	20	
Tetrachloroethene	ug/kg	1480	1370	1370	2760	2950	94	108	70-130	7	20	
Toluene	ug/kg	<25.0	1370	1370	1360	1430	99	104	80-123	5	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1370	1370	1300	1290	95	94	70-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1370	1370	1330	1310	97	95	67-130	1	20	
Trichloroethene	ug/kg	<25.0	1370	1370	1510	1570	110	115	70-130	4	20	
Trichlorofluoromethane	ug/kg	<25.0	1370	1370	1440	1710	105	125	41-134	17	26	
Vinyl chloride	ug/kg	<25.0	1370	1370	1100	1170	80	85	39-122	6	20	
4-Bromofluorobenzene (S)	%						92	92	48-130			
Dibromofluoromethane (S)	%						94	94	57-148			
Toluene-d8 (S)	%						91	90	58-142			

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### QUALITY CONTROL DATA

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

QC Batch:	304249	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40178274021		

METHOD BLANK: 1777532 Matrix: Water

Associated Lab Samples: 40178274021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/25/18 08:04	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/25/18 08:04	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/25/18 08:04	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/25/18 08:04	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/25/18 08:04	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/25/18 08:04	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/25/18 08:04	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/25/18 08:04	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/25/18 08:04	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/25/18 08:04	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/25/18 08:04	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/25/18 08:04	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/25/18 08:04	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/25/18 08:04	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/25/18 08:04	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/25/18 08:04	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/25/18 08:04	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/25/18 08:04	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/25/18 08:04	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/25/18 08:04	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/25/18 08:04	
2-Chlorotoluene	ug/L	<0.93	5.0	10/25/18 08:04	
4-Chlorotoluene	ug/L	<0.76	2.5	10/25/18 08:04	
Benzene	ug/L	<0.25	1.0	10/25/18 08:04	
Bromobenzene	ug/L	<0.24	1.0	10/25/18 08:04	
Bromochloromethane	ug/L	<0.36	5.0	10/25/18 08:04	
Bromodichloromethane	ug/L	<0.36	1.2	10/25/18 08:04	
Bromoform	ug/L	<4.0	13.2	10/25/18 08:04	
Bromomethane	ug/L	<0.97	5.0	10/25/18 08:04	
Carbon tetrachloride	ug/L	<0.17	1.0	10/25/18 08:04	
Chlorobenzene	ug/L	<0.71	2.4	10/25/18 08:04	
Chloroethane	ug/L	<1.3	5.0	10/25/18 08:04	
Chloroform	ug/L	<1.3	5.0	10/25/18 08:04	
Chloromethane	ug/L	<2.2	7.3	10/25/18 08:04	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/25/18 08:04	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/25/18 08:04	
Dibromochloromethane	ug/L	<2.6	8.7	10/25/18 08:04	
Dibromomethane	ug/L	<0.94	3.1	10/25/18 08:04	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/25/18 08:04	
Diisopropyl ether	ug/L	<1.9	6.3	10/25/18 08:04	
Ethylbenzene	ug/L	<0.22	1.0	10/25/18 08:04	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60299959 FMR KRAFT CLEANERS  
Pace Project No.: 40178274

METHOD BLANK: 1777532 Matrix: Water  
Associated Lab Samples: 40178274021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/25/18 08:04	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/25/18 08:04	
m&p-Xylene	ug/L	<0.47	2.0	10/25/18 08:04	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/25/18 08:04	
Methylene Chloride	ug/L	<0.58	5.0	10/25/18 08:04	
n-Butylbenzene	ug/L	<0.71	2.4	10/25/18 08:04	
n-Propylbenzene	ug/L	<0.81	5.0	10/25/18 08:04	
Naphthalene	ug/L	<1.2	5.0	10/25/18 08:04	
o-Xylene	ug/L	<0.26	1.0	10/25/18 08:04	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/25/18 08:04	
sec-Butylbenzene	ug/L	<0.85	5.0	10/25/18 08:04	
Styrene	ug/L	<0.47	1.6	10/25/18 08:04	
tert-Butylbenzene	ug/L	<0.30	1.0	10/25/18 08:04	
Tetrachloroethene	ug/L	<0.33	1.1	10/25/18 08:04	
Toluene	ug/L	<0.17	5.0	10/25/18 08:04	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/25/18 08:04	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/25/18 08:04	
Trichloroethene	ug/L	<0.26	1.0	10/25/18 08:04	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/25/18 08:04	
Vinyl chloride	ug/L	<0.17	1.0	10/25/18 08:04	
4-Bromofluorobenzene (S)	%	97	70-130	10/25/18 08:04	
Dibromofluoromethane (S)	%	94	70-130	10/25/18 08:04	
Toluene-d8 (S)	%	106	70-130	10/25/18 08:04	

LABORATORY CONTROL SAMPLE: 1777533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.1	96	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	49.0	98	67-130	
1,1,2-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1-Dichloroethane	ug/L	50	45.0	90	70-134	
1,1-Dichloroethene	ug/L	50	42.2	84	75-132	
1,2,4-Trichlorobenzene	ug/L	50	50.7	101	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	95	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	70-130	
1,2-Dichlorobenzene	ug/L	50	45.6	91	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	73-134	
1,2-Dichloropropane	ug/L	50	50.3	101	79-128	
1,3-Dichlorobenzene	ug/L	50	44.9	90	70-130	
1,4-Dichlorobenzene	ug/L	50	46.0	92	70-130	
Benzene	ug/L	50	46.9	94	69-137	
Bromodichloromethane	ug/L	50	54.9	110	70-130	
Bromoform	ug/L	50	57.5	115	64-133	
Bromomethane	ug/L	50	28.0	56	29-123	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

LABORATORY CONTROL SAMPLE: 1777533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	48.1	96	73-142	
Chlorobenzene	ug/L	50	49.6	99	70-130	
Chloroethane	ug/L	50	34.7	69	59-133	
Chloroform	ug/L	50	44.2	88	80-129	
Chloromethane	ug/L	50	25.1	50	27-125	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	70-134	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	70-130	
Dibromochloromethane	ug/L	50	50.5	101	70-130	
Dichlorodifluoromethane	ug/L	50	22.3	45	12-127	
Ethylbenzene	ug/L	50	55.1	110	86-127	
Isopropylbenzene (Cumene)	ug/L	50	57.0	114	70-130	
m&p-Xylene	ug/L	100	111	111	70-131	
Methyl-tert-butyl ether	ug/L	50	42.3	85	65-136	
Methylene Chloride	ug/L	50	41.5	83	72-133	
o-Xylene	ug/L	50	55.4	111	70-130	
Styrene	ug/L	50	56.7	113	70-130	
Tetrachloroethene	ug/L	50	54.6	109	70-130	
Toluene	ug/L	50	52.7	105	84-124	
trans-1,2-Dichloroethene	ug/L	50	43.4	87	70-133	
trans-1,3-Dichloropropene	ug/L	50	48.7	97	67-130	
Trichloroethene	ug/L	50	53.6	107	70-130	
Trichlorofluoromethane	ug/L	50	44.1	88	69-147	
Vinyl chloride	ug/L	50	32.1	64	48-134	
4-Bromofluorobenzene (S)	%			115	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777614 1777615

Parameter	Units	40178247001		MSD		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.4	51.8	103	104	70-136	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	53.8	52.3	108	105	67-133	3	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	55.7	55.2	111	110	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	48.3	48.9	97	98	70-139	1	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	46.5	47.7	93	95	72-137	2	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	55.7	55.0	111	110	68-130	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	52.1	50.3	104	101	60-130	4	21		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	55.2	53.7	110	107	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	48.8	48.2	98	96	70-130	1	20		
1,2-Dichloroethane	ug/L	2.7	50	50	52.3	52.3	99	99	71-137	0	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	53.8	53.7	108	107	78-130	0	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	48.2	47.3	96	95	70-130	2	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	48.8	48.5	98	97	70-130	1	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Parameter	Units	40178247001		1777614		1777615		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	ug/L	<0.25	50	50	50.1	50.2	100	100	66-143	0	20		
Bromodichloromethane	ug/L	<0.36	50	50	57.3	56.4	115	113	70-130	2	20		
Bromoform	ug/L	<4.0	50	50	62.4	62.1	125	124	64-134	0	20		
Bromomethane	ug/L	<0.97	50	50	36.5	38.6	73	77	29-136	5	25		
Carbon tetrachloride	ug/L	<0.17	50	50	51.3	51.2	103	102	73-142	0	20		
Chlorobenzene	ug/L	<0.71	50	50	53.4	52.2	107	104	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	40.7	42.1	81	84	58-138	3	20		
Chloroform	ug/L	<1.3	50	50	46.3	47.0	93	94	80-131	1	20		
Chloromethane	ug/L	<2.2	50	50	33.0	33.4	66	67	24-125	1	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	47.6	48.2	95	96	68-137	1	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	56.0	55.3	112	111	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	53.8	52.7	108	105	70-131	2	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	35.9	36.1	72	72	10-127	1	20		
Ethylbenzene	ug/L	<0.22	50	50	58.3	57.7	117	115	81-136	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	60.0	59.6	120	119	70-132	1	20		
m&p-Xylene	ug/L	<0.47	100	100	117	117	117	117	70-135	0	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	46.1	45.9	92	92	58-142	0	23		
Methylene Chloride	ug/L	<0.58	50	50	44.8	46.5	90	93	69-137	4	20		
o-Xylene	ug/L	<0.26	50	50	59.1	59.0	118	118	70-132	0	20		
Styrene	ug/L	<0.47	50	50	60.4	59.7	121	119	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	58.5	57.3	117	115	70-132	2	20		
Toluene	ug/L	<0.17	50	50	55.5	55.3	111	111	81-130	0	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	47.8	48.1	96	96	70-136	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	52.4	51.9	105	104	67-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	56.7	56.5	113	113	70-131	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	49.0	49.2	98	98	66-150	0	20		
Vinyl chloride	ug/L	<0.17	50	50	40.5	41.4	81	83	46-134	2	20		
4-Bromofluorobenzene (S)	%						112	114	70-130				
Dibromofluoromethane (S)	%						92	94	70-130				
Toluene-d8 (S)	%						107	107	70-130				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

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QC Batch:	304365	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40178274001, 40178274002, 40178274003, 40178274004, 40178274005, 40178274006, 40178274007, 40178274008		

---

SAMPLE DUPLICATE: 1778049

Parameter	Units	40178274006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.0	4.0	1	10	

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## QUALIFIERS

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

W Non-detect results are reported on a wet weight basis.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60299959 FMR KRAFT CLEANERS

Pace Project No.: 40178274

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178274001	PIT A BOTTOM	EPA 5035/5030B	304319	EPA 8260	304320
40178274002	PIT A (SWN)	EPA 5035/5030B	304319	EPA 8260	304320
40178274003	PIT A (SWE)	EPA 5035/5030B	304319	EPA 8260	304320
40178274004	PIT A (SWS)	EPA 5035/5030B	304319	EPA 8260	304320
40178274005	PIT A (SWW)	EPA 5035/5030B	304319	EPA 8260	304320
40178274006	PIT B BOTTOM	EPA 5035/5030B	304319	EPA 8260	304320
40178274007	PIT B (SWN)	EPA 5035/5030B	304319	EPA 8260	304320
40178274008	PIT B (SWE)	EPA 5035/5030B	304319	EPA 8260	304320
40178274009	PIT B (SWS)	EPA 5035/5030B	304319	EPA 8260	304320
40178274010	PIT B (SWW)	EPA 5035/5030B	304319	EPA 8260	304320
40178274011	PIT C BOTTOM	EPA 5035/5030B	304319	EPA 8260	304320
40178274012	PIT C (SWN)	EPA 5035/5030B	304319	EPA 8260	304320
40178274013	PIT C (SWE)	EPA 5035/5030B	304319	EPA 8260	304320
40178274014	PIT C (SWS)	EPA 5035/5030B	304319	EPA 8260	304320
40178274015	PIT C (SWW)	EPA 5035/5030B	304319	EPA 8260	304320
40178274016	PIT D BOTTOM	EPA 5035/5030B	304319	EPA 8260	304320
40178274017	PIT D (SWN)	EPA 5035/5030B	304319	EPA 8260	304320
40178274018	PIT D (SWE)	EPA 5035/5030B	304319	EPA 8260	304320
40178274019	PIT D (SWS)	EPA 5035/5030B	304319	EPA 8260	304320
40178274020	PIT D (SWW)	EPA 5035/5030B	304319	EPA 8260	304320
40178274021	TRIP BLANK	EPA 8260	304249		
40178274001	PIT A BOTTOM	ASTM D2974-87	304365		
40178274002	PIT A (SWN)	ASTM D2974-87	304365		
40178274003	PIT A (SWE)	ASTM D2974-87	304365		
40178274004	PIT A (SWS)	ASTM D2974-87	304365		
40178274005	PIT A (SWW)	ASTM D2974-87	304365		
40178274006	PIT B BOTTOM	ASTM D2974-87	304365		
40178274007	PIT B (SWN)	ASTM D2974-87	304365		
40178274008	PIT B (SWE)	ASTM D2974-87	304365		
40178274009	PIT B (SWS)	ASTM D2974-87	304388		
40178274010	PIT B (SWW)	ASTM D2974-87	304388		
40178274011	PIT C BOTTOM	ASTM D2974-87	304388		
40178274012	PIT C (SWN)	ASTM D2974-87	304388		
40178274013	PIT C (SWE)	ASTM D2974-87	304388		
40178274014	PIT C (SWS)	ASTM D2974-87	304388		
40178274015	PIT C (SWW)	ASTM D2974-87	304388		
40178274016	PIT D BOTTOM	ASTM D2974-87	304388		
40178274017	PIT D (SWN)	ASTM D2974-87	304388		
40178274018	PIT D (SWE)	ASTM D2974-87	304388		
40178274019	PIT D (SWS)	ASTM D2974-87	304388		
40178274020	PIT D (SWW)	ASTM D2974-87	304388		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **AECOM**  
 Branch/Location: **STEVENS POINT**  
 Project Contact: **KYLE WAGONER**  
 Phone: **715-342-3038**  
 Project Number: **60299959**  
 Project Name: **FMR KRAFT CLEANERS**  
 Project State: **WI**  
 Sampled By (Print): **Marcus Hopkins**  
 Sampled By (Sign): *[Signature]*  
 PO #:



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

40178274

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

Y/N	Pick Letter	Matrix	Analysis Requested	COLLECTION			
				DATE	TIME	MATRIX	
M	B		VOCs	10/22	1215	S	X
					1235	S	X
					1225	S	X
					1223	S	X
					1230	S	X
					1330	S	X
					1320	S	X
					1310	S	X
					1315	S	X
					1325	S	X
					1355	S	X
					1345	S	X
					1340	S	X

**Quote #:**

**Mail To Contact:** **KYLE WAGONER**

**Mail To Company:** **AECOM**

**Mail To Address:**

**Invoice To Contact:**

**Invoice To Company:**

**Invoice To Address:**

**Invoice To Phone:**

**CLIENT COMMENTS**

**LAB COMMENTS (Lab Use Only)**

**Profile #**

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	Pit A Bottom	10/22	1215	S
002	Pit A (SWN)		1235	S
003	Pit A (SWE)		1225	S
004	Pit A (SWS)		1223	S
005	Pit A (SLW)		1230	S
006	Pit B Bottom		1330	S
007	Pit B (SWN)		1320	S
008	Pit B (SWE)		1310	S
009	Pit B (SWS)		1315	S
010	Pit B (SLW)		1325	S
011	Pit C Bottom		1355	S
012	Pit C (SWN)		1345	S
013	Pit C (SWE)		1340	S

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *[Signature]* Date/Time: 10/23/18 1700  
 Relinquished By: *[Signature]* Date/Time: 10/24/18 1105  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: *[Signature]* Date/Time: 10/24/18 1105  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

PACE Project No. 40178274  
 Receipt Temp = **ROE** °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: **AECOM**  
 Branch/Location: **STEVENS POINT**  
 Project Contact: **KYLE WAGNER**  
 Phone: **715-342-3038**  
 Project Number: **60299959**  
 Project Name: **RMR KRAFT CLEANERS**  
 Project State: **WI**  
 Sampled By (Print): **Marcus Hopkins**  
 Sampled By (Sign): *[Signature]*  
 PO #:



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

40178274

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### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

Y/N	M																						
Pick Letter	B																						
Analyses Requested	VOCs																						

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 W = Water  
 DW = Drinking Water  
 GW = Ground Water  
 SW = Surface Water  
 WW = Waste Water  
 WP = Wipe  
 A = Air  
 B = Biota  
 C = Charcoal  
 O = Oil  
 S = Soil  
 Sl = Sludge

FACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	Pit C (SWS)	1	1350	S
015	Pit C (SWW)	1	1335	S
016	Pit D Bottom	1	1130	S
017	Pit D (SWM)	1	1123	S
018	Pit D (SWE)	1	1126	S
019	Pit D (SWS)	1	1125	S
020	Pit D (SWW)	1	1120	S
021	Trip Blank	1	-	W

Quote #: **40178274**

Mail To Contact: **KYLE WAGNER**

Mail To Company: **AECOM**

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed:

Relinquished By: *[Signature]* Date/Time: **6/22/18 1700**

Received By: *[Signature]* Date/Time: **6/24/18 1105**

Transmit Prelim Rush Results by (complete what you want): **UPS**

Relinquished By: *[Signature]* Date/Time: **6/24/18 1105**

Received By: *[Signature]* Date/Time: **6/24/18 1105**

PACE Project No. **40178274**

Receipt Temp = **R/I** °C


Sample Receipt pH **OK / Adjusted**

Cooler Custody Seal **Present / Not Present**

Intact / Not Intact





 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 25Apr2018
	Document No.: <b>F-GB-C-031-Rev.07</b>	Issuing Authority: Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Client Name: Aecom Project #: **WO# : 40178274**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: 1Z A47 8E9 01 9250 0927

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - *NA* Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: *2.0* Corr: \_\_\_\_\_

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 10/24/18  
 Initials: *[Signature]*

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u><i>[Signature]</i></u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u><i>[Signature]</i></u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u><i>S, W</i></u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u><i>407</i></u>		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

Project Manager Review: *[Signature]* Date: 10/24/18

# Soil Disposal Documentation





**LINCOLN COUNTY LANDFILL 715-536-9636**

Site: N4750 Landfill Lane, Merrill, WI 54452

Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452

**OPERATING HOURS:**

Monday-Friday

SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm

WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm

1st and 3rd Sat. 8:00 am - Noon

DATE: 10/22/2018

TICKET #: 254646

Vehicle #: SGS216

Time In: 11:50 AM

Time Out: 12:01 PM

BILL TO: SGS Environmental Contracting, LLC

HAULER: SGS Environmental Contracting, LLC

JOB : 18 - 4 G - Former Kraft Cleaners, Wausau

PO# :

\$26 ton not exempt (Con44) 24.86 tn

Gross: 78940

Tare: 29220

Net Weight: 49720

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature \_\_\_\_\_

Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

**LINCOLN COUNTY LANDFILL 715-536-9636**

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Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452

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SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm

WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm

1st and 3rd Sat. 8:00 am - Noon

DATE: 10/22/2018

TICKET #: 254659

Vehicle #: SGS207

Time In: 12:44 PM

Time Out: 12:51 PM

BILL TO: SGS Environmental Contracting, LLC

HAULER : SGS Environmental Contracting, LLC

JOB : 18 - 4 G - Former Kraft Cleaners, Wausau

PO# :

\$26 ton not exempt (Con44) 21.58 tn

Gross: 72880

Tare: 29720

Net Weight: 43160

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature \_\_\_\_\_

Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

**LINCOLN COUNTY LANDFILL 715-536-9636**  
Site: N4750 Landfill Lane, Merrill, WI 54452  
Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452

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WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm

1st and 3rd Sat. 8:00 am - Noon

DATE: 10/22/2018  
Time In: 01:35 PM

TICKET #: 254670  
Time Out: 01:40 PM

Vehicle #: SGS216

BILL TO: SGS Environmental Contracting, LLC  
HAULER : SGS Environmental Contracting, LLC

JOB : 18 - 4 G - Former Kraft Cleaners, Wausau

PO# :

\$26 ton not exempt (Con44) 22.10 tn

Gross: 73360

Tare: 29160

Net Weight: 44200

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature \_\_\_\_\_

Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

**LINCOLN COUNTY LANDFILL 715-536-9636**

Site: N4750 Landfill Lane, Merrill, WI 54452

Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452

**OPERATING HOURS:**

Monday-Friday

SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm

WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm

1st and 3rd Sat. 8:00 am - Noon

DATE: 10/22/2018

TICKET #: 254677

Vehicle #: SGS207

Time In: 02:14 PM

Time Out: 02:20 PM

BILL TO: SGS Envirnomental Contracting, LLC

HAULER : SGS Envirnomental Contracting, LLC

JOB : 18 - 4 G - Former Kraft Cleaners, Wausau

PO# :

\$26 ton not exempt (Con44) 15.07 tn

Gross: 59760

Tare: 29620

Net Weight: 30140

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature \_\_\_\_\_

Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

## **About AECOM**

AECOM is built to deliver a better world. We design, build, finance and operate infrastructure assets for governments, businesses and organizations in more than 150 countries. As a fully integrated firm, we connect knowledge and experience across our global network of experts to help clients solve their most complex challenges. From high-performance buildings and infrastructure, to resilient communities and environments, to stable and secure nations, our work is transformative, differentiated and vital. A Fortune 500 firm, AECOM companies have annual revenue of approximately US\$18 billion. See how we deliver what others can only imagine at [aecom.com](http://aecom.com) and [@AECOM](https://www.instagram.com/AECOM).

## **Contact**

Kyle Wagoner

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T 715.342.3038