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June 29, 2022

Mr. Bradley S. Nave
Principal Project Manager
The Chemours Company, FC, LLC
c/o AECOM
500 West Jefferson Street
Suite 1600
Louisville, KY 40202

**Re: 2021 Site Investigation Summary
Former DuPont Barksdale Works Site
FID No.: 804009140
BRRTS No. 02-04-000156**

Dear Mr. Nave:

This letter provides a summary of site investigation work conducted in 2021 at the Former E.I. du Pont de Nemours and Company (DuPont) Barksdale Works site (Figures 1 and 2), excluding Use Area PAJ. Site investigation work in Use Area PAJ will be documented in a separate report that will convey the current condition of the use area to support a no further action request based on the work completed in 2021. The information in this summary report is provided for your communication to the Wisconsin Department of Natural Resources (WDNR) so that The Chemours Company, FC, LLC (Chemours) may fulfill the WDNR's verbal request for annual summary reports detailing field work conducted at the site.

Site characterization efforts conducted during the 2021 field season (June through November 2021) included:

- Delineation of subsurface residual solid product (RSP) and process-related residuals.
- Groundwater sampling.
- Surface water and sediment sampling.
- Debris screening.
- RSP removal.

A portion of soil removed as part of the investigative efforts was incorporated into the pilot-scale bio-remediation evaluation to further understand the mechanisms for biodegradation and pH-controlled reduction of site-related constituents. This work and associated waste management tasks were reported in Waste Management Progress Report No. 10, dated May 31, 2022, which has already been transmitted to the WDNR.

The 2021 investigation areas, excluding areas in Use Area PAJ, are indicated on Figures 3 and 4. The overall scope of work related to each of these efforts is summarized in the following paragraphs.

1.0 DELINEATION OF RESIDUAL SOLID PRODUCT AND PROCESS RESIDUALS IN THE SUBSURFACE

Because residual solid product (RSP) is known to be potentially present at former production buildings and ditches, shielded excavation equipment is used to open excavations and the exposed areas are screened with amplifying fluorescent polymer field screening (FIDO®) combined with qualitative confirmation by colorimetric identification spray (Expray®) to identify

the presence of nitroaromatic and nitramine organic compounds (NNOCs). Confirmation soil samples are collected and submitted to an independent analytical laboratory for analysis following field screening.

When conducting delineation excavations, field crews screen the soil through visual inspection and the use of FIDO® and Expray® along the proposed excavation surface. Once the field screening results are evaluated, a shielded excavator is used to remove a thin layer of soil (1- to 6-inches deep) from the work area and screening/hand investigation is repeated on the newly exposed surface. This process continues until undisturbed native soil is encountered. If the excavation depth exceeds 3.5 feet (ft.), soils are typically first brought to the surface by the excavator and then screened or the area is benched appropriately to allow access by field staff.

Investigation work as described above was conducted in Use Area PAH in 2021 at the following locations (Figure 3):

- PAH Drainages (PAHD0047, PAHD0057, PAHD0074, PAHD0076, PAHD0145, PAHD0146 and PAHD0160)

Soil within the former drainages was excavated over an area encompassing approximately 7,500 ft² as shown on Figure 3. The excavation depth ranged from one to five feet below ground surface (bgs), which resulted in approximately 600 cubic yards (yd³) of soil being removed for evaluation. Of that total, approximately 126 (yd³) of soil from Use Areas PAH that was estimated to contain generally between 1.5% to 5% RSP, as determined by visual inspection and field screening (FIDO® and Expray®), was placed into test cell C37 (Table 2). RSP and soil containing greater than 5% RSP, as determined by visual inspection and field screening, was not encountered in Use Area PAH in 2021.

Soil samples were collected from the final limits of the excavations and from excavation backfill material and submitted to Pace Analytical for NNOC analysis. Composite soil samples were collected approximately every 15-ft to 30-ft (Table 1(a)) along the length of the excavation for laboratory analysis. The excavation backfill material was comprised of soil excavated from the area that was estimated to contain less than 1.5% RSP, as determined by visual inspection, field screening and/or laboratory analysis.

Only two of the 76 samples collected to characterize the final excavation limits in Use Area PAH had NNOC concentrations above recreational site-specific residual contaminant levels for direct contact (SSRCLs) (Table 3). These two samples were collected in the area of a culvert (drainages PAHD0074 and PAHD0076 as shown on Figure 3). All samples of soil used as excavation backfill material were below SSRCLs for direct contact. Following investigation work, cells C38 and C39 were constructed as shown on Figure 3.

2.0 USE AREA PAH VEGETATION CLEARING

Vegetation was cleared from the following locations late in the 2021 field season to prepare for site investigation work planned in 2022:

- TNT Line 9/10 drainages (PAHD0081, PAHD0091, PAHD0112 and PAHD0174)

Trees, brush, and stumps were cleared within portions of these ditches. The tree stumps and soil disturbed during removal of the stumps was estimated to contain less than 1.5% RSP, as determined by visual inspection and field screening.

3.0 CELL 23 EXCAVATION

Cell 23 located in Use Area PAK was excavated in 2021 to make room for the construction of a test cell for the soil heating pilot. Cell C23 was constructed in 2013 to initially study pH-related degradation of NNOCs via addition of hydrated lime. The majority of soil used for testing in C23

was removed in 2014 and held for continued testing and finally returned to other test cells in 2017. During excavation of the cell in 2021, residual soil containing NNOCs was identified and removed. In total, approximately 120 yd³ of soil was placed in cell C38. Additional detail is included in Waste Management Progress Report No. 10.

4.0 PERIMETER SURFACE WATER AND SEDIMENT SAMPLING

Surface water and sediment samples are taken periodically at the twelve locations where surface water leaves the site to determine whether these media are affected by operations on the site or by ongoing, naturally occurring erosion. Surface water samples were collected from two of the twelve drainage locations in September 2021 (Table 1(c) and Figure 4) and submitted to Eurofins TestAmerica for NNOC analysis. Surface water flow was not observed in the remaining ten locations at the time of sampling. NNOCs were detected in a surface water sample collected from one location (SW-I001) in 2021; however, detections were below human health and ecological screening criteria, where established.

Sediment samples were collected from five of the twelve locations in September 2021 and submitted to Eurofins TestAmerica for NNOC and total organic carbon analysis (Table 1(c) and Figure 4). Recently deposited sediment in a quantity sufficient for laboratory analysis was not observed in the remaining seven locations in 2021. NNOCs were detected in two sediment samples (SED-I001 and SED-F001). All detected NNOCs in perimeter sediment samples were below their respective non-industrial RCLs for direct contact.

5.0 CENTRAL DRAINAGE SEDIMENT SAMPLING

Sediment samples were collected from ten locations in the Central Drainage in 2021 and submitted to Eurofins TestAmerica for NNOC analysis (Table 1(c) and Figure 4). Three of the samples were also submitted for total organic carbon (TOC) analysis. All detected NNOCs in the Central Drainage sediment samples were below their respective recreational RCLs for direct contact. Results of the Central Drainage sediment sampling will be summarized in a separate report.

6.0 GROUNDWATER SAMPLING

Groundwater samples were collected from the following locations in 2021 (Table 1(c)):

- Clubhouse water supply well.
- Office trailer (PZ-16 POT) water supply well.

NNOCs were not detected in the samples collected from the Clubhouse or office trailer (PZ-16 POT) wells in 2021.

7.0 DEBRIS SCREENING

Remnant materials associated with former production areas were encountered in 2021. These materials included concrete and metal. To determine which debris contained site-related constituents, field personnel screened these items using FIDO[®] and Expray[®] tools. Debris managed in 2021 is discussed in detail in Waste Management Progress Report No. 10.

8.0 RSP REMOVAL

RSP and soil containing greater than 5% RSP, as determined by visual inspection and field screening (FIDO[®] and Expray[®]), was not encountered in Use Areas PAH in 2021.

Five pounds of residual TNT was removed from ditch PADD0001 in Use Area PAD by manual excavation. The collected TNT RSP was shipped to the United States Army Corps of Engineers

(USACE) in Vicksburg, Mississippi for use in laboratory tests to support the soil heating evaluation permitted in the last Hazardous Waste Remediation Variance modification.

9.0 SUMMARY

The 2021 site investigation effort, excluding Use Area PAJ, consisted of the following work:

- Excavation and sampling of seven former drainages in Use Area PAH. Approximately 600 yd³ of soil was excavated within these areas, which covered approximately 7,500 ft². A total of 126 yd³ of soil from these drainages was placed in cell C37.
- Excavation and placement of 120 yd³ of soil from Use Area PAK into cell C38.
- Collection of 105 soil samples, 15 sediment samples, three groundwater samples, and three surface water samples for laboratory analysis.
- Collection of five pounds of RSP from Use Area PAD for shipment to USACE.

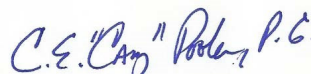
Only two of the 76 samples collected to characterize the final excavation limits in Use Area PAH had NNOC concentrations above SSRCLs. The results associated with these two samples, as well as the balance of the data collected in 2021, will be further evaluated as part of a future current conditions report update and no further action request for the Use Area. All samples of soil used as excavation backfill material were below SSRCLs for direct contact. AECOM appreciates the opportunity to support Chemours' investigation and remediation work at the Former DuPont Barksdale Works site and provide this summary of work completed in 2021.

Should you have any questions or comments, please do not hesitate to contact us.

Sincerely,



Eric Schmidt, P.E.
Project Engineer



C. E. "Cary" Pooler, P.G.
Associate Vice President

Attachments:

Tables

- Table 1 – 2021 Analytical Samples
- (a) Site Investigation Soil Samples – Use Area PAH
 - (b) Biopilot Cell Soil Samples
 - (c) Other Site Samples
- Table 2 – 2021 Soil Moved to Test Cells
(Excluding Soil from PAJ)
- Table 3 – Use Area PAH 2021 Soil Analytical Results
Summary

Figures

- Figure 1 – Regional Site Location
- Figure 2 – Site Layout and Cell Locations
- Figure 3 – 2021 PAH Site Investigation Summary
- Figure 4 – Water and Sediment Sampling Locations

Laboratory Reports

Appendix A: Laboratory Analytical Reports

Tables

2021 Site Investigation Samples - Use Area PAH
 2021 Site Investigation Summary Report
 Former DuPont Barksdale Works
 Town of Barksdale, Bayfield County, Wisconsin
 BRRTS: 02-04-000156

Sample ID	Quick Reference Name	Date	Time	Project	Work Area	Area Location Name	Feature Location ID	Top Depth (feet bgs)	Bottom Depth (feet bgs)	Sample Type	Matrix	No Longer In Place/ Excavated	Location Notes
SITG-210610-001Y-0-3.5	001Y-2021	6/10/2021	16:05	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Near intersection of ditch PAHD0145 and PAHD0057
SITG-210610-002Y-0-3.5	002Y-2021	6/10/2021	16:15	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Northern portion of ditch PAHD0145
SITG-210610-003Y-0-3.5	003Y-2021	6/10/2021	16:25	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Near intersection of ditch PAHD0145 and PAHD0146
SITG-210614-004Y-0-3.5	004Y-2021	6/14/2021	8:02	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Central portion of PAHD0145
SITG-210614-005Y-0-3.5	005Y-2021	6/14/2021	8:10	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Central portion of PAHD0145
SITG-210614-006Y-0-3.5	006Y-2021	6/14/2021	8:18	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Central portion of PAHD0145
SITG-210614-007Y-0-3.5	007Y-2021	6/14/2021	8:26	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Central portion of PAHD0145
SITG-210615-001X-0-3	001X-2021	6/15/2021	14:20	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Near intersection of ditch PAHD0145 and PAHD0057
SITG-210615-001X-0-3-D	001X-2021	6/15/2021	14:20	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Near intersection of ditch PAHD0145 and PAHD0057
SITG-210615-002X-0-3	002X-2021	6/15/2021	14:22	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Northern portion of ditch PAHD0145
SITG-210615-002X-0-3-D	002X-2021	6/15/2021	14:22	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Northern portion of ditch PAHD0145
SITG-210615-003X-0-3	003X-2021	6/15/2021	14:24	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Near intersection of ditch PAHD0145 and PAHD0146
SITG-210615-003X-0-3-D	003X-2021	6/15/2021	14:24	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Near intersection of ditch PAHD0145 and PAHD0146
SITG-210615-004X-0-3	004X-2021	6/15/2021	14:26	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Central portion of ditch PAHD0145
SITG-210615-004X-0-3-D	004X-2021	6/15/2021	14:26	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Central portion of ditch PAHD0145
SITG-210615-005X-0-3	005X-2021	6/15/2021	14:28	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Central portion of ditch PAHD0145
SITG-210615-006X-0-3	006X-2021	6/15/2021	14:30	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Central portion of ditch PAHD0145
SITG-210615-007X-0-3	007X-2021	6/15/2021	14:32	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Central portion of ditch PAHD0145
SITG-210615-008X-0-3	008X-2021	6/15/2021	14:34	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Near intersection of ditch PAHD0145 and PAHD0047
SITG-210615-008Y-0-3.5	008Y-2021	6/15/2021	11:16	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Near intersection of ditch PAHD0145 and PAHD0047
SITG-210615-009X-0-3	009X-2021	6/15/2021	14:36	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Southern portion of ditch PAHD0145
SITG-210615-009Y-0-3.5	009Y-2021	6/15/2021	11:26	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Southern portion of ditch PAHD0145
SITG-210615-010X-0-3	010X-2021	6/15/2021	14:38	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Southern portion of ditch PAHD0145
SITG-210615-010Y-0-3.5	010Y-2021	6/15/2021	11:36	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Southern portion of ditch PAHD0145
SITG-210615-011X-0-3	011X-2021	6/15/2021	14:40	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Southern portion of ditch PAHD0145
SITG-210615-011Y-0-3.5	011Y-2021	6/15/2021	11:46	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Southern portion of ditch PAHD0145
SITG-210615-012X-0-3	012X-2021	6/15/2021	14:42	SI	PAH	C38 and C39	PAHD0145	0.0	3.0	Composite	Soil	X	Southern portion of ditch PAHD0145
SITG-210615-012Y-0-3.5	012Y-2021	6/15/2021	11:56	SI	PAH	C38 and C39	PAHD0145	0.0	3.5	Composite	Soil		Southern portion of ditch PAHD0145
SITG-210615-013X-0-3	013X-2021	6/15/2021	14:44	SI	PAH	C38 and C39	PAHD0057	0.0	3.0	Composite	Soil	X	Central portion of ditch PAHD0057
SITG-210615-013Y-0-3.5	013Y-2021	6/15/2021	15:08	SI	PAH	C38 and C39	PAHD0057	0.0	3.5	Composite	Soil		Central portion of ditch PAHD0057
SITG-210618-014Y-0-3.5	014Y-2021	6/18/2021	8:50	SI	PAH	C38 and C39	PAHD0057	0.0	3.5	Composite	Soil		Eastern portion of ditch PAHD0057
SITG-210618-015C-3-3.5	015C-2021	6/18/2021	8:58	SI	PAH	C38 and C39	PAHD0146	3.0	3.5	Composite	Soil	X	Eastern portion of ditch PAHD0146
SITG-210618-015N-0-3	015N-2021	6/18/2021	9:00	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil	X	Eastern portion of ditch PAHD0146
SITG-210618-015S-0-3	015S-2021	6/18/2021	9:02	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil	X	Eastern portion of ditch PAHD0146
SITG-210618-016C-3-3.5	016C-2021	6/18/2021	9:06	SI	PAH	C38 and C39	PAHD0146	3.0	3.5	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-016N-0-3	016N-2021	6/18/2021	9:08	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-016S-0-3	016S-2021	6/18/2021	9:10	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-017C-3-3.5	017C-2021	6/18/2021	9:14	SI	PAH	C38 and C39	PAHD0146	3.0	3.5	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-017N-0-3	017N-2021	6/18/2021	9:16	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0146

Table 1 (a)
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Sample ID	Quick Reference Name	Date	Time	Project	Work Area	Area Location Name	Feature Location ID	Top Depth (feet bgs)	Bottom Depth (feet bgs)	Sample Type	Matrix	No Longer In Place/ Excavated	Location Notes
SITG-210618-017S-0-3	017S-2021	6/18/2021	9:18	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-018C-3-3.5	018C-2021	6/18/2021	9:22	SI	PAH	C38 and C39	PAHD0146	3.0	3.5	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-018E-0-3	018E-2021	6/18/2021	9:28	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-018N-0-3	018N-2021	6/18/2021	9:24	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-018S-0-3	018S-2021	6/18/2021	9:26	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0146
SITG-210618-018X-0-3	018X-2021	6/18/2021	9:30	SI	PAH	C38 and C39	PAHD0146	0.0	3.0	Composite	Soil	X	Eastern portion of ditch PAHD0146
SITG-210618-019Y-0-3.5	019Y-2021	6/18/2021	9:32	SI	PAH	C38 and C39	PAHD0047	0.0	3.5	Composite	Soil	X	Eastern portion of ditch PAHD0047
SITG-210618-020C-3-3.5	020C-2021	6/18/2021	9:40	SI	PAH	C38 and C39	PAHD0047	3.0	3.5	Composite	Soil		Eastern portion of ditch PAHD0047
SITG-210618-020E-0-3	020E-2021	6/18/2021	9:46	SI	PAH	C38 and C39	PAHD0047	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0047
SITG-210618-020N-0-3	020N-2021	6/18/2021	9:42	SI	PAH	C38 and C39	PAHD0047	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0047
SITG-210618-020S-0-3	020S-2021	6/18/2021	9:44	SI	PAH	C38 and C39	PAHD0047	0.0	3.0	Composite	Soil		Eastern portion of ditch PAHD0047
SITG-210623-021Y-0-3.5	021Y-2021	6/23/2021	13:15	SI	PAH	C38 and C39	PAHD0057	0.0	3.5	Composite	Soil		Western portion of ditch PAHD0057
SITG-210623-022X-0-3	022X-2021	6/23/2021	13:19	SI	PAH	C38 and C39	PAHD0047	0.0	3.0	Composite	Soil	X	Western portion of ditch PAHD0047
SITG-210623-022Y-0-3.5	022Y-2021	6/23/2021	13:17	SI	PAH	C38 and C39	PAHD0047	0.0	3.5	Composite	Soil		Western portion of ditch PAHD0047
SITG-210623-023X-0-3	023X-2021	6/23/2021	13:23	SI	PAH	C38 and C39	PAHD0047	0.0	3.0	Composite	Soil	X	Western portion of ditch PAHD0047
SITG-210623-023Y-0-3.5	023Y-2021	6/23/2021	13:21	SI	PAH	C38 and C39	PAHD0047	0.0	3.5	Composite	Soil		Western portion of ditch PAHD0047
SITG-210624-024C-5-5.5	024C-2021	6/24/2021	12:17	SI	PAH	C38 and C39	PAHD0076	5.0	5.5	Composite	Soil		Near intersection of ditch PAHD0076/PAHD0074 and roadway
SITG-210624-024E-0-5	024E-2021	6/24/2021	12:21	SI	PAH	C38 and C39	PAHD0076	0.0	5.0	Composite	Soil		Near intersection of ditch PAHD0076/PAHD0074 and roadway
SITG-210624-024N-0-5	024N-2021	6/24/2021	12:23	SI	PAH	C38 and C39	PAHD0076	0.0	5.0	Composite	Soil		Near intersection of ditch PAHD0076/PAHD0074 and roadway
SITG-210624-024W-0-5	024W-2021	6/24/2021	12:19	SI	PAH	C38 and C39	PAHD0076	0.0	5.0	Composite	Soil		Near intersection of ditch PAHD0076/PAHD0074 and roadway
SITG-210624-024X-0-5	024X-2021	6/24/2021	12:15	SI	PAH	C38 and C39	PAHD0076	0.0	5.0	Composite	Soil	X	Near intersection of ditch PAHD0076/PAHD0074 and roadway
SIGP-210625-PAH-01-0-2	PAH-01-2021	6/25/2021	9:05	SI	PAH	C38 and C39	--	0.0	2.0	Composite	Soil		Small excavation south of western end of ditch PAHD0057
SIGP-210625-PAH-01-2-4	PAH-01-2021	6/25/2021	9:07	SI	PAH	C38 and C39	--	2.0	4.0	Composite	Soil		Small excavation south of western end of ditch PAHD0057
SIGP-210625-PAH-02-0-2	PAH-02-2021	6/25/2021	9:32	SI	PAH	C38 and C39	--	0.0	2.0	Composite	Soil		Small excavation south of western end of ditch PAHD0146
SIGP-210625-PAH-02-2-4	PAH-02-2021	6/25/2021	9:34	SI	PAH	C38 and C39	--	2.0	4.0	Composite	Soil		Small excavation south of western end of ditch PAHD0146
SIGP-210625-PAH-03-0-2	PAH-03-2021	6/25/2021	10:03	SI	PAH	C38 and C39	--	0.0	2.0	Composite	Soil		Small excavation south of central portion of ditch PAHD0047
SIGP-210625-PAH-03-2-4	PAH-03-2021	6/25/2021	10:05	SI	PAH	C38 and C39	--	2.0	4.0	Composite	Soil		Small excavation south of central portion of ditch PAHD0047
SIGP-210625-PAH-04-0-2	PAH-04-2021	6/25/2021	10:27	SI	PAH	C38 and C39	--	0.0	2.0	Composite	Soil		Small excavation south of western end of ditch PAHD0047
SIGP-210625-PAH-04-2-4	PAH-04-2021	6/25/2021	10:29	SI	PAH	C38 and C39	--	2.0	4.0	Composite	Soil		Small excavation south of western end of ditch PAHD0047
SIGP-210625-PAH-05-0-2	PAH-05-2021	6/25/2021	11:02	SI	PAH	C38 and C39	--	0.0	2.0	Composite	Soil		Small excavation south of PAHD0160
SIGP-210625-PAH-05-2-4	PAH-05-2021	6/25/2021	11:04	SI	PAH	C38 and C39	--	2.0	4.0	Composite	Soil		Small excavation south of PAHD0160
SIGP-210625-PAH-06-0-2	PAH-06-2021	6/25/2021	11:35	SI	PAH	C38 and C39	--	0.0	2.0	Composite	Soil		Small excavation between ditch PAHD0145 and PAHD078
SIGP-210625-PAH-06-2-4	PAH-06-2021	6/25/2021	11:37	SI	PAH	C38 and C39	--	2.0	4.0	Composite	Soil		Small excavation between ditch PAHD0145 and PAHD078
SIGP-210625-PAH-07-0-2	PAH-07-2021	6/25/2021	12:00	SI	PAH	C38 and C39	--	0.0	2.0	Composite	Soil		Small excavation between ditch PAHD0145 and PAHD075
SIGP-210625-PAH-07-2-4	PAH-07-2021	6/25/2021	12:02	SI	PAH	C38 and C39	--	2.0	4.0	Composite	Soil		Small excavation between ditch PAHD0145 and PAHD075
SITG-210625-025C-3.5-4	025C-2021	6/25/2021	12:46	SI	PAH	C38 and C39	PAHD0146	3.5	4.0	Composite	Soil		Western end of ditch PAHD0146
SITG-210625-025N-0-3.5	025N-2021	6/25/2021	12:49	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Western end of ditch PAHD0146
SITG-210625-025S-0-3.5	025S-2021	6/25/2021	12:52	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Western end of ditch PAHD0146
SITG-210625-025W-0-3.5	025W-2021	6/25/2021	12:55	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Western end of ditch PAHD0146
SITG-210625-025X-0-3.5	025X-2021	6/25/2021	12:58	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Western end of ditch PAHD0146
SITG-210625-026C-3.5-4	026C-2021	6/25/2021	13:01	SI	PAH	C38 and C39	PAHD0146	3.5	4.0	Composite	Soil		Western portion of ditch PAHD0146
SITG-210625-026N-0-3.5	026N-2021	6/25/2021	13:04	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Western portion of ditch PAHD0146
SITG-210625-026S-0-3.5	026S-2021	6/25/2021	13:07	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Western portion of ditch PAHD0146
SITG-210625-026X-0-3.5	026X-2021	6/25/2021	13:10	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Western portion of ditch PAHD0146
SITG-210625-027C-3.5-4	027C-2021	6/25/2021	13:13	SI	PAH	C38 and C39	PAHD0146	3.5	4.0	Composite	Soil		Western portion of ditch PAHD0146

Table 1 (a)
Page 3 of 3

Sample ID	Quick Reference Name	Date	Time	Project	Work Area	Area Location Name	Feature Location ID	Top Depth (feet bgs)	Bottom Depth (feet bgs)	Sample Type	Matrix	No Longer In Place/ Excavated	Location Notes
SITG-210625-027N-0-3.5	027N-2021	6/25/2021	13:16	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Western portion of ditch PAHD0146
SITG-210625-027S-0-3.5	027S-2021	6/25/2021	13:19	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Western portion of ditch PAHD0146
SITG-210625-027X-0-3.5	027X-2021	6/25/2021	13:22	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Western portion of ditch PAHD0146
SITG-210625-028C-3.5-4	028C-2021	6/25/2021	13:25	SI	PAH	C38 and C39	PAHD0146	3.5	4.0	Composite	Soil	X	Western portion of ditch PAHD0146
SITG-210625-028N-0-3.5	028N-2021	6/25/2021	13:28	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Western portion of ditch PAHD0146
SITG-210625-028S-0-3.5	028S-2021	6/25/2021	13:31	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Western portion of ditch PAHD0146
SITG-210625-028X-0-3.5	028X-2021	6/25/2021	13:34	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Western portion of ditch PAHD0146
SITG-210625-029C-3.5-4	029C-2021	6/25/2021	13:37	SI	PAH	C38 and C39	PAHD0146	3.5	4.0	Composite	Soil	X	Central portion of ditch PAHD0146
SITG-210625-029N-0-3.5	029N-2021	6/25/2021	13:40	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Central portion of ditch PAHD0146
SITG-210625-029S-0-3.5	029S-2021	6/25/2021	13:43	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Central portion of ditch PAHD0146
SITG-210625-029X-0-3.5	029X-2021	6/25/2021	13:46	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Central portion of ditch PAHD0146
SITG-210625-030C-3.5-4	030C-2021	6/25/2021	13:49	SI	PAH	C38 and C39	PAHD0146	3.5	4.0	Composite	Soil		Central portion of ditch PAHD0146
SITG-210625-030N-0-3.5	030N-2021	6/25/2021	13:52	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Central portion of ditch PAHD0146
SITG-210625-030S-0-3.5	030S-2021	6/25/2021	13:55	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil		Central portion of ditch PAHD0146
SITG-210625-030X-0-3.5	030X-2021	6/25/2021	13:58	SI	PAH	C38 and C39	PAHD0146	0.0	3.5	Composite	Soil	X	Central portion of ditch PAHD0146
SITG-210628-031X-0-4.5	031X-2021	6/28/2021	12:48	SI	PAH	C38 and C39	PAHD0160	0.0	4.5	Composite	Soil	X	Central portion of ditch PAHD0146
SITG-210628-031Y-0-5	031Y-2021	6/28/2021	12:50	SI	PAH	C38 and C39	PAHD0160	0.0	5.0	Composite	Soil		Eastern end of ditch PAHD0160
SITG-210628-032X-0-4.5	032X-2021	6/28/2021	12:52	SI	PAH	C38 and C39	PAHD0160	0.0	4.5	Composite	Soil	X	Eastern portion of ditch PAHD0160
SITG-210628-032Y-0-5	032Y-2021	6/28/2021	12:54	SI	PAH	C38 and C39	PAHD0160	0.0	5.0	Composite	Soil		Eastern portion of ditch PAHD0160
SITG-210628-033X-0-4.5	033X-2021	6/28/2021	12:56	SI	PAH	C38 and C39	PAHD0160	0.0	4.5	Composite	Soil	X	Near intersection of ditch PAHD0160 and PAHD0145
SITG-210628-033Y-0-5	033Y-2021	6/28/2021	12:58	SI	PAH	C38 and C39	PAHD0160	0.0	5.0	Composite	Soil		Near intersection of ditch PAHD0160 and PAHD0145

Notes:

SI: Site Investigation
PAH: Production Area H
bgs: Below ground surface

Sample ID Notes:

N: Northern sidewall of excavation
S: Southern sidewall of excavation
E: Eastern sidewall of excavation
W: Western sidewall of excavation
C: Bottom of excavation
X: Stockpile soil that was placed back into excavation
Y: Composite of excavation sidewalls and bottom
Z: Surficial sample after backfilling and regrading
D: Duplicate sample

Table 1 (b)

Page 1 of 1

2021 Biopilot Cell Soil Samples

2021 Site Investigation Summary Report

Former DuPont Barksdale Works

Town of Barksdale, Bayfield County, Wisconsin

BRRTS: 02-04-000156

Sample ID	Quick Reference Name	Date	Time	Project	Work Area	Feature Location ID	Top Depth (feet bgs)	Bottom Depth (feet bgs)	Sample Type	Matrix
BPSB-210825-C33-0-1.5	PILOT-C33	8/25/2021	14:00	Biopilot	PAH	C33	0.0	1.5	Composite	Soil
BPSB-211004-C24-0-1.5	PILOT-C24	10/4/2021	9:40	Biopilot	PAH	C24	0.0	1.5	Composite	Soil
BPSB-211004-C28-0-1.5	PILOT-C28	10/4/2021	10:00	Biopilot	PAH	C28	0.0	1.5	Composite	Soil
BPSB-211004-C31-0-1	PILOT-C31	10/4/2021	10:20	Biopilot	PAH	C31	0.0	1.0	Composite	Soil
BPSB-211004-C33-0-1.5	PILOT-C33	10/4/2021	10:40	Biopilot	PAH	C33	0.0	1.5	Composite	Soil
BPSB-211004-C33-0-1.5-D	PILOT-C33	10/4/2021	10:40	Biopilot	PAH	C33	0.0	1.5	Composite	Soil
BPSB-211004-C35-0-2	PILOT-C35	10/4/2021	11:00	Biopilot	PAH	C35	0.0	2.0	Composite	Soil
BPSB-211004-C36-0-2	PILOT-C36	10/4/2021	11:20	Biopilot	PAH	C36	0.0	2.0	Composite	Soil
BPSB-211004-C37-0-3	PILOT-C37	10/4/2021	11:45	Biopilot	PAI	C37	0.0	2.0	Composite	Soil

Notes:

bgs: Below ground surface

C: Cell

Table 1 (c)

Page 1 of 1

2021 Other Site Samples

2021 Site Investigation Summary Report

Former DuPont Barksdale Works

Town of Barksdale, Bayfield County, Wisconsin

BRRTS: 02-04-000156

Sample ID	Date	Time	Project	Work area	Feature Location ID	Sample Type	Matrix
SW2021-SED-B001	9/1/2021	13:35	Site Investigation	Perimeter	B001	SED	Sediment
SW2021-SED-D001	9/1/2021	14:10	Site Investigation	Perimeter	D001	SED	Sediment
SW2021-SED-I001	9/2/2021	10:18	Site Investigation	Perimeter	I001	SED	Sediment
SW2021-SED-K001	9/20/2021	15:20	Site Investigation	Perimeter	K001	SED	Sediment
SW2021-SED-F001	9/20/2021	14:50	Site Investigation	Perimeter	F001	SED	Sediment
SW2021-SW-I001	9/29/2021	10:30	Site Investigation	Perimeter	I001	SW	Water
SW2021-SW-I001-D	9/29/2021	10:30	Site Investigation	Perimeter	I001	SW	Water
SW2021-SW-K001	9/29/2021	11:00	Site Investigation	Perimeter	K001	SW	Water
GW2021-CLUBHOUSE-INFLOW	10/5/2021	10:50	O & M	PAL	Clubhouse before carbon	GW	Water
GW2021-CLUBHOUSE-INFLOW-D	10/5/2021	12:00	O & M	PAL	Clubhouse before carbon	GW	Water
GW2021-PZ16-POT-INFLOW	10/5/2021	12:00	O & M	UAC	Office trailer before carbon	GW	Water
SW2021-SED-F002	11/1/2021	15:00	Site Investigation	Perimeter	F002	SED	Sediment
SW2021-SED-F003	11/1/2021	15:20	Site Investigation	Perimeter	F003	SED	Sediment
SW2021-SED-F004	11/1/2021	15:40	Site Investigation	Perimeter	F004	SED	Sediment
SW2021-SED-F005	11/1/2021	16:00	Site Investigation	Perimeter	F005	SED	Sediment
SW2021-SED-F006	11/1/2021	16:15	Site Investigation	Perimeter	F006	SED	Sediment
SW2021-SED-F007	11/2/2021	13:10	Site Investigation	Perimeter	F007	SED	Sediment
SW2021-SED-F007-D	11/2/2021	13:10	Site Investigation	Perimeter	F007	SED	Sediment
SW2021-SED-F008	11/2/2021	12:55	Site Investigation	Perimeter	F008	SED	Sediment
SW2021-SED-F009	11/2/2021	12:40	Site Investigation	Perimeter	F009	SED	Sediment
SW2021-SED-F000	11/2/2021	13:35	Site Investigation	Perimeter	F000	SED	Sediment

Notes:

GW: Groundwater

SED: Sediment

SW: Surface water

-D: Duplicate sample

-MS: Matrix spike sample

-MSD: Matrix spike duplicate sample

Table 2

Page 1 of 1

2021 Soil Moved to Test Cells (Excluding Soil from PAJ)

2021 Site Investigation Summary Report

Former DuPont Barksdale Works

Town of Barksdale, Bayfield County, Wisconsin

BRRTS: 02-04-000156

Source	Destination Cell	Volume (CY)	Date
Use Area PAH Ditch PAHD0146	C37	120	6/15/2021 - 6/24/2021
Use Area PAH Ditch PAHD0076	C37	6	6/24/2021
Portions of cell C23 base and berm that were in contact with the cell material	C38	120	8/20/2021

Notes:

CY: cubic yards

C: Cell

Table 3
Use Area PAH 2021 Soil Analytical Results Summary
 2021 Site Investigation Summary Report
 Former DuPont Barksdale Works
 Town of Barksdale, Bayfield County, Wisconsin
 BRRTS: 02-04-000156

Field Sample ID		Site-Specific Recreational RCL for Direct Contact	SIGP-210625-PAH-04-0-2	SIGP-210625-PAH-05-0-2	SITG-210618-016C-3-3.5	SITG-210618-016N-0-3	SITG-210618-018E-0-3	SITG-210618-018N-0-3	SITG-210618-020E-0-3	SITG-210618-020N-0-3	
Date Sampled			06/25/2021	06/25/2021	06/18/2021	06/18/2021	06/18/2021	06/18/2021	06/18/2021	06/18/2021	06/18/2021
Start Depth - End Depth (ft bgs)			0 - 2	0 - 2	3 - 3.5	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3
Excavated			N	N	N	N	N	N	N	N	N
Detected Parameter Name	Report Units		Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
2,4,6-Trinitrotoluene	UG/KG	124000	200 J	150 J	190 J	160 J	200	180 J	260	12000	
2-Amino-4,6-Dinitrotoluene	UG/KG	45000	170 J	<3.8	150 J	150 J	160 J	160 J	180 J	560	
4-Amino-2,6-Dinitrotoluene	UG/KG	44700	170 J	160 J	160 J	160 J	160 J	160 J	190 J	400	
2,4-Dinitrotoluene	UG/KG	7030	<6.6	<6.4	<6.3	<6.4	<6.3	<6.3	<6.4	<6.4	
2,6-Dinitrotoluene	UG/KG	7030	<4.7	<4.6	<4.5	<4.6	<4.5	<4.5	<4.6	<4.6	
2,5-Dinitrotoluene	UG/KG	7030	<7	<6.8	<6.7	<6.8	<6.8	<6.7	<6.8	<6.8	
3,5-Dinitrotoluene	UG/KG	7030	<4.9	<4.8	<4.7	<4.8	<4.7	<4.7	<4.8	<4.8	
Total DNT Isomers	UG/KG	70300	<35.3 [U]	<34.5 [U]	<33.8 [U]	<34.4 [U]	<34 [U]	<33.8 [U]	<34.4 [U]	<34.5 [U]	
2,4,6-Trinitroxylyene	UG/KG	124000	<2.8	<2.8	<2.7	<2.7	<2.7	<2.7	<2.7	<2.8	
1,3-Dinitrobenzene	UG/KG	36900	<34	<34	<33	<33	<33	<33	<34	<34	
2-Nitrotoluene	UG/KG	18400	<4.4	<4.3	<4.2	<4.3	<4.2	<4.2	<4.3	<4.3	
1-Methyl-3-Nitrobenzene	UG/KG	36900	<5.4	<5.3	<5.2	<5.3	<5.2	<5.2	<5.3	<5.3	
1-Methyl-4-Nitrobenzene	UG/KG	198000	<5.7	<5.6	<5.5	<5.6	<5.5	<5.5	<5.6	<5.6	

Notes:

In place soil samples with detected parameter(s) only are included on this table.

0.0 Detected results in bold

0.0 Highlighted concentration exceeds recreational residual contaminant level for direct contact

UG/KG: micrograms per kilogram
 ft bgs: feet below ground surface
 RCL: Residual Contaminant Level
 DNT: dinitrotoluene

J: Analyte was detected but is below the reporting limit. The concentration is estimated.

[U]: Not detected.

Table 3
Use Area PAH 2021 Soil Analytical Results Summary
 2021 Site Investigation Summary Report
 Former DuPont Barksdale Works
 Town of Barksdale, Bayfield County, Wisconsin
 BRRTS: 02-04-000156

Field Sample ID		Site-Specific Recreational RCL for Direct Contact	SITG-210624-024C-5-5.5	SITG-210624-024N-0-5	SITG-210624-024W-0-5	SITG-210625-025C-3.5-4	SITG-210625-025N-0-3.5	SITG-210625-025S-0-3.5	SITG-210625-025W-0-3.5	SITG-210625-026N-0-3.5	
Date Sampled			06/24/2021	06/24/2021	06/24/2021	06/25/2021	06/25/2021	06/25/2021	06/25/2021	06/25/2021	06/25/2021
Start Depth - End Depth (ft bgs)			5 - 5.5	0 - 5	0 - 5	3.5 - 4	0 - 3.5	0 - 3.5	0 - 3.5	0 - 3.5	0 - 3.5
Excavated			N	N	N	N	N	N	N	N	N
Detected Parameter Name	Report Units		Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
2,4,6-Trinitrotoluene	UG/KG	124000	1600	280000	150000	200	780	9500	230	490	
2-Amino-4,6-Dinitrotoluene	UG/KG	45000	180 J	1100	1600	160 J	200	470	170 J	190 J	
4-Amino-2,6-Dinitrotoluene	UG/KG	44700	190 J	1000	2100	160 J	200	350	170 J	180 J	
2,4-Dinitrotoluene	UG/KG	7030	<6.3	17000	290	<6.4	<6.5	<6.4	<6.5	<6.6	
2,6-Dinitrotoluene	UG/KG	7030	<4.5	15000	230	<4.6	<4.6	<4.6	<4.6	<4.7	
2,5-Dinitrotoluene	UG/KG	7030	<6.7	300	<6.8	<6.8	<6.9	<6.8	<6.9	<7	
3,5-Dinitrotoluene	UG/KG	7030	<4.7	420	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	
Total DNT Isomers	UG/KG	70300	<33.8 [U]	32731.8	543.4	<34.4 [U]	<34.7 [U]	<34.4 [U]	<34.7 [U]	<35.3 [U]	
2,4,6-Trinitroxylyene	UG/KG	124000	<2.7	<2.7	760	<2.7	<2.8	<2.7	<2.8	<2.8	
1,3-Dinitrobenzene	UG/KG	36900	<33	4500	200	<34	<34	<34	<34	<35	
2-Nitrotoluene	UG/KG	18400	<4.2	280	<4.3	<4.3	<4.3	<4.3	<4.3	<4.4	
1-Methyl-3-Nitrobenzene	UG/KG	36900	<5.2	87 J	<5.3	<5.3	<5.3	<5.3	<5.3	<5.4	
1-Methyl-4-Nitrobenzene	UG/KG	198000	<5.5	230	<5.6	<5.6	<5.6	<5.6	<5.6	<5.8	

Notes:

In place soil samples with detected parameter(s) only are included on this table.

0.0 Detected results in bold

0.0 Highlighted concentration exceeds recreational residual contaminant level for direct contact

UG/KG: micrograms per kilogram
 ft bgs: feet below ground surface
 RCL: Residual Contaminant Level
 DNT: dinitrotoluene

J: Analyte was detected but is below the reporting limit. The concentration is estimated.

[U]: Not detected.

Table 3
Use Area PAH 2021 Soil Analytical Results Summary
 2021 Site Investigation Summary Report
 Former DuPont Barksdale Works
 Town of Barksdale, Bayfield County, Wisconsin
 BRRTS: 02-04-000156

Field Sample ID		Site-Specific Recreational RCL for Direct Contact	SITG-210625-026S-0-3.5	SITG-210625-027C-3.5-4	SITG-210625-027N-0-3.5	SITG-210625-027S-0-3.5	SITG-210625-030C-3.5-4	SITG-210625-030S-0-3.5
Date Sampled			06/25/2021	06/25/2021	06/25/2021	06/25/2021	06/25/2021	06/25/2021
Start Depth - End Depth (ft bgs)			0 - 3.5	3.5 - 4	0 - 3.5	0 - 3.5	3.5 - 4	0 - 3.5
Excavated			N	N	N	N	N	N
Detected Parameter Name	Report Units		Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
2,4,6-Trinitrotoluene	UG/KG	124000	150 J	170 J	170 J	220	170 J	150 J
2-Amino-4,6-Dinitrotoluene	UG/KG	45000	<3.8	160 J	160 J	160 J	160 J	<3.8
4-Amino-2,6-Dinitrotoluene	UG/KG	44700	160 J	170 J	170 J	170 J	170 J	160 J
2,4-Dinitrotoluene	UG/KG	7030	<6.4	<6.5	<6.5	<6.4	<6.4	<6.4
2,6-Dinitrotoluene	UG/KG	7030	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6
2,5-Dinitrotoluene	UG/KG	7030	<6.9	<6.9	<6.9	<6.8	<6.8	<6.8
3,5-Dinitrotoluene	UG/KG	7030	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Total DNT Isomers	UG/KG	70300	<34.6 [U]	<34.7 [U]	<34.7 [U]	<34.4 [U]	<34.5 [U]	<34.4 [U]
2,4,6-Trinitroxylyene	UG/KG	124000	<2.8	<2.8	<2.8	<2.7	<2.8	<2.7
1,3-Dinitrobenzene	UG/KG	36900	<34	<34	<34	<34	<34	<33
2-Nitrotoluene	UG/KG	18400	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3
1-Methyl-3-Nitrobenzene	UG/KG	36900	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
1-Methyl-4-Nitrobenzene	UG/KG	198000	<5.6	<5.7	<5.6	<5.6	<5.6	<5.6

Notes:

In place soil samples with detected parameter(s) only are included on this table.

0.0 Detected results in bold

0.0 Highlighted concentration exceeds recreational residual contaminant level for direct contact

UG/KG: micrograms per kilogram

ft bgs: feet below ground surface

RCL: Residual Contaminant Level

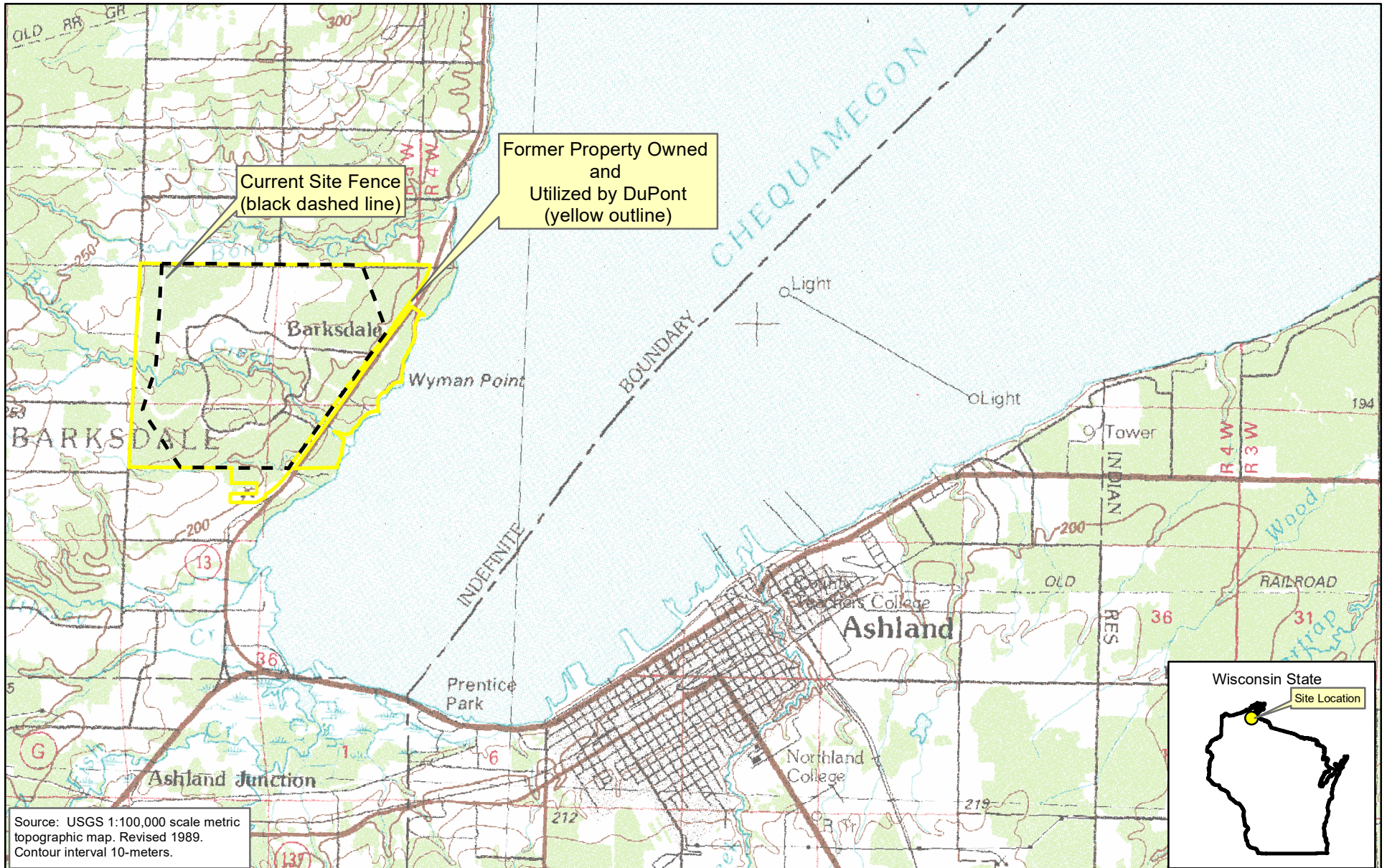
DNT: dinitrotoluene

J: Analyte was detected but is below the reporting limit. The concentration is estimated.

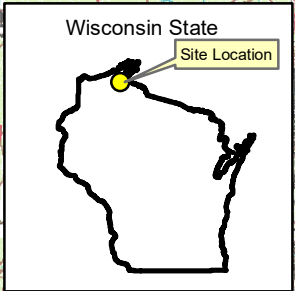
[U]: Not detected.

Figures

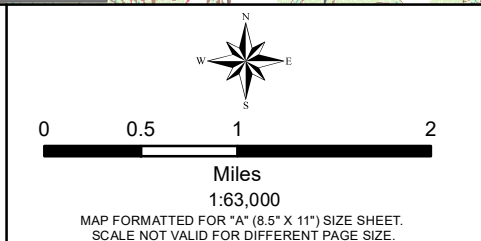
C:\Users\desmond.nelsen\Desktop\Barksdale\GIS_data\GIS Pioneer Files_1_14_2021\Maps\Maps 2022_DN\2021 Site Investigation Report\Fig_1_Site_Loc.mxd



Source: USGS 1:100,000 scale metric topographic map. Revised 1989. Contour interval 10-meters.



Area Map (Optional)



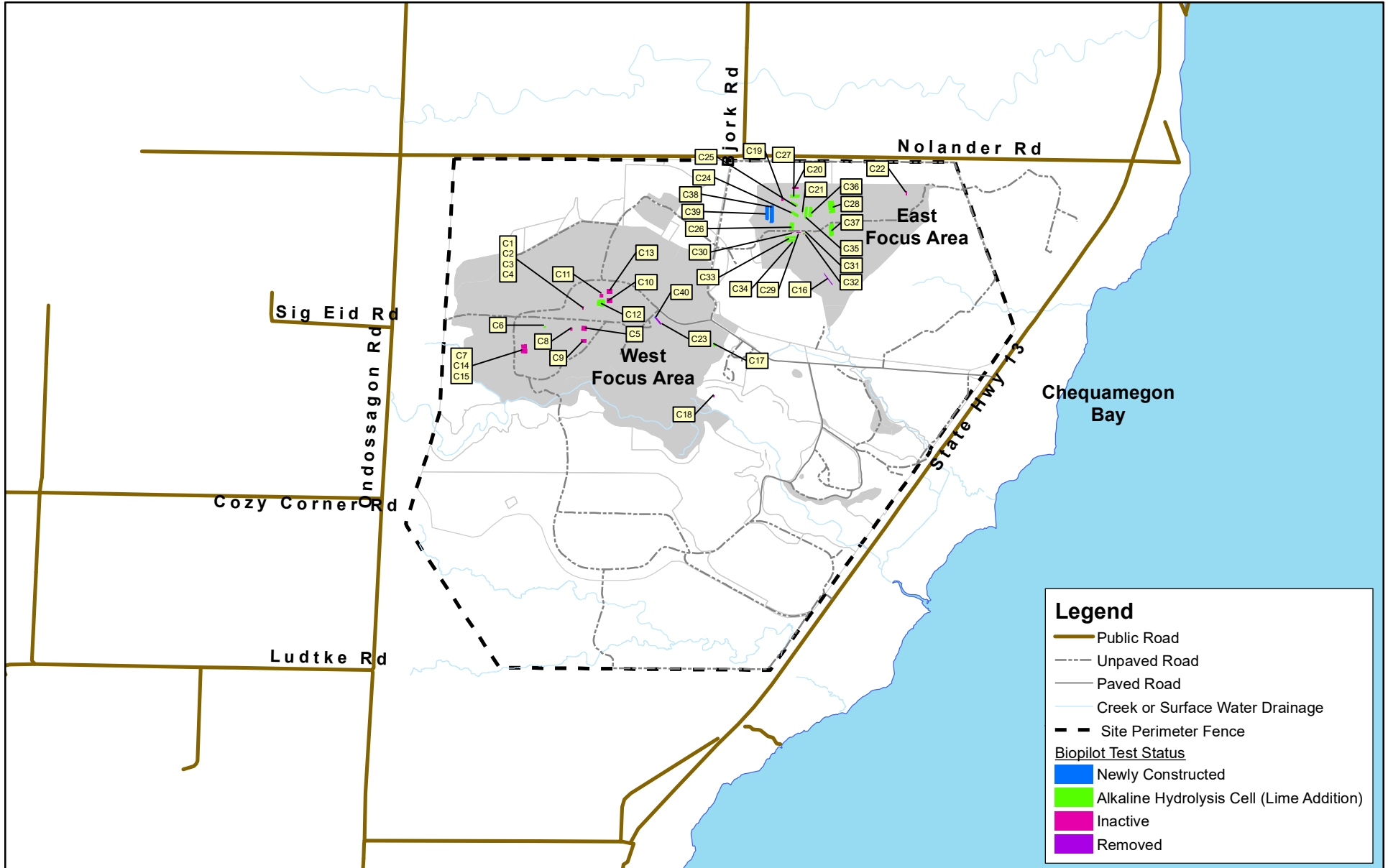
FILE NUMBER:
 DESIGNED BY: DJN
 DRAWN BY: DJN
 DATA QUALITY CHECK BY: ECS

AECOM
 AECOM
 500 West Jefferson Street
 Suite 1600
 Louisville, Kentucky 40202

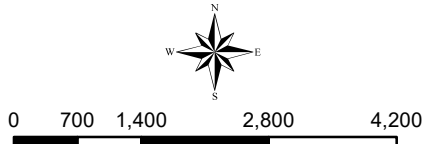
Regional Site Location
 2021 Site Investigation Summary
 Former DuPont Barksdale Works
 Barksdale, Wisconsin 54806

PROJECT NUMBER:
 60660855
 DATE:
 June 2022
 FIGURE NUMBER:
 1

C:\Users\dsmoond\desktop\Barksdale\GIS data\GIS Pioneer Files 1:14:2021\Maps\Maps 2022_DNI\2021 Site Investigation Report\Fig 2_Bio_Pilot_Cells.mxd



Area Map (Optional)



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

FILE NUMBER:

DESIGNED BY:
DJN

DRAWN BY:
DJN

DATA QUALITY CHECK BY:
ECS

AECOM

AECOM
500 West Jefferson Street
Suite 1600
Louisville, Kentucky 40202

Site Layout and Cell Locations

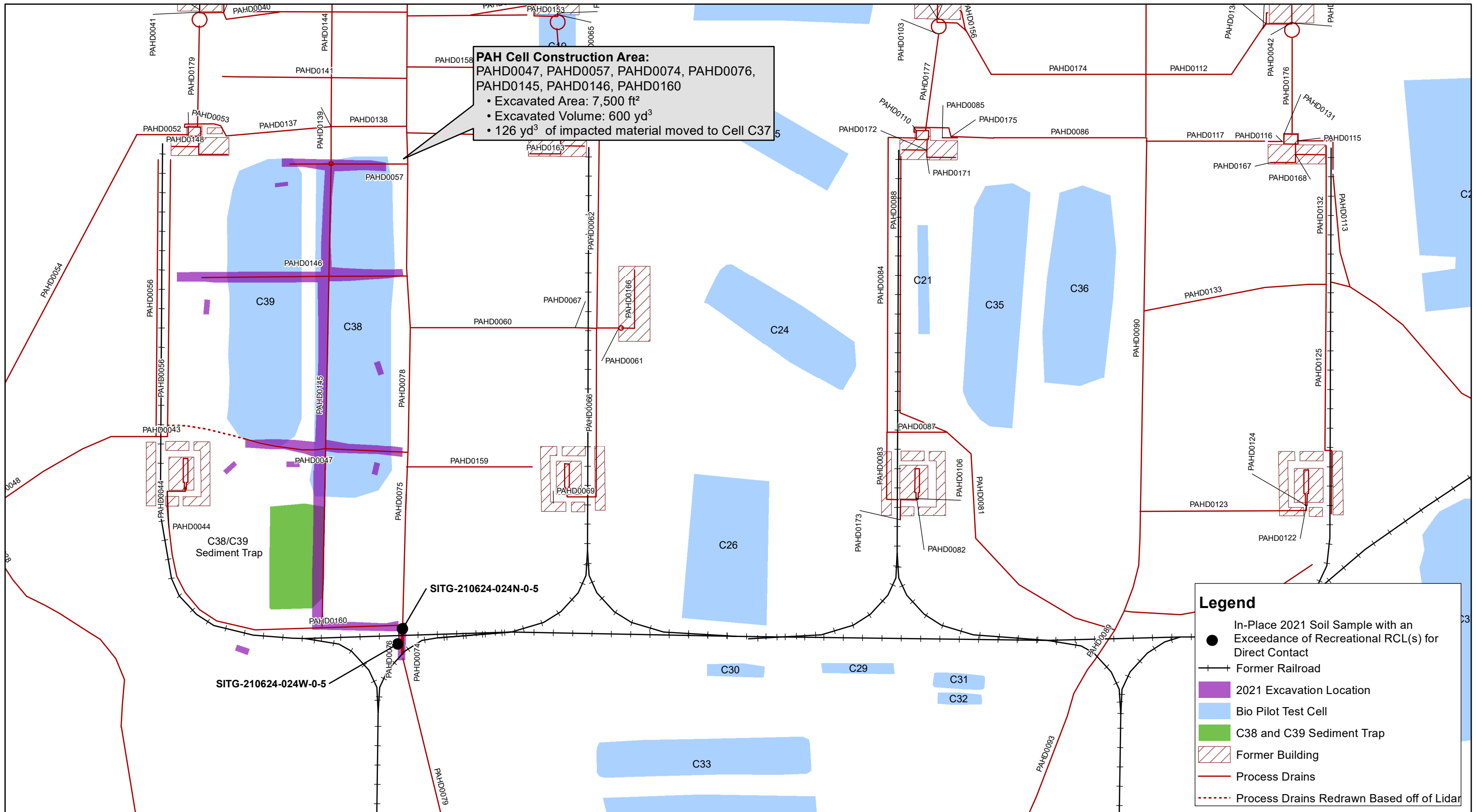
2021 Site Investigation Summary
Former DUPont Barksdale Works
Barksdale, Wisconsin 54806

PROJECT NUMBER:
60660855

DATE:
June 2022

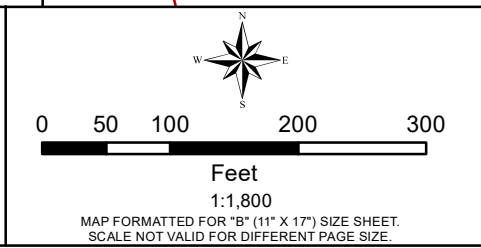
FIGURE NUMBER:
2

C:\Users\demond.nielsen\Desktop\Barksdale\GIS\data\GIS Pioneer Files 1.14.2021\Map\Map 2022_DNU\2021 Site Investigation Report\Fig 5_PAH_2021_Summary.mxd



Notes:

Area Map (Optional)



FILE NUMBER:
 DESIGNED BY: DJN
 DRAWN BY: DJN
 DATA QUALITY CHECK BY: ECS

AECOM
 AECOM
 500 West Jefferson Street
 Suite 1600
 Louisville, Kentucky 40202

2021 PAH Site Investigation Summary
 2021 Site Investigation Summary
 Former DuPont Barksdale Works
 Barksdale, Wisconsin 54806

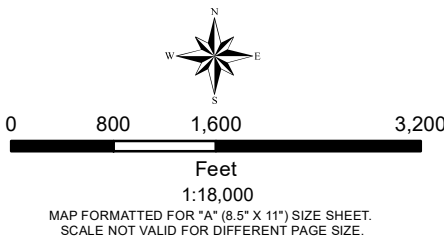
PROJECT NUMBER:
 60660855
 DATE:
 June 2022
 FIGURE NUMBER:
3



Legend

- Sediment Sample
- Surface Water and Sediment Sample
- Well Sampled in 2021
- River/Stream/Creek
- Site Perimeter Fence

Area Map (Optional)



FILE NUMBER:	
DESIGNED BY:	DJN
DRAWN BY:	DJN
DATA QUALITY CHECK BY:	ECS

AECOM

AECOM
500 West Jefferson Street
Suite 1600
Louisville, Kentucky 40202

Water and Sediment Sampling Locations

2021 Site Investigation Summary
Former DuPont Barksdale Works
Barksdale, Wisconsin 54806

PROJECT NUMBER:	60660855
DATE:	June 2022
FIGURE NUMBER:	4

Appendix A: Laboratory Analytical Reports



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 09, 2021

Sharon Nordstrom
AECOM
4051 Ogletown Road
Newark, DE 19713
RE: Site Investigation - Barksdale, WI

Enclosed are the analytical results for the samples received by the laboratory on 06/24/2021.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

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

Sincerely,

Jessica Esser
Project Manager

Certification List

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2022
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2022
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2022
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2022
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2022
NYDOH	New York Department of Health	12110	04/01/2022
TCEQ	Texas Secondary NELAP Accreditation	T104704504-20-11	11/30/2021
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2021

AECOM
 4051 Ogletown Road
 Newark DE, 19713

Project: Site Investigation - Barksdale, WI
 Project Number: 60635957
 Project Manager: Sharon Nordstrom

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SITG-210610-001Y-0-3.5	A212525-01	Soil	06/10/2021	06/24/2021
SITG-210610-002Y-0-3.5	A212525-02	Soil	06/10/2021	06/24/2021
SITG-210610-003Y-0-3.5	A212525-03	Soil	06/10/2021	06/24/2021
SITG-210614-004Y-0-3.5	A212525-04	Soil	06/14/2021	06/24/2021
SITG-210614-005Y-0-3.5	A212525-05	Soil	06/14/2021	06/24/2021
SITG-210614-006Y-0-3.5	A212525-06	Soil	06/14/2021	06/24/2021
SITG-210614-007Y-0-3.5	A212525-07	Soil	06/14/2021	06/24/2021
SITG-210615-008Y-0-3.5	A212525-08	Soil	06/15/2021	06/24/2021
SITG-210615-009Y-0-3.5	A212525-09	Soil	06/15/2021	06/24/2021
SITG-210615-010Y-0-3.5	A212525-10	Soil	06/15/2021	06/24/2021
SITG-210615-001X-0-3	A212525-11	Soil	06/15/2021	06/24/2021
SITG-210615-001X-0-3-D	A212525-12	Soil	06/15/2021	06/24/2021
SITG-210615-002X-0-3	A212525-13	Soil	06/15/2021	06/24/2021
SITG-210615-002X-0-3-D	A212525-14	Soil	06/15/2021	06/24/2021
SITG-210615-003X-0-3	A212525-15	Soil	06/15/2021	06/24/2021
SITG-210615-003X-0-3-D	A212525-16	Soil	06/15/2021	06/24/2021
SITG-210615-004X-0-3	A212525-17	Soil	06/15/2021	06/24/2021
SITG-210615-004X-0-3-D	A212525-18	Soil	06/15/2021	06/24/2021
SITG-210615-005X-0-3	A212525-19	Soil	06/15/2021	06/24/2021
SITG-210615-006X-0-3	A212525-20	Soil	06/15/2021	06/24/2021
SITG-210615-007X-0-3	A212525-21	Soil	06/15/2021	06/24/2021
SITG-210615-008X-0-3	A212525-22	Soil	06/15/2021	06/24/2021
SITG-210615-009X-0-3	A212525-23	Soil	06/15/2021	06/24/2021
SITG-210615-010X-0-3	A212525-24	Soil	06/15/2021	06/24/2021
SITG-210615-011X-0-3	A212525-25	Soil	06/15/2021	06/24/2021
SITG-210615-012X-0-3	A212525-26	Soil	06/15/2021	06/24/2021
SITG-210615-013X-0-3	A212525-27	Soil	06/15/2021	06/24/2021
SITG-210615-011Y-0-3.5	A212525-28	Soil	06/15/2021	06/24/2021
SITG-210615-012Y-0-3.5	A212525-29	Soil	06/15/2021	06/24/2021
SITG-210615-013Y-0-3.5	A212525-30	Soil	06/15/2021	06/24/2021
SITG-210618-014Y-0-3.5	A212525-31	Soil	06/18/2021	06/24/2021
SITG-210618-015C-3-3.5	A212525-32	Soil	06/18/2021	06/24/2021
SITG-210618-015N-0-3	A212525-33	Soil	06/18/2021	06/24/2021
SITG-210618-015S-0-3	A212525-34	Soil	06/18/2021	06/24/2021

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SITG-210618-016C-3-3.5	A212525-35	Soil	06/18/2021	06/24/2021
SITG-210618-016N-0-3	A212525-36	Soil	06/18/2021	06/24/2021
SITG-210618-016S-0-3	A212525-37	Soil	06/18/2021	06/24/2021
SITG-210618-017C-3-3.5	A212525-38	Soil	06/18/2021	06/24/2021
SITG-210618-017N-0-3	A212525-39	Soil	06/18/2021	06/24/2021
SITG-210618-017S-0-3	A212525-40	Soil	06/18/2021	06/24/2021
SITG-210618-018C-3-3.5	A212525-41	Soil	06/18/2021	06/24/2021
SITG-210618-018N-0-3	A212525-42	Soil	06/18/2021	06/24/2021
SITG-210618-018S-0-3	A212525-43	Soil	06/18/2021	06/24/2021
SITG-210618-018E-0-3	A212525-44	Soil	06/18/2021	06/24/2021
SITG-210618-019Y-0-3.5	A212525-45	Soil	06/18/2021	06/24/2021
SITG-210618-020C-3-3.5	A212525-46	Soil	06/18/2021	06/24/2021
SITG-210618-020N-0-3	A212525-47	Soil	06/18/2021	06/24/2021
SITG-210618-020S-0-3	A212525-48	Soil	06/18/2021	06/24/2021
SITG-210618-020E-0-3	A212525-49	Soil	06/18/2021	06/24/2021
SITG-210618-018X-0-3	A212525-50	Soil	06/18/2021	06/24/2021

CASE NARRATIVE

Sample Receipt Information:

50 samples were received on 06/24/2021. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Continuing Calibration Verification (CCV):

The LC footnote on samples A212525-05 through A212525-20 states that there was a low CCV recovery for 1,3,5-Trinitrobenzene. The lower control limit is 70% and the lowest recovery was 62.8%.

The LC footnote on samples A212525-29 through A212525-40 states that there were low CCV recoveries for 1,3,5-Trinitrobenzene and 1,3-Dinitrobenzene. The lower control limit is 70% and the lowest recoveries were 62.5% and 69.3%, respectively.

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210610-001Y-0-3.5

A212525-01 (Soil)

Date Sampled
06/10/2021 16:05

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/01/2021 20:02	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			58.2 %	10-116		07/01/2021	07/01/2021 20:02	EPA 8270D	
Surrogate: Nitrobenzene-d5			93.8 %	67.8-100		07/01/2021	07/01/2021 20:02	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.3	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210610-002Y-0-3.5

Date Sampled

A212525-02 (Soil)

06/10/2021 16:15

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/01/2021 20:33	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			50.0 %	10-116		07/01/2021	07/01/2021 20:33	EPA 8270D	
Surrogate: Nitrobenzene-d5			90.3 %	67.8-100		07/01/2021	07/01/2021 20:33	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.5		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210610-003Y-0-3.5

Date Sampled

A212525-03 (Soil)

06/10/2021 16:25

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
4-Nitrotoluene	ND	5.6	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/01/2021	07/01/2021 21:05	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			49.2 %	10-116		07/01/2021	07/01/2021 21:05	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.9 %	67.8-100		07/01/2021	07/01/2021 21:05	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	97.5		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210614-004Y-0-3.5

Date Sampled
06/14/2021 08:02

A212525-04 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/01/2021 21:37	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			55.5 %	10-116		07/01/2021	07/01/2021 21:37	EPA 8270D	
Surrogate: Nitrobenzene-d5			85.7 %	67.8-100		07/01/2021	07/01/2021 21:37	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	99.0	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210614-005Y-0-3.5

A212525-05 (Soil)

Date Sampled
06/14/2021 08:10

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/01/2021 23:44	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			51.8 %	10-116		07/01/2021	07/01/2021 23:44	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.1 %	67.8-100		07/01/2021	07/01/2021 23:44	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.8		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210614-006Y-0-3.5

A212525-06 (Soil)

Date Sampled
06/14/2021 08:18

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 00:16	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 51.8 % 10-116 07/01/2021 07/02/2021 00:16 EPA 8270D
Surrogate: Nitrobenzene-d5 87.9 % 67.8-100 07/01/2021 07/02/2021 00:16 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.9	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210614-007Y-0-3.5

A212525-07 (Soil)

Date Sampled
06/14/2021 08:26

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/01/2021	07/02/2021 00:48	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 45.1 % 10-116 07/01/2021 07/02/2021 00:48 EPA 8270D
Surrogate: Nitrobenzene-d5 83.5 % 67.8-100 07/01/2021 07/02/2021 00:48 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	97.6	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-008Y-0-3.5

A212525-08 (Soil)

Date Sampled
06/15/2021 11:16

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 01:20	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 55.2 % 10-116 07/01/2021 07/02/2021 01:20 EPA 8270D
Surrogate: Nitrobenzene-d5 84.8 % 67.8-100 07/01/2021 07/02/2021 01:20 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	97.9	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-009Y-0-3.5

A212525-09 (Soil)

Date Sampled
06/15/2021 11:26

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 01:52	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 45.5 % 10-116 07/01/2021 07/02/2021 01:52 EPA 8270D
Surrogate: Nitrobenzene-d5 77.3 % 67.8-100 07/01/2021 07/02/2021 01:52 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.3	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-010Y-0-3.5

A212525-10 (Soil)

Date Sampled
06/15/2021 11:36

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 02:23	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 55.6 % 10-116 07/01/2021 07/02/2021 02:23 EPA 8270D
Surrogate: Nitrobenzene-d5 86.5 % 67.8-100 07/01/2021 07/02/2021 02:23 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.4	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-001X-0-3

Date Sampled

A212525-11 (Soil)

06/15/2021 14:20

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 02:55	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			64.2 %	10-116		07/01/2021	07/02/2021 02:55	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.2 %	67.8-100		07/01/2021	07/02/2021 02:55	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.9		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-001X-0-3-D

A212525-12 (Soil)

Date Sampled
06/15/2021 14:20

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:26	EPA 8270D	

Surrogate: 2,2'-Dinitrophenyl 62.1 % 10-116 07/01/2021 07/02/2021 03:26 EPA 8270D
Surrogate: Nitrobenzene-d5 85.2 % 67.8-100 07/01/2021 07/02/2021 03:26 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	99.0	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-002X-0-3

Date Sampled

A212525-13 (Soil)

06/15/2021 14:22

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 03:58	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 64.8 % 10-116 07/01/2021 07/02/2021 03:58 EPA 8270D

Surrogate: Nitrobenzene-d5 87.3 % 67.8-100 07/01/2021 07/02/2021 03:58 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.9	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-002X-0-3-D

A212525-14 (Soil)

Date Sampled
06/15/2021 14:22

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 04:30	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 59.4 % 10-116 07/01/2021 07/02/2021 04:30 EPA 8270D
Surrogate: Nitrobenzene-d5 79.8 % 67.8-100 07/01/2021 07/02/2021 04:30 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	99.0	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-003X-0-3

Date Sampled
06/15/2021 14:24

A212525-15 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
2,4,6-Trinitrotoluene	160	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	J
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 06:36	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			65.4 %	10-116		07/01/2021	07/02/2021 06:36	EPA 8270D	
Surrogate: Nitrobenzene-d5			84.5 %	67.8-100		07/01/2021	07/02/2021 06:36	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.5		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-003X-0-3-D

A212525-16 (Soil)

Date Sampled
06/15/2021 14:24

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
2,4,6-Trinitrotoluene	170	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 07:08	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			79.3 %	10-116		07/01/2021	07/02/2021 07:08	EPA 8270D	
Surrogate: Nitrobenzene-d5			89.5 %	67.8-100		07/01/2021	07/02/2021 07:08	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.4		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-004X-0-3

A212525-17 (Soil)

Date Sampled
06/15/2021 14:26

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
2,4,6-Trinitrotoluene	250	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
2-Amino-4,6-dinitrotoluene	180	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	J
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
4-Amino-2,6-dinitrotoluene	180	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 07:40	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			75.1 %	10-116		07/01/2021	07/02/2021 07:40	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.1 %	67.8-100		07/01/2021	07/02/2021 07:40	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.8		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-004X-0-3-D

A212525-18 (Soil)

Date Sampled
06/15/2021 14:26

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
2,4,6-Trinitrotoluene	170	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	J
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:12	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			72.0 %	10-116		07/01/2021	07/02/2021 08:12	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.0 %	67.8-100		07/01/2021	07/02/2021 08:12	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	99.0		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-005X-0-3

Date Sampled

A212525-19 (Soil)

06/15/2021 14:28

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 08:44	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 65.9 % 10-116 07/01/2021 07/02/2021 08:44 EPA 8270D

Surrogate: Nitrobenzene-d5 88.1 % 67.8-100 07/01/2021 07/02/2021 08:44 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	98.9	0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-006X-0-3

Date Sampled
06/15/2021 14:30

A212525-20 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107139

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/01/2021	07/02/2021 09:16	EPA 8270D	
Surrogate: 2,2'-Dinitrophenyl			64.4 %	10-116		07/01/2021	07/02/2021 09:16	EPA 8270D	
Surrogate: Nitrobenzene-d5			85.3 %	67.8-100		07/01/2021	07/02/2021 09:16	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107140

% Solids	99.1		0.00	% by Weight	1	07/01/2021	07/02/2021 14:16	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-007X-0-3

Date Sampled

A212525-21 (Soil)

06/15/2021 14:32

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 15:55	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 54.3 % 10-116 07/02/2021 07/02/2021 15:55 EPA 8270D

Surrogate: Nitrobenzene-d5 89.2 % 67.8-100 07/02/2021 07/02/2021 15:55 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.7	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-008X-0-3

Date Sampled

A212525-22 (Soil)

06/15/2021 14:34

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 16:27	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl

70.7 % 10-116

07/02/2021 07/02/2021 16:27 EPA 8270D

Surrogate: Nitrobenzene-d5

91.6 % 67.8-100

07/02/2021 07/02/2021 16:27 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.2	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-009X-0-3

Date Sampled

A212525-23 (Soil)

06/15/2021 14:36

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/02/2021	07/02/2021 16:59	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 54.7 % 10-116 07/02/2021 07/02/2021 16:59 EPA 8270D

Surrogate: Nitrobenzene-d5 93.5 % 67.8-100 07/02/2021 07/02/2021 16:59 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.1	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-010X-0-3

Date Sampled

A212525-24 (Soil)

06/15/2021 14:38

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 17:31	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			57.5 %	10-116		07/02/2021	07/02/2021 17:31	EPA 8270D	
Surrogate: Nitrobenzene-d5			90.3 %	67.8-100		07/02/2021	07/02/2021 17:31	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.6	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-011X-0-3

A212525-25 (Soil)

Date Sampled
06/15/2021 14:40

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 18:03	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 48.4 % 10-116 07/02/2021 07/02/2021 18:03 EPA 8270D
Surrogate: Nitrobenzene-d5 82.5 % 67.8-100 07/02/2021 07/02/2021 18:03 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	97.8	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-012X-0-3

A212525-26 (Soil)

Date Sampled
06/15/2021 14:42

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 18:35	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 54.5 % 10-116 07/02/2021 07/02/2021 18:35 EPA 8270D
Surrogate: Nitrobenzene-d5 91.8 % 67.8-100 07/02/2021 07/02/2021 18:35 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.5	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-013X-0-3

A212525-27 (Soil)

Date Sampled
06/15/2021 14:44

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
2,4,6-Trinitrotoluene	160	3.1	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
2-Amino-4,6-dinitrotoluene	150	3.7	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	J
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 19:07	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			54.8 %	10-116		07/02/2021	07/02/2021 19:07	EPA 8270D	
Surrogate: Nitrobenzene-d5			78.7 %	67.8-100		07/02/2021	07/02/2021 19:07	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.3		0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-011Y-0-3.5

A212525-28 (Soil)

Date Sampled
06/15/2021 11:46

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/02/2021	07/02/2021 19:39	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			51.1 %	10-116		07/02/2021	07/02/2021 19:39	EPA 8270D	
Surrogate: Nitrobenzene-d5			75.4 %	67.8-100		07/02/2021	07/02/2021 19:39	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	97.8		0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-012Y-0-3.5

A212525-29 (Soil)

Date Sampled
06/15/2021 11:56

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 21:47	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl

50.4 % 10-116

07/02/2021 07/02/2021 21:47 EPA 8270D

Surrogate: Nitrobenzene-d5

76.5 % 67.8-100

07/02/2021 07/02/2021 21:47 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	97.9		0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210615-013Y-0-3.5

Date Sampled

A212525-30 (Soil)

06/15/2021 15:08

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:19	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 53.9 % 10-116 07/02/2021 07/02/2021 22:19 EPA 8270D

Surrogate: Nitrobenzene-d5 86.3 % 67.8-100 07/02/2021 07/02/2021 22:19 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	97.5	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-014Y-0-3.5

A212525-31 (Soil)

Date Sampled
06/18/2021 08:50

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/02/2021	07/02/2021 22:51	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			48.3 %	10-116		07/02/2021	07/02/2021 22:51	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.1 %	67.8-100		07/02/2021	07/02/2021 22:51	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	97.9		0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-015C-3-3.5

A212525-32 (Soil)

Date Sampled
06/18/2021 08:58

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
2,4,6-Trinitrotoluene	150	3.1	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 23:23	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 55.7 % 10-116 07/02/2021 07/02/2021 23:23 EPA 8270D
Surrogate: Nitrobenzene-d5 86.2 % 67.8-100 07/02/2021 07/02/2021 23:23 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	99.4	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-015N-0-3

A212525-33 (Soil)

Date Sampled
06/18/2021 09:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/02/2021 23:55	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl

48.5 % 10-116

07/02/2021 07/02/2021 23:55 EPA 8270D

Surrogate: Nitrobenzene-d5

87.0 % 67.8-100

07/02/2021 07/02/2021 23:55 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	97.6	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-015S-0-3

A212525-34 (Soil)

Date Sampled
06/18/2021 09:02

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
3-Nitrotoluene	ND	5.4	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/02/2021	07/03/2021 00:27	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 47.6 % 10-116 07/02/2021 07/03/2021 00:27 EPA 8270D
Surrogate: Nitrobenzene-d5 88.2 % 67.8-100 07/02/2021 07/03/2021 00:27 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	96.7	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-016C-3-3.5

A212525-35 (Soil)

Date Sampled
06/18/2021 09:06

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
2,4,6-Trinitrotoluene	190	3.1	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
2-Amino-4,6-dinitrotoluene	150	3.7	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	J
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 00:59	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			54.0 %	10-116		07/02/2021	07/03/2021 00:59	EPA 8270D	
Surrogate: Nitrobenzene-d5			84.0 %	67.8-100		07/02/2021	07/03/2021 00:59	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	99.5	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-016N-0-3

A212525-36 (Soil)

Date Sampled
06/18/2021 09:08

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
2,4,6-Trinitrotoluene	160	3.1	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
2-Amino-4,6-dinitrotoluene	150	3.7	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 01:31	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			53.7 %	10-116		07/02/2021	07/03/2021 01:31	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.9 %	67.8-100		07/02/2021	07/03/2021 01:31	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.0		0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-016S-0-3

A212525-37 (Soil)

Date Sampled
06/18/2021 09:10

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:02	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 49.6 % 10-116 07/02/2021 07/03/2021 02:02 EPA 8270D
Surrogate: Nitrobenzene-d5 87.6 % 67.8-100 07/02/2021 07/03/2021 02:02 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.0	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-017C-3-3.5

A212525-38 (Soil)

Date Sampled
06/18/2021 09:14

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 02:34	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 44.1 % 10-116 07/02/2021 07/03/2021 02:34 EPA 8270D

Surrogate: Nitrobenzene-d5 79.0 % 67.8-100 07/02/2021 07/03/2021 02:34 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	99.6	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-017N-0-3

A212525-39 (Soil)

Date Sampled
06/18/2021 09:16

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 04:42	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 47.3 % 10-116 07/02/2021 07/03/2021 04:42 EPA 8270D

Surrogate: Nitrobenzene-d5 88.8 % 67.8-100 07/02/2021 07/03/2021 04:42 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.8	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-017S-0-3

A212525-40 (Soil)

Date Sampled
06/18/2021 09:18

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107148

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	LC
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/02/2021	07/03/2021 05:14	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 53.4 % 10-116 07/02/2021 07/03/2021 05:14 EPA 8270D
Surrogate: Nitrobenzene-d5 91.5 % 67.8-100 07/02/2021 07/03/2021 05:14 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107147

% Solids	98.9	0.00	% by Weight	1	07/02/2021	07/03/2021 11:30	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-018C-3-3.5

A212525-41 (Soil)

Date Sampled
06/18/2021 09:22

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:25	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 49.6 % 10-116 07/06/2021 07/06/2021 19:25 EPA 8270D
Surrogate: Nitrobenzene-d5 86.5 % 67.8-100 07/06/2021 07/06/2021 19:25 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	99.7	0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-018N-0-3

Date Sampled
06/18/2021 09:24

A212525-42 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
2,4,6-Trinitrotoluene	180	3.1	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	J
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 19:57	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			57.7 %	10-116		07/06/2021	07/06/2021 19:57	EPA 8270D	
Surrogate: Nitrobenzene-d5			85.6 %	67.8-100		07/06/2021	07/06/2021 19:57	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	99.1		0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-018S-0-3

A212525-43 (Soil)

Date Sampled
06/18/2021 09:26

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 20:29	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 52.3 % 10-116 07/06/2021 07/06/2021 20:29 EPA 8270D

Surrogate: Nitrobenzene-d5 85.7 % 67.8-100 07/06/2021 07/06/2021 20:29 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	98.6	0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-018E-0-3

Date Sampled
06/18/2021 09:28

A212525-44 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
2,4,6-Trinitrotoluene	200	3.1	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.7	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	J
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 21:01	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			57.3 %	10-116		07/06/2021	07/06/2021 21:01	EPA 8270D	
Surrogate: Nitrobenzene-d5			88.2 %	67.8-100		07/06/2021	07/06/2021 21:01	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	99.1		0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-019Y-0-3.5

A212525-45 (Soil)

Date Sampled
06/18/2021 09:32

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 21:33	EPA 8270D	

Surrogate: 2,2'-Dinitrophenyl		48.7 %	10-116			07/06/2021	07/06/2021 21:33	EPA 8270D	
Surrogate: Nitrobenzene-d5		85.2 %	67.8-100			07/06/2021	07/06/2021 21:33	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	98.5	0.00	% by Weight	1		07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-020C-3-3.5

A212525-46 (Soil)

Date Sampled
06/18/2021 09:40

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/06/2021 22:05	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			49.7 %	10-116		07/06/2021	07/06/2021 22:05	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.6 %	67.8-100		07/06/2021	07/06/2021 22:05	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	99.0		0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-020N-0-3

A212525-47 (Soil)

Date Sampled
06/18/2021 09:42

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
2,4,6-Trinitrotoluene	12000	13	820	ug/kg dry	4	07/06/2021	07/08/2021 07:13	EPA 8270D	D
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
2-Amino-4,6-dinitrotoluene	560	3.8	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
4-Amino-2,6-dinitrotoluene	400	2.8	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/06/2021 22:37	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			82.2 %	10-116		07/06/2021	07/06/2021 22:37	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.6 %	67.8-100		07/06/2021	07/06/2021 22:37	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	97.9		0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-020S-0-3

A212525-48 (Soil)

Date Sampled
06/18/2021 09:44

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/06/2021 23:09	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			47.8 %	10-116		07/06/2021	07/06/2021 23:09	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.1 %	67.8-100		07/06/2021	07/06/2021 23:09	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	97.9		0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-020E-0-3

A212525-49 (Soil)

Date Sampled
06/18/2021 09:46

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
2,4,6-Trinitrotoluene	260	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
2-Amino-4,6-dinitrotoluene	180	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
4-Amino-2,6-dinitrotoluene	190	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 01:16	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			58.2 %	10-116		07/06/2021	07/07/2021 01:16	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.8 %	67.8-100		07/06/2021	07/07/2021 01:16	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	98.4		0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

SITG-210618-018X-0-3

A212525-50 (Soil)

Date Sampled
06/18/2021 09:30

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
2,4,6-Trinitrotoluene	4500	3.1	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
2,4-Dinitrotoluene	140	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	J
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
2-Amino-4,6-dinitrotoluene	330	3.7	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
4-Amino-2,6-dinitrotoluene	310	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 01:48	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			87.7 %	10-116		07/06/2021	07/07/2021 01:48	EPA 8270D	
Surrogate: Nitrobenzene-d5			91.6 %	67.8-100		07/06/2021	07/07/2021 01:48	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	98.8	0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107139 - EPA 3570

Blank (A107139-BLK1)

Prepared: 07/01/2021 Analyzed: 07/01/2021 16:50

1,2-Dimethyl-3,4-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,5-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,6-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-4,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,6-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
2,3-Dinitrotoluene	ND	200	ug/kg wet							
2,4,6-Trinitrotoluene	ND	200	ug/kg wet							
2,4-Dinitrotoluene	ND	200	ug/kg wet							
2,5-Dinitrotoluene	ND	200	ug/kg wet							
2,6-Dinitrotoluene	ND	200	ug/kg wet							
2-Amino-4,6-dinitrotoluene	ND	200	ug/kg wet							
2-Nitrotoluene	ND	200	ug/kg wet							
3,4-Dinitrotoluene	ND	200	ug/kg wet							
3,5-Dinitroaniline	ND	200	ug/kg wet							
3,5-Dinitrotoluene	ND	200	ug/kg wet							
3-Nitrotoluene	ND	200	ug/kg wet							
4-Amino-2,6-dinitrotoluene	ND	200	ug/kg wet							
4-Nitrotoluene	ND	200	ug/kg wet							
Nitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitro-2,4-dimethylbenzene	ND	200	ug/kg wet							
<i>Surrogate: 2,2'-Dinitrophenyl</i>	<i>1050</i>		<i>ug/kg wet</i>	<i>1932</i>		<i>54.6</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1770</i>		<i>ug/kg wet</i>	<i>1988</i>		<i>89.2</i>	<i>67.8-100</i>			

LCS (A107139-BS1)

Prepared: 07/01/2021 Analyzed: 07/01/2021 17:54

1,2-Dimethyl-3,4-Dinitrobenzene	1760	200	ug/kg wet	1988		88.5	78.3-107			
1,2-Dimethyl-3,5-Dinitrobenzene	1690	200	ug/kg wet	2012		84.2	74.3-103			
1,2-Dimethyl-3,6-Dinitrobenzene	1750	200	ug/kg wet	1991		88.0	79.8-108			
1,2-Dimethyl-4,5-Dinitrobenzene	1650	200	ug/kg wet	2018		81.6	74.3-108			
1,3,5-Trinitrobenzene	1440	200	ug/kg wet	1992		72.3	45.5-107			
1,3-Dimethyl-2,4-Dinitrobenzene	1670	200	ug/kg wet	2012		82.8	75-106			
1,3-Dimethyl-2,5-Dinitrobenzene	1740	200	ug/kg wet	1994		87.2	78.9-108			
1,3-Dinitrobenzene	1440	200	ug/kg wet	1992		72.5	55.8-108			
1,4-Dimethyl-2,3-Dinitrobenzene	1710	200	ug/kg wet	1998		85.4	77-107			
1,4-Dimethyl-2,5-Dinitrobenzene	1690	200	ug/kg wet	2018		83.8	75.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1710	200	ug/kg wet	1988		86.2	77.8-107			
1,5-Dimethyl-2,3-Dinitrobenzene	1690	200	ug/kg wet	2004		84.5	75.4-107			
1,5-Dimethyl-2,4-Dinitrobenzene	1660	200	ug/kg wet	1958		84.7	75-108			
2,3-Dinitrotoluene	1600	200	ug/kg wet	1992		80.5	69.8-112			
2,4,6-Trinitrotoluene	1720	200	ug/kg wet	1992		86.2	63.4-111			

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107139 - EPA 3570

LCS (A107139-BS1)

Prepared: 07/01/2021 Analyzed: 07/01/2021 17:54

2,4-Dinitrotoluene	1740	200	ug/kg wet	1992		87.4	69.4-113			
2,5-Dinitrotoluene	1590	200	ug/kg wet	1992		79.7	67-107			
2,6-Dinitrotoluene	1690	200	ug/kg wet	1992		84.7	75.3-108			
2-Amino-4,6-dinitrotoluene	1620	200	ug/kg wet	1992		81.1	61.9-106			
2-Nitrotoluene	1690	200	ug/kg wet	1992		85.0	75.3-111			
3,4-Dinitrotoluene	1710	100	ug/kg wet	1992		85.6	72.4-108			D
3,5-Dinitroaniline	1620	200	ug/kg wet	1992		81.5	61-107			
3,5-Dinitrotoluene	1710	200	ug/kg wet	1992		85.7	72.2-111			
3-Nitrotoluene	1670	200	ug/kg wet	1992		83.6	77.4-107			
4-Amino-2,6-dinitrotoluene	1480	200	ug/kg wet	1992		74.1	51.7-110			
4-Nitrotoluene	1690	200	ug/kg wet	1992		85.1	79.1-108			
Nitrobenzene	1740	200	ug/kg wet	1992		87.4	80.5-109			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1560</i>		<i>ug/kg wet</i>	<i>1935</i>		<i>80.7</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1620</i>		<i>ug/kg wet</i>	<i>1992</i>		<i>81.4</i>	<i>67.8-100</i>			

Matrix Spike (A107139-MS1)

Source: A212525-01

Prepared: 07/01/2021 Analyzed: 07/02/2021 09:48

1,2-Dimethyl-3,4-Dinitrobenzene	1880	200	ug/kg dry	2026	ND	92.7	70.9-106			
1,2-Dimethyl-3,5-Dinitrobenzene	1760	200	ug/kg dry	2051	ND	86.0	68.2-104			
1,2-Dimethyl-3,6-Dinitrobenzene	1930	200	ug/kg dry	2029	ND	94.9	75.9-109			
1,2-Dimethyl-4,5-Dinitrobenzene	1840	200	ug/kg dry	2057	ND	89.6	65-112			
1,3,5-Trinitrobenzene	1240	200	ug/kg dry	2030	ND	61.3	37.4-108			
1,3-Dimethyl-2,4-Dinitrobenzene	1880	200	ug/kg dry	2051	ND	91.8	69.5-109			
1,3-Dimethyl-2,5-Dinitrobenzene	1910	200	ug/kg dry	2032	ND	93.9	76.2-108			
1,3-Dinitrobenzene	1550	200	ug/kg dry	2030	ND	76.3	50.2-106			
1,4-Dimethyl-2,3-Dinitrobenzene	1900	200	ug/kg dry	2037	ND	93.3	72.3-106			
1,4-Dimethyl-2,5-Dinitrobenzene	1900	200	ug/kg dry	2057	ND	92.3	71.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1890	200	ug/kg dry	2026	ND	93.3	74-108			
1,5-Dimethyl-2,3-Dinitrobenzene	1870	200	ug/kg dry	2043	ND	91.6	67.9-106			
1,5-Dimethyl-2,4-Dinitrobenzene	1880	200	ug/kg dry	1996	ND	94.0	69.2-109			
2,3-Dinitrotoluene	1950	200	ug/kg dry	2030	ND	96.0	66.9-107			
2,4,6-Trinitrotoluene	1740	200	ug/kg dry	2030	ND	85.7	20.9-161			
2,4-Dinitrotoluene	1690	200	ug/kg dry	2030	ND	83.3	63.6-113			
2,5-Dinitrotoluene	1760	200	ug/kg dry	2030	ND	86.8	61.4-109			
2,6-Dinitrotoluene	1810	200	ug/kg dry	2030	ND	88.9	68-110			
2-Amino-4,6-dinitrotoluene	1870	200	ug/kg dry	2030	ND	92.3	31-124			
2-Nitrotoluene	1870	200	ug/kg dry	2030	ND	92.3	70.7-115			
3,4-Dinitrotoluene	1800	100	ug/kg dry	2030	ND	88.7	70-104			D
3,5-Dinitroaniline	1760	200	ug/kg dry	2030	ND	86.7	41.8-112			
3,5-Dinitrotoluene	1870	200	ug/kg dry	2030	ND	92.2	68.4-110			
3-Nitrotoluene	1860	200	ug/kg dry	2030	ND	91.7	74.4-110			
4-Amino-2,6-dinitrotoluene	1790	200	ug/kg dry	2030	ND	88.0	27.9-131			
4-Nitrotoluene	1870	200	ug/kg dry	2030	ND	92.3	75.5-110			
Nitrobenzene	1880	200	ug/kg dry	2030	ND	92.4	76.1-111			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1870</i>		<i>ug/kg dry</i>	<i>1973</i>		<i>94.6</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1810</i>		<i>ug/kg dry</i>	<i>2030</i>		<i>89.4</i>	<i>67.8-100</i>			

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Newark DE, 19713

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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107139 - EPA 3570

Matrix Spike Dup (A107139-MSD1)

Source: A212525-01

Prepared: 07/01/2021

Analyzed: 07/02/2021 10:20

1,2-Dimethyl-3,4-Dinitrobenzene	1890	200	ug/kg dry	2022	ND	93.5	70.9-106	0.723	20	
1,2-Dimethyl-3,5-Dinitrobenzene	1910	200	ug/kg dry	2047	ND	93.1	68.2-104	7.71	20	
1,2-Dimethyl-3,6-Dinitrobenzene	1970	200	ug/kg dry	2025	ND	97.4	75.9-109	2.43	20	
1,2-Dimethyl-4,5-Dinitrobenzene	1870	200	ug/kg dry	2053	ND	91.1	65-112	1.50	20	
1,3,5-Trinitrobenzene	1490	200	ug/kg dry	2026	ND	73.7	37.4-108	18.2	20	
1,3-Dimethyl-2,4-Dinitrobenzene	1950	200	ug/kg dry	2047	ND	95.4	69.5-109	3.70	20	
1,3-Dimethyl-2,5-Dinitrobenzene	1940	200	ug/kg dry	2028	ND	95.7	76.2-108	1.74	20	
1,3-Dinitrobenzene	1770	200	ug/kg dry	2026	ND	87.2	50.2-106	13.1	20	
1,4-Dimethyl-2,3-Dinitrobenzene	1920	200	ug/kg dry	2033	ND	94.4	72.3-106	1.02	20	
1,4-Dimethyl-2,5-Dinitrobenzene	1940	200	ug/kg dry	2053	ND	94.4	71.6-108	2.06	20	
1,4-Dimethyl-2,6-Dinitrobenzene	1960	200	ug/kg dry	2022	ND	96.9	74-108	3.62	20	
1,5-Dimethyl-2,3-Dinitrobenzene	1870	200	ug/kg dry	2039	ND	92.0	67.9-106	0.184	20	
1,5-Dimethyl-2,4-Dinitrobenzene	1970	200	ug/kg dry	1992	ND	98.7	69.2-109	4.68	20	
2,3-Dinitrotoluene	1800	200	ug/kg dry	2026	ND	89.1	66.9-107	7.66	20	
2,4,6-Trinitrotoluene	1910	200	ug/kg dry	2026	ND	94.4	20.9-161	9.40	20	
2,4-Dinitrotoluene	1960	200	ug/kg dry	2026	ND	96.8	63.6-113	14.7	20	
2,5-Dinitrotoluene	1910	200	ug/kg dry	2026	ND	94.1	61.4-109	7.84	20	
2,6-Dinitrotoluene	1870	200	ug/kg dry	2026	ND	92.1	68-110	3.29	20	
2-Amino-4,6-dinitrotoluene	2010	200	ug/kg dry	2026	ND	99.4	31-124	7.17	20	
2-Nitrotoluene	1930	200	ug/kg dry	2026	ND	95.4	70.7-115	3.18	20	
3,4-Dinitrotoluene	1880	100	ug/kg dry	2026	ND	92.7	70-104	4.23	20	D
3,5-Dinitroaniline	1930	200	ug/kg dry	2026	ND	95.3	41.8-112	9.22	20	
3,5-Dinitrotoluene	1960	200	ug/kg dry	2026	ND	96.9	68.4-110	4.78	20	
3-Nitrotoluene	1930	200	ug/kg dry	2026	ND	95.3	74.4-110	3.62	20	
4-Amino-2,6-dinitrotoluene	1980	200	ug/kg dry	2026	ND	97.8	27.9-131	10.4	20	
4-Nitrotoluene	1940	200	ug/kg dry	2026	ND	95.7	75.5-110	3.42	20	
Nitrobenzene	1910	200	ug/kg dry	2026	ND	94.5	76.1-111	1.97	20	
Surrogate: 2,2'-Dinitrobiphenyl	1950		ug/kg dry	1969		99.0	10-116			
Surrogate: Nitrobenzene-d5	1870		ug/kg dry	2026		92.3	67.8-100			

AECOM
4051 Ogletown Road
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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107148 - EPA 3570

Blank (A107148-BLK1)

Prepared: 07/02/2021 Analyzed: 07/02/2021 14:51

1,2-Dimethyl-3,4-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,5-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,6-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-4,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,6-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
2,3-Dinitrotoluene	ND	200	ug/kg wet							
2,4,6-Trinitrotoluene	ND	200	ug/kg wet							
2,4-Dinitrotoluene	ND	200	ug/kg wet							
2,5-Dinitrotoluene	ND	200	ug/kg wet							
2,6-Dinitrotoluene	ND	200	ug/kg wet							
2-Amino-4,6-dinitrotoluene	ND	200	ug/kg wet							
2-Nitrotoluene	ND	200	ug/kg wet							
3,4-Dinitrotoluene	ND	200	ug/kg wet							
3,5-Dinitroaniline	ND	200	ug/kg wet							
3,5-Dinitrotoluene	ND	200	ug/kg wet							
3-Nitrotoluene	ND	200	ug/kg wet							
4-Amino-2,6-dinitrotoluene	ND	200	ug/kg wet							
4-Nitrotoluene	ND	200	ug/kg wet							
Nitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitro-2,4-dimethylbenzene	ND	200	ug/kg wet							
<i>Surrogate: 2,2'-Dinitrophenyl</i>	<i>1010</i>		<i>ug/kg wet</i>	<i>1939</i>		<i>51.8</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1770</i>		<i>ug/kg wet</i>	<i>1996</i>		<i>88.9</i>	<i>67.8-100</i>			

LCS (A107148-BS1)

Prepared: 07/02/2021 Analyzed: 07/03/2021 06:50

1,2-Dimethyl-3,4-Dinitrobenzene	1910	200	ug/kg wet	1996		95.9	78.3-107			
1,2-Dimethyl-3,5-Dinitrobenzene	1870	200	ug/kg wet	2020		92.4	74.3-103			
1,2-Dimethyl-3,6-Dinitrobenzene	2000	200	ug/kg wet	1999		100	79.8-108			
1,2-Dimethyl-4,5-Dinitrobenzene	1940	200	ug/kg wet	2026		95.8	74.3-108			
1,3,5-Trinitrobenzene	1390	200	ug/kg wet	2000		69.3	45.5-107			
1,3-Dimethyl-2,4-Dinitrobenzene	1900	200	ug/kg wet	2020		93.9	75-106			
1,3-Dimethyl-2,5-Dinitrobenzene	1940	200	ug/kg wet	2002		97.1	78.9-108			
1,3-Dinitrobenzene	1560	200	ug/kg wet	2000		77.8	55.8-108			
1,4-Dimethyl-2,3-Dinitrobenzene	1970	200	ug/kg wet	2006		98.3	77-107			
1,4-Dimethyl-2,5-Dinitrobenzene	1910	200	ug/kg wet	2026		94.2	75.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1930	200	ug/kg wet	1996		96.9	77.8-107			
1,5-Dimethyl-2,3-Dinitrobenzene	1900	200	ug/kg wet	2012		94.2	75.4-107			
1,5-Dimethyl-2,4-Dinitrobenzene	1890	200	ug/kg wet	1966		96.3	75-108			
2,3-Dinitrotoluene	1850	200	ug/kg wet	2000		92.4	69.8-112			
2,4,6-Trinitrotoluene	1750	200	ug/kg wet	2000		87.6	63.4-111			

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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107148 - EPA 3570

LCS (A107148-BS1)

Prepared: 07/02/2021 Analyzed: 07/03/2021 06:50

2,4-Dinitrotoluene	1900	200	ug/kg wet	2000		95.2	69.4-113			
2,5-Dinitrotoluene	1780	200	ug/kg wet	2000		89.1	67-107			
2,6-Dinitrotoluene	1840	200	ug/kg wet	2000		92.0	75.3-108			
2-Amino-4,6-dinitrotoluene	1810	200	ug/kg wet	2000		90.7	61.9-106			
2-Nitrotoluene	1850	200	ug/kg wet	2000		92.5	75.3-111			
3,4-Dinitrotoluene	1930	100	ug/kg wet	2000		96.7	72.4-108			D
3,5-Dinitroaniline	1720	200	ug/kg wet	2000		86.0	61-107			
3,5-Dinitrotoluene	1910	200	ug/kg wet	2000		95.3	72.2-111			
3-Nitrotoluene	1800	200	ug/kg wet	2000		90.1	77.4-107			
4-Amino-2,6-dinitrotoluene	1770	200	ug/kg wet	2000		88.3	51.7-110			
4-Nitrotoluene	1810	200	ug/kg wet	2000		90.6	79.1-108			
Nitrobenzene	1840	200	ug/kg wet	2000		92.2	80.5-109			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1850</i>		<i>ug/kg wet</i>	<i>1943</i>		<i>95.4</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1750</i>		<i>ug/kg wet</i>	<i>2000</i>		<i>87.3</i>	<i>67.8-100</i>			

Matrix Spike (A107148-MS1)

Source: A212525-21

Prepared: 07/02/2021 Analyzed: 07/03/2021 05:46

1,2-Dimethyl-3,4-Dinitrobenzene	1960	200	ug/kg dry	2021	ND	97.1	70.9-106			
1,2-Dimethyl-3,5-Dinitrobenzene	1890	200	ug/kg dry	2046	ND	92.5	68.2-104			
1,2-Dimethyl-3,6-Dinitrobenzene	1990	200	ug/kg dry	2025	ND	98.4	75.9-109			
1,2-Dimethyl-4,5-Dinitrobenzene	1960	200	ug/kg dry	2052	ND	95.6	65-112			
1,3,5-Trinitrobenzene	1350	200	ug/kg dry	2026	ND	66.6	37.4-108			
1,3-Dimethyl-2,4-Dinitrobenzene	1900	200	ug/kg dry	2046	ND	92.7	69.5-109			
1,3-Dimethyl-2,5-Dinitrobenzene	1950	200	ug/kg dry	2028	ND	96.0	76.2-108			
1,3-Dinitrobenzene	1490	200	ug/kg dry	2026	ND	73.4	50.2-106			
1,4-Dimethyl-2,3-Dinitrobenzene	1940	200	ug/kg dry	2032	ND	95.5	72.3-106			
1,4-Dimethyl-2,5-Dinitrobenzene	1870	200	ug/kg dry	2052	ND	91.3	71.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1930	200	ug/kg dry	2021	ND	95.4	74-108			
1,5-Dimethyl-2,3-Dinitrobenzene	1910	200	ug/kg dry	2038	ND	93.6	67.9-106			
1,5-Dimethyl-2,4-Dinitrobenzene	1880	200	ug/kg dry	1991	ND	94.3	69.2-109			
2,3-Dinitrotoluene	1880	200	ug/kg dry	2026	ND	92.9	66.9-107			
2,4,6-Trinitrotoluene	1790	200	ug/kg dry	2026	ND	88.4	20.9-161			
2,4-Dinitrotoluene	1830	200	ug/kg dry	2026	ND	90.3	63.6-113			
2,5-Dinitrotoluene	1750	200	ug/kg dry	2026	ND	86.4	61.4-109			
2,6-Dinitrotoluene	1830	200	ug/kg dry	2026	ND	90.5	68-110			
2-Amino-4,6-dinitrotoluene	1790	200	ug/kg dry	2026	ND	88.3	31-124			
2-Nitrotoluene	1870	200	ug/kg dry	2026	ND	92.4	70.7-115			
3,4-Dinitrotoluene	1880	100	ug/kg dry	2026	ND	92.7	70-104			D
3,5-Dinitroaniline	1700	200	ug/kg dry	2026	ND	84.1	41.8-112			
3,5-Dinitrotoluene	1890	200	ug/kg dry	2026	ND	93.2	68.4-110			
3-Nitrotoluene	1810	200	ug/kg dry	2026	ND	89.2	74.4-110			
4-Amino-2,6-dinitrotoluene	1730	200	ug/kg dry	2026	ND	85.3	27.9-131			
4-Nitrotoluene	1840	200	ug/kg dry	2026	ND	91.0	75.5-110			
Nitrobenzene	1850	200	ug/kg dry	2026	ND	91.5	76.1-111			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1930</i>		<i>ug/kg dry</i>	<i>1968</i>		<i>98.0</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1790</i>		<i>ug/kg dry</i>	<i>2026</i>		<i>88.2</i>	<i>67.8-100</i>			

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107148 - EPA 3570

Matrix Spike Dup (A107148-MSD1)

Source: A212525-21

Prepared: 07/02/2021

Analyzed: 07/03/2021 06:18

1,2-Dimethyl-3,4-Dinitrobenzene	1970	200	ug/kg dry	2017	ND	97.7	70.9-106	0.422	20	
1,2-Dimethyl-3,5-Dinitrobenzene	1910	200	ug/kg dry	2042	ND	93.5	68.2-104	0.854	20	
1,2-Dimethyl-3,6-Dinitrobenzene	2030	200	ug/kg dry	2020	ND	100	75.9-109	1.69	20	
1,2-Dimethyl-4,5-Dinitrobenzene	1970	200	ug/kg dry	2048	ND	96.0	65-112	0.186	20	
1,3,5-Trinitrobenzene	1450	200	ug/kg dry	2021	ND	71.7	37.4-108	7.19	20	
1,3-Dimethyl-2,4-Dinitrobenzene	1930	200	ug/kg dry	2042	ND	94.7	69.5-109	1.92	20	
1,3-Dimethyl-2,5-Dinitrobenzene	1980	200	ug/kg dry	2024	ND	97.8	76.2-108	1.61	20	
1,3-Dinitrobenzene	1600	200	ug/kg dry	2021	ND	79.1	50.2-106	7.29	20	
1,4-Dimethyl-2,3-Dinitrobenzene	1970	200	ug/kg dry	2028	ND	97.0	72.3-106	1.42	20	
1,4-Dimethyl-2,5-Dinitrobenzene	1930	200	ug/kg dry	2048	ND	94.2	71.6-108	3.03	20	
1,4-Dimethyl-2,6-Dinitrobenzene	1940	200	ug/kg dry	2017	ND	96.1	74-108	0.563	20	
1,5-Dimethyl-2,3-Dinitrobenzene	1910	200	ug/kg dry	2034	ND	94.0	67.9-106	0.204	20	
1,5-Dimethyl-2,4-Dinitrobenzene	1920	200	ug/kg dry	1987	ND	96.6	69.2-109	2.15	20	
2,3-Dinitrotoluene	1910	200	ug/kg dry	2021	ND	94.7	66.9-107	1.66	20	
2,4,6-Trinitrotoluene	1820	200	ug/kg dry	2021	ND	90.0	20.9-161	1.63	20	
2,4-Dinitrotoluene	1870	200	ug/kg dry	2021	ND	92.3	63.6-113	1.95	20	
2,5-Dinitrotoluene	1830	200	ug/kg dry	2021	ND	90.7	61.4-109	4.66	20	
2,6-Dinitrotoluene	1860	200	ug/kg dry	2021	ND	92.1	68-110	1.57	20	
2-Amino-4,6-dinitrotoluene	1910	200	ug/kg dry	2021	ND	94.4	31-124	6.43	20	
2-Nitrotoluene	1890	200	ug/kg dry	2021	ND	93.5	70.7-115	0.978	20	
3,4-Dinitrotoluene	1890	100	ug/kg dry	2021	ND	93.7	70-104	0.837	20	D
3,5-Dinitroaniline	1780	200	ug/kg dry	2021	ND	87.9	41.8-112	4.25	20	
3,5-Dinitrotoluene	1940	200	ug/kg dry	2021	ND	96.1	68.4-110	2.87	20	
3-Nitrotoluene	1850	200	ug/kg dry	2021	ND	91.7	74.4-110	2.49	20	
4-Amino-2,6-dinitrotoluene	1850	200	ug/kg dry	2021	ND	91.5	27.9-131	6.91	20	
4-Nitrotoluene	1860	200	ug/kg dry	2021	ND	92.0	75.5-110	0.885	20	
Nitrobenzene	1860	200	ug/kg dry	2021	ND	91.9	76.1-111	0.213	20	
Surrogate: 2,2'-Dinitrobiphenyl	1930		ug/kg dry	1964		98.3	10-116			
Surrogate: Nitrobenzene-d5	1820		ug/kg dry	2021		89.8	67.8-100			

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107163 - EPA 3570

Blank (A107163-BLK1)

Prepared: 07/06/2021 Analyzed: 07/06/2021 18:21

1,2-Dimethyl-3,4-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,5-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,6-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-4,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,6-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
2,3-Dinitrotoluene	ND	200	ug/kg wet							
2,4,6-Trinitrotoluene	ND	200	ug/kg wet							
2,4-Dinitrotoluene	ND	200	ug/kg wet							
2,5-Dinitrotoluene	ND	200	ug/kg wet							
2,6-Dinitrotoluene	ND	200	ug/kg wet							
2-Amino-4,6-dinitrotoluene	ND	200	ug/kg wet							
2-Nitrotoluene	ND	200	ug/kg wet							
3,4-Dinitrotoluene	ND	200	ug/kg wet							
3,5-Dinitroaniline	ND	200	ug/kg wet							
3,5-Dinitrotoluene	ND	200	ug/kg wet							
3-Nitrotoluene	ND	200	ug/kg wet							
4-Amino-2,6-dinitrotoluene	ND	200	ug/kg wet							
4-Nitrotoluene	ND	200	ug/kg wet							
Nitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitro-2,4-dimethylbenzene	ND	200	ug/kg wet							
<i>Surrogate: 2,2'-Dinitrophenyl</i>	<i>1160</i>		<i>ug/kg wet</i>	<i>1932</i>		<i>59.8</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1840</i>		<i>ug/kg wet</i>	<i>1988</i>		<i>92.4</i>	<i>67.8-100</i>			

LCS (A107163-BS1)

Prepared: 07/06/2021 Analyzed: 07/07/2021 06:03

1,2-Dimethyl-3,4-Dinitrobenzene	1910	200	ug/kg wet	1984		96.5	78.3-107			
1,2-Dimethyl-3,5-Dinitrobenzene	1870	200	ug/kg wet	2008		93.2	74.3-103			
1,2-Dimethyl-3,6-Dinitrobenzene	1980	200	ug/kg wet	1987		99.6	79.8-108			
1,2-Dimethyl-4,5-Dinitrobenzene	1890	200	ug/kg wet	2014		93.8	74.3-108			
1,3,5-Trinitrobenzene	1430	200	ug/kg wet	1988		72.1	45.5-107			
1,3-Dimethyl-2,4-Dinitrobenzene	1880	200	ug/kg wet	2008		93.4	75-106			
1,3-Dimethyl-2,5-Dinitrobenzene	1890	200	ug/kg wet	1990		95.1	78.9-108			
1,3-Dinitrobenzene	1580	200	ug/kg wet	1988		79.4	55.8-108			
1,4-Dimethyl-2,3-Dinitrobenzene	1900	200	ug/kg wet	1994		95.2	77-107			
1,4-Dimethyl-2,5-Dinitrobenzene	1900	200	ug/kg wet	2014		94.5	75.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1930	200	ug/kg wet	1984		97.3	77.8-107			
1,5-Dimethyl-2,3-Dinitrobenzene	1870	200	ug/kg wet	2000		93.6	75.4-107			
1,5-Dimethyl-2,4-Dinitrobenzene	1880	200	ug/kg wet	1954		96.3	75-108			
2,3-Dinitrotoluene	1810	200	ug/kg wet	1988		90.8	69.8-112			
2,4,6-Trinitrotoluene	1760	200	ug/kg wet	1988		88.6	63.4-111			

AECOM
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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107163 - EPA 3570

LCS (A107163-BS1)

Prepared: 07/06/2021 Analyzed: 07/07/2021 06:03

2,4-Dinitrotoluene	1920	200	ug/kg wet	1988		96.5	69.4-113			
2,5-Dinitrotoluene	1790	200	ug/kg wet	1988		89.9	67-107			
2,6-Dinitrotoluene	1810	200	ug/kg wet	1988		91.0	75.3-108			
2-Amino-4,6-dinitrotoluene	1800	200	ug/kg wet	1988		90.8	61.9-106			
2-Nitrotoluene	1840	200	ug/kg wet	1988		92.5	75.3-111			
3,4-Dinitrotoluene	1880	99	ug/kg wet	1988		94.6	72.4-108			D
3,5-Dinitroaniline	1820	200	ug/kg wet	1988		91.5	61-107			
3,5-Dinitrotoluene	1910	200	ug/kg wet	1988		96.3	72.2-111			
3-Nitrotoluene	1800	200	ug/kg wet	1988		90.6	77.4-107			
4-Amino-2,6-dinitrotoluene	1670	200	ug/kg wet	1988		83.9	51.7-110			
4-Nitrotoluene	1800	200	ug/kg wet	1988		90.4	79.1-108			
Nitrobenzene	1840	200	ug/kg wet	1988		92.3	80.5-109			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1760</i>		<i>ug/kg wet</i>	<i>1932</i>		<i>91.1</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1710</i>		<i>ug/kg wet</i>	<i>1988</i>		<i>86.0</i>	<i>67.8-100</i>			

Matrix Spike (A107163-MS1)

Source: A212525-41

Prepared: 07/06/2021 Analyzed: 07/07/2021 05:00

1,2-Dimethyl-3,4-Dinitrobenzene	1930	200	ug/kg dry	1998	ND	96.5	70.9-106			
1,2-Dimethyl-3,5-Dinitrobenzene	1870	200	ug/kg dry	2022	ND	92.7	68.2-104			
1,2-Dimethyl-3,6-Dinitrobenzene	2020	200	ug/kg dry	2001	ND	101	75.9-109			
1,2-Dimethyl-4,5-Dinitrobenzene	1900	200	ug/kg dry	2028	ND	93.8	65-112			
1,3,5-Trinitrobenzene	1320	200	ug/kg dry	2002	ND	65.8	37.4-108			
1,3-Dimethyl-2,4-Dinitrobenzene	1960	200	ug/kg dry	2022	ND	96.8	69.5-109			
1,3-Dimethyl-2,5-Dinitrobenzene	1990	200	ug/kg dry	2004	ND	99.3	76.2-108			
1,3-Dinitrobenzene	1620	200	ug/kg dry	2002	ND	81.0	50.2-106			
1,4-Dimethyl-2,3-Dinitrobenzene	2000	200	ug/kg dry	2008	ND	99.6	72.3-106			
1,4-Dimethyl-2,5-Dinitrobenzene	1960	200	ug/kg dry	2028	ND	96.4	71.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1980	200	ug/kg dry	1998	ND	99.0	74-108			
1,5-Dimethyl-2,3-Dinitrobenzene	1860	200	ug/kg dry	2014	ND	92.5	67.9-106			
1,5-Dimethyl-2,4-Dinitrobenzene	1960	200	ug/kg dry	1968	ND	99.5	69.2-109			
2,3-Dinitrotoluene	1840	200	ug/kg dry	2002	ND	92.2	66.9-107			
2,4,6-Trinitrotoluene	1840	200	ug/kg dry	2002	ND	91.8	20.9-161			
2,4-Dinitrotoluene	1980	200	ug/kg dry	2002	ND	99.1	63.6-113			
2,5-Dinitrotoluene	1840	200	ug/kg dry	2002	ND	92.0	61.4-109			
2,6-Dinitrotoluene	1890	200	ug/kg dry	2002	ND	94.6	68-110			
2-Amino-4,6-dinitrotoluene	1740	200	ug/kg dry	2002	ND	87.1	31-124			
2-Nitrotoluene	1900	200	ug/kg dry	2002	ND	95.1	70.7-115			
3,4-Dinitrotoluene	1940	100	ug/kg dry	2002	ND	96.9	70-104			D
3,5-Dinitroaniline	1730	200	ug/kg dry	2002	ND	86.5	41.8-112			
3,5-Dinitrotoluene	1950	200	ug/kg dry	2002	ND	97.3	68.4-110			
3-Nitrotoluene	1870	200	ug/kg dry	2002	ND	93.2	74.4-110			
4-Amino-2,6-dinitrotoluene	1640	200	ug/kg dry	2002	ND	81.8	27.9-131			
4-Nitrotoluene	1890	200	ug/kg dry	2002	ND	94.2	75.5-110			
Nitrobenzene	1900	200	ug/kg dry	2002	ND	95.1	76.1-111			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1790</i>		<i>ug/kg dry</i>	<i>1945</i>		<i>92.2</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1810</i>		<i>ug/kg dry</i>	<i>2002</i>		<i>90.2</i>	<i>67.8-100</i>			

AECOM
4051 Ogletown Road
Newark DE, 19713

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Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107163 - EPA 3570

Matrix Spike Dup (A107163-MSD1)	Source: A212525-41	Prepared: 07/06/2021	Analyzed: 07/07/2021 05:31							
1,2-Dimethyl-3,4-Dinitrobenzene	1840	200	ug/kg dry	1998	ND	91.9	70.9-106	4.86	20	
1,2-Dimethyl-3,5-Dinitrobenzene	1790	200	ug/kg dry	2022	ND	88.7	68.2-104	4.43	20	
1,2-Dimethyl-3,6-Dinitrobenzene	1960	200	ug/kg dry	2001	ND	98.1	75.9-109	3.08	20	
1,2-Dimethyl-4,5-Dinitrobenzene	1830	200	ug/kg dry	2028	ND	90.3	65-112	3.78	20	
1,3,5-Trinitrobenzene	1370	200	ug/kg dry	2002	ND	68.5	37.4-108	4.06	20	
1,3-Dimethyl-2,4-Dinitrobenzene	1860	200	ug/kg dry	2022	ND	92.0	69.5-109	5.03	20	
1,3-Dimethyl-2,5-Dinitrobenzene	1910	200	ug/kg dry	2004	ND	95.3	76.2-108	4.09	20	
1,3-Dinitrobenzene	1590	200	ug/kg dry	2002	ND	79.2	50.2-106	2.22	20	
1,4-Dimethyl-2,3-Dinitrobenzene	1900	200	ug/kg dry	2008	ND	94.8	72.3-106	4.89	20	
1,4-Dimethyl-2,5-Dinitrobenzene	1890	200	ug/kg dry	2028	ND	93.0	71.6-108	3.59	20	
1,4-Dimethyl-2,6-Dinitrobenzene	1900	200	ug/kg dry	1998	ND	95.1	74-108	4.02	20	
1,5-Dimethyl-2,3-Dinitrobenzene	1770	200	ug/kg dry	2014	ND	87.8	67.9-106	5.18	20	
1,5-Dimethyl-2,4-Dinitrobenzene	1890	200	ug/kg dry	1968	ND	95.8	69.2-109	3.85	20	
2,3-Dinitrotoluene	1770	200	ug/kg dry	2002	ND	88.5	66.9-107	4.03	20	
2,4,6-Trinitrotoluene	1770	200	ug/kg dry	2002	ND	88.5	20.9-161	3.63	20	
2,4-Dinitrotoluene	1910	200	ug/kg dry	2002	ND	95.4	63.6-113	3.78	20	
2,5-Dinitrotoluene	1800	200	ug/kg dry	2002	ND	89.9	61.4-109	2.29	20	
2,6-Dinitrotoluene	1810	200	ug/kg dry	2002	ND	90.3	68-110	4.70	20	
2-Amino-4,6-dinitrotoluene	1730	200	ug/kg dry	2002	ND	86.4	31-124	0.715	20	
2-Nitrotoluene	1840	200	ug/kg dry	2002	ND	91.7	70.7-115	3.60	20	
3,4-Dinitrotoluene	1870	100	ug/kg dry	2002	ND	93.5	70-104	3.54	20	D
3,5-Dinitroaniline	1740	200	ug/kg dry	2002	ND	87.1	41.8-112	0.688	20	
3,5-Dinitrotoluene	1900	200	ug/kg dry	2002	ND	95.1	68.4-110	2.26	20	
3-Nitrotoluene	1800	200	ug/kg dry	2002	ND	89.9	74.4-110	3.69	20	
4-Amino-2,6-dinitrotoluene	1630	200	ug/kg dry	2002	ND	81.5	27.9-131	0.347	20	
4-Nitrotoluene	1810	200	ug/kg dry	2002	ND	90.4	75.5-110	4.11	20	
Nitrobenzene	1840	200	ug/kg dry	2002	ND	91.8	76.1-111	3.54	20	
Surrogate: 2,2'-Dinitrobiphenyl	1690		ug/kg dry	1945		87.0	10-116			
Surrogate: Nitrobenzene-d5	1730		ug/kg dry	2002		86.6	67.8-100			

AECOM
 4051 Ogletown Road
 Newark DE, 19713

Project: Site Investigation - Barksdale, WI
 Project Number: 60635957
 Project Manager: Sharon Nordstrom

Classical Chemistry Parameters - Quality Control
Pace Analytical - Madison

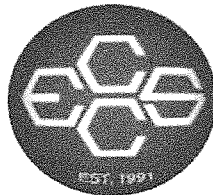
Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A107140 - % Solids										
Duplicate (A107140-DUP1) Source: A212525-20 Prepared: 07/01/2021 Analyzed: 07/02/2021 14:16										
% Solids	99.0	0.00	% by Weight		99.1			0.0354	20	
Batch A107147 - % Solids										
Duplicate (A107147-DUP1) Source: A212525-40 Prepared: 07/02/2021 Analyzed: 07/03/2021 11:30										
% Solids	98.9	0.00	% by Weight		98.9			0.00893	20	
Batch A107158 - % Solids										
Duplicate (A107158-DUP1) Source: A212521-05 Prepared: 07/06/2021 Analyzed: 07/07/2021 10:50										
% Solids	91.0	0.00	% by Weight		91.1			0.131	20	

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60635957
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Notes and Definitions

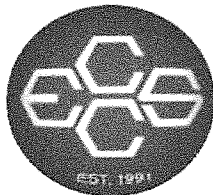
- LC Results may be biased low because of low continuing calibration verification (CCV).
- J Analyte was detected but is below the reporting limit. The concentration is estimated.
- D Data reported from a dilution
- ND Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
- NR Not Reported
- dry Sample results reported on a dry weight basis. Detection limits (if listed) and reporting limits have been adjusted for the solids content. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
- RPD Relative Percent Difference
- Detection limits (if listed) and reporting limits have been adjusted for dilutions, if reported.



Environmental Chemistry Consulting Services, Inc.
 2525 Advance Road
 Madison, WI 53718
 608-221-8700 (phone)
 608-221-4889 (fax)

CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212525				Mail Report To: Sharon Nordstrom									
Project Name: Barksdale				Preservation Codes				Company: AECOM									
Project Location: Barksdale, WI				Analyses Requested				Address: 4051 Ogletown Rd									
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 5 BDs <input type="checkbox"/> 3 BDs <input type="checkbox"/> 2 BDs <input type="checkbox"/> 24 hrs				A				E-mail Address: sharon.nordstrom@aecom.com									
If Rush, Report Due Date:				Matrix				Invoice To:									
Sampled By (Print): Tasha Sook and Desmond Nielsen								Company: AECOM									
Sample Description				Collection		Total # of Containers				Address: 7740 5558 0605							
				Date	Time					Tracking # 7740-5558-0888							
						NNOCS				Comments		Lab ID	Lab Receipt Time				
SITG-210615-001X(0-3)				6/15/2021	14:20	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frozen after collection	11			
SITG-210615-001X(0-3)-D				6/15/2021	14:20	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		12			
SITG-210615-002X(0-3)				6/15/2021	14:22	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		13			
SITG-210615-002X(0-3)-D				6/15/2021	14:22	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		14			
SITG-210615-003X(0-3)				6/15/2021	14:24	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		15			
SITG-210615-003X(0-3)-D				6/15/2021	14:24	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		16			
SITG-210615-004X(0-3)				6/15/2021	14:26	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		17			
SITG-210615-004X(0-3)-D				6/15/2021	14:26	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		18			
SITG-210615-005X(0-3)				6/15/2021	14:28	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		19			
SITG-210615-006X(0-3)				6/15/2021	14:30	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		20			
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)		Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*		Relinquished By: <i>Natassja Sook</i> Date: 6/23/2021 Time: 12:00		Received By: <i>Jessica E...</i> Date: 6/23/2021 Time: 09:15		Relinquished By: Date: Time:		Received By: Date: Time:		Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Seal #s: Shipped Via: Fedex		Receipt Temp: 1.5°C Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	



Environmental Chemistry Consulting Services, Inc.
 2525 Advance Road
 Madison, WI 53718
 608-221-8700 (phone)
 608-221-4889 (fax)

CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212525				Mail Report To: Sharon Nordstrom																					
Project Name: Barksdale				Preservation Codes				Company: AECOM																					
Project Location: Barksdale, WI				Analyses Requested: A				Address: 4051 Ogletown Rd Newark, DE 19713																					
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 5 BDs <input type="checkbox"/> 3 BDs <input type="checkbox"/> 2 BDs <input type="checkbox"/> 24 hrs				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Matrix</th> <th rowspan="2">Total # of Containers</th> <th rowspan="2">NNOCs</th> <th colspan="7"></th> </tr> <tr> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> </table>				Matrix	Total # of Containers	NNOCs																E-mail Address: sharon.nordstrom@aecom.com			
Matrix	Total # of Containers	NNOCs																											
If Rush, Report Due Date:								Invoice To:				Company: AECOM																	
Sampled By (Print): Tasha Sook and Desmond Nielsen				Address: 7740 5558 0605				Tracking # 7740-5558-0888																					
Sample Description	Collection		Matrix	Total # of Containers	NNOCs								Comments	Lab ID	Lab Receipt Time														
	Date	Time																											
SITG-210615-007X(0-3)	6/15/2021	14:32	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frozen after collection	21																
SITG-210615-008X(0-3)	6/15/2021	14:34	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		22																	
SITG-210615-009X(0-3)	6/15/2021	14:36	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		23																	
SITG-210615-010X(0-3)	6/15/2021	14:38	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		24																	
SITG-210615-011X(0-3)	6/15/2021	14:40	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		25																	
SITG-210615-012X(0-3)	6/15/2021	14:42	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		26																	
SITG-210615-013X(0-3)	6/15/2021	14:44	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		27																	
SITG-210615-011Y(0-3.5)	6/15/2021	11:46	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		28																	
SITG-210615-012Y(0-3.5)	6/15/2021	11:56	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		29																	
SITG-210615-013Y(0-3.5)	6/15/2021	15:08	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		30																	
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)		Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*		Relinquished By: <i>Natassja Sook</i> Date: 6/23/2021 Time: 12:00 Relinquished By: _____ Date: _____ Time: _____		Received By: <i>Jessica...</i> Date: 06-24-21 Time: 0915 Received By: _____ Date: _____ Time: _____		Shipped Via: Fedex Receipt Temp: 1.5°C Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																					
Matrix Codes A=Air S=Soil W=Water O=Other		Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Seal #s: _____		Shipped Via: Fedex		Receipt Temp: 1.5°C		Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																			

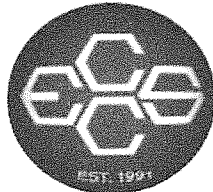
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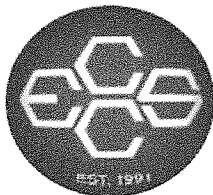
Environmental Chemistry Consulting Services, Inc.
 2525 Advance Road
 Madison, WI 53718
 608-221-8700 (phone)
 608-221-4889 (fax)

CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212525				Mail Report To: Sharon Nordstrom									
Project Name: Barksdale				Preservation Codes				Company: AECOM									
Project Location: Barksdale, WI				Analyses Requested: A				Address: 4051 Ogletown Rd Newark, DE 19713									
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 5 BDs <input type="checkbox"/> 3 BDs <input type="checkbox"/> 2 BDs <input type="checkbox"/> 24 hrs				Matrix				Total # of Containers				Invoice To:					
If Rush, Report Due Date:												Company: AECOM					
Sampled By (Print): Tasha Sook and Desmond Nielsen				NNOCS				Address: 7740 5558 0605				E-mail Address: sharon.nordstrom@aecom.com					
Sample Description												Collection				Tracking # 7740-5558-0888	
		Date		Time								Comments		Lab ID	Lab Receipt Time		
SITG-210618-014Y(0-3.5)		6/18/2021		08:50		S 1		<input checked="" type="checkbox"/>				Frozen after collection		31			
SITG-210618-015C(3-3.5)		6/18/2021		08:58		S 1		<input checked="" type="checkbox"/>						32			
SITG-210618-015N(0-3)		6/18/2021		09:00		S 1		<input checked="" type="checkbox"/>						33			
SITG-210618-015S(0-3)		6/18/2021		09:02		S 1		<input checked="" type="checkbox"/>						34			
SITG-210618-016C(3-3.5)		6/18/2021		09:06		S 1		<input checked="" type="checkbox"/>						35			
SITG-210618-016N(0-3)		6/18/2021		09:08		S 1		<input checked="" type="checkbox"/>						36			
SITG-210618-016S(0-3)		6/18/2021		09:10		S 1		<input checked="" type="checkbox"/>						37			
SITG-210618-017C(3-3.5)		6/18/2021		09:14		S 1		<input checked="" type="checkbox"/>						38			
SITG-210618-017N(0-3)		6/18/2021		09:16		S 1		<input checked="" type="checkbox"/>						39			
SITG-210618-017S(0-3)		6/18/2021		09:18		S 1		<input checked="" type="checkbox"/>						40			
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)		Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*		Relinquished By: <i>Natassja Sook</i>				Date: 6/23/2021		Time: 12:00		Received By: <i>Jessica Garcia</i>		Date: 6/24/21		Time: 0915	
Matrix Codes A=Air S=Soil W=Water O=Other		Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact				Seal #s:		Shipped Via: Fedex		Receipt Temp: 1.5°C		Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					

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Environmental Chemistry Consulting Services, Inc.
 2525 Advance Road
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 608-221-4889 (fax)

CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212525				Mail Report To: Sharon Nordstrom																																																																																																																																																												
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="15">SITG-210618-018C(3-3.5)</td> </tr> <tr> <td colspan="15">SITG-210618-018N(0-3)</td> </tr> <tr> <td colspan="15">SITG-210618-018S(0-3)</td> </tr> <tr> <td colspan="15">SITG-210618-018E(0-3)</td> </tr> <tr> <td colspan="15">SITG-210618-019Y(0-3.5)</td> </tr> <tr> <td colspan="15">SITG-210618-020C(3-3.5)</td> </tr> <tr> <td colspan="15">SITG-210618-020N(0-3)</td> </tr> <tr> <td colspan="15">SITG-210618-020S(0-3)</td> </tr> <tr> <td colspan="15">SITG-210618-020E(0-3)</td> </tr> <tr> <td colspan="15">SITG-210618-018X(0-3)</td> </tr> </table>															SITG-210618-018C(3-3.5)															SITG-210618-018N(0-3)															SITG-210618-018S(0-3)															SITG-210618-018E(0-3)															SITG-210618-019Y(0-3.5)															SITG-210618-020C(3-3.5)															SITG-210618-020N(0-3)															SITG-210618-020S(0-3)															SITG-210618-020E(0-3)															SITG-210618-018X(0-3)														
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Matrix Codes A=Air S=Soil W=Water O=Other			Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact			Seal #s:			Shipped Via: Fedex			Receipt Temp: 1.5°C Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																																																																																																																																																								

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2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 14, 2021

Sharon Nordstrom
AECOM
4051 Ogletown Road
Newark, DE 19713
RE: Site Investigation - Barksdale, WI

Enclosed are the analytical results for the samples received by the laboratory on 06/30/2021.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

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

Sincerely,

Molly Palzkill For Jessica Esser
Project Manager

Certification List

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2022
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2022
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2022
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2022
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2022
NYDOH	New York Department of Health	12110	04/01/2022
TCEQ	Texas Secondary NELAP Accreditation	T104704504-20-11	11/30/2021
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2021

AECOM
 4051 Ogletown Road
 Newark DE, 19713

Project: Site Investigation - Barksdale, WI
 Project Number: 60660855
 Project Manager: Sharon Nordstrom

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SITG-210623-021Y-0-3.5	A212612-01	Soil	06/23/2021	06/30/2021
SITG-210623-022Y-0-3.5	A212612-02	Soil	06/23/2021	06/30/2021
SITG-210623-022X-0-3	A212612-03	Soil	06/23/2021	06/30/2021
SITG-210623-023Y-0-3.5	A212612-04	Soil	06/23/2021	06/30/2021
SITG-210623-023X-0-3	A212612-05	Soil	06/23/2021	06/30/2021
SITG-210624-024X-0-5	A212612-06	Soil	06/24/2021	06/30/2021
SITG-210624-024C-5-5.5	A212612-07	Soil	06/24/2021	06/30/2021
SITG-210624-024W-0-5	A212612-08	Soil	06/24/2021	06/30/2021
SITG-210624-024E-0-5	A212612-09	Soil	06/24/2021	06/30/2021
SITG-210624-024N-0-5	A212612-10	Soil	06/24/2021	06/30/2021
SITG-210625-025C-3.5-4	A212612-11	Soil	06/25/2021	06/30/2021
SITG-210625-025N-0-3.5	A212612-12	Soil	06/25/2021	06/30/2021
SITG-210625-025S-0-3.5	A212612-13	Soil	06/25/2021	06/30/2021
SITG-210625-025W-0-3.5	A212612-14	Soil	06/25/2021	06/30/2021
SITG-210625-025X-0-3.5	A212612-15	Soil	06/25/2021	06/30/2021
SITG-210625-026C-3.5-4	A212612-16	Soil	06/25/2021	06/30/2021
SITG-210625-026N-0-3.5	A212612-17	Soil	06/25/2021	06/30/2021
SITG-210625-026S-0-3.5	A212612-18	Soil	06/25/2021	06/30/2021
SITG-210625-026X-0-3.5	A212612-19	Soil	06/25/2021	06/30/2021
SITG-210625-027C-3.5-4	A212612-20	Soil	06/25/2021	06/30/2021
SITG-210625-027N-0-3.5	A212612-21	Soil	06/25/2021	06/30/2021
SITG-210625-027S-0-3.5	A212612-22	Soil	06/25/2021	06/30/2021
SITG-210625-027X-0-3.5	A212612-23	Soil	06/25/2021	06/30/2021
SITG-210625-028C-3.5-4	A212612-24	Soil	06/25/2021	06/30/2021
SITG-210625-028N-0-3.5	A212612-25	Soil	06/25/2021	06/30/2021
SITG-210625-028S-0-3.5	A212612-26	Soil	06/25/2021	06/30/2021
SITG-210625-028X-0-3.5	A212612-27	Soil	06/25/2021	06/30/2021
SITG-210625-029C-3.5-4	A212612-28	Soil	06/25/2021	06/30/2021
SITG-210625-029N-0-3.5	A212612-29	Soil	06/25/2021	06/30/2021
SITG-210625-029S-0-3.5	A212612-30	Soil	06/25/2021	06/30/2021
SITG-210625-029X-0-3.5	A212612-31	Soil	06/25/2021	06/30/2021
SITG-210625-030C-3.5-4	A212612-32	Soil	06/25/2021	06/30/2021
SITG-210625-030N-0-3.5	A212612-33	Soil	06/25/2021	06/30/2021
SITG-210625-030S-0-3.5	A212612-34	Soil	06/25/2021	06/30/2021

AECOM
 4051 Ogletown Road
 Newark DE, 19713

Project: Site Investigation - Barksdale, WI
 Project Number: 60660855
 Project Manager: Sharon Nordstrom

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SITG-210625-030X-0-3.5	A212612-35	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-01-0-2	A212612-36	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-01-2-4	A212612-37	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-02-0-2	A212612-38	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-02-2-4	A212612-39	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-03-0-2	A212612-40	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-03-2-4	A212612-41	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-04-0-2	A212612-42	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-04-2-4	A212612-43	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-05-0-2	A212612-44	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-05-2-4	A212612-45	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-06-0-2	A212612-46	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-06-2-4	A212612-47	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-07-0-2	A212612-48	Soil	06/25/2021	06/30/2021
SIGP-210625-PAH-07-2-4	A212612-49	Soil	06/25/2021	06/30/2021
SITG-210628-031X-0-4.5	A212612-50	Soil	06/28/2021	06/30/2021
SITG-210628-031Y-0-5	A212612-51	Soil	06/28/2021	06/30/2021
SITG-210628-032X-0-4.5	A212612-52	Soil	06/28/2021	06/30/2021
SITG-210628-032Y-0-5	A212612-53	Soil	06/28/2021	06/30/2021
SITG-210628-033X-0-4.5	A212612-54	Soil	06/28/2021	06/30/2021
SITG-210628-033Y-0-5	A212612-55	Soil	06/28/2021	06/30/2021

CASE NARRATIVE

Sample Receipt Information:

55 samples were received on 06/30/2021. Samples were received in acceptable condition.

Samples were kept frozen from the date of collection by the client.

Please see the chain of custody (COC) document at the end of this report for additional information.

Continuing Calibration Verification (CCV):

The LC footnote on samples A212612-11 through A212612-43 and A212612-52 through A212612-55 states that there was a low CCV recovery for 1,3,5-Trinitrobenzene. The lower control limit is 70% and the lowest recovery was 67.3%.

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210623-021Y-0-3.5

A212612-01 (Soil)

Date Sampled
06/23/2021 13:15

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 02:20	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			55.3 %	10-116		07/06/2021	07/07/2021 02:20	EPA 8270D	
Surrogate: Nitrobenzene-d5			90.4 %	67.8-100		07/06/2021	07/07/2021 02:20	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107158

% Solids	98.1	0.00	% by Weight	1	07/06/2021	07/07/2021 10:50	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210623-022Y-0-3.5

Date Sampled

A212612-02 (Soil)

06/23/2021 13:17

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 02:52	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			54.8 %	10-116		07/06/2021	07/07/2021 02:52	EPA 8270D	
Surrogate: Nitrobenzene-d5			90.6 %	67.8-100		07/06/2021	07/07/2021 02:52	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	98.5		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210623-022X-0-3

Date Sampled
06/23/2021 13:19

A212612-03 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:24	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			55.8 %	10-116		07/06/2021	07/07/2021 03:24	EPA 8270D	
Surrogate: Nitrobenzene-d5			90.7 %	67.8-100		07/06/2021	07/07/2021 03:24	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	98.2	0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210623-023Y-0-3.5

A212612-04 (Soil)

Date Sampled
06/23/2021 13:21

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 03:56	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			55.7 %	10-116		07/06/2021	07/07/2021 03:56	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.9 %	67.8-100		07/06/2021	07/07/2021 03:56	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	98.0		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210623-023X-0-3

Date Sampled

A212612-05 (Soil)

06/23/2021 13:23

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
4-Nitrotoluene	ND	5.6	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 04:28	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			57.6 %	10-116		07/06/2021	07/07/2021 04:28	EPA 8270D	
Surrogate: Nitrobenzene-d5			88.5 %	67.8-100		07/06/2021	07/07/2021 04:28	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.5	0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210624-024X-0-5

Date Sampled

A212612-06 (Soil)

06/24/2021 12:15

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
2,4,6-Trinitrotoluene	2300	3.1	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
2-Amino-4,6-dinitrotoluene	200	3.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
4-Amino-2,6-dinitrotoluene	200	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:10	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			76.6 %	10-116		07/06/2021	07/07/2021 08:10	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.1 %	67.8-100		07/06/2021	07/07/2021 08:10	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	99.2		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210624-024C-5-5.5

A212612-07 (Soil)

Date Sampled
06/24/2021 12:17

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
2,4,6-Trinitrotoluene	1600	3.1	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
2-Amino-4,6-dinitrotoluene	180	3.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	J
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
4-Amino-2,6-dinitrotoluene	190	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	J
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 08:42	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			69.9 %	10-116		07/06/2021	07/07/2021 08:42	EPA 8270D	
Surrogate: Nitrobenzene-d5			85.0 %	67.8-100		07/06/2021	07/07/2021 08:42	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	99.5		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210624-024W-0-5

A212612-08 (Soil)

Date Sampled
06/24/2021 12:19

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,3-Dinitrobenzene	200	33	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
2,4,6-Trinitrotoluene	150000	310	20000	ug/kg dry	100	07/06/2021	07/09/2021 11:42	EPA 8270D	D
2,4-Dinitrotoluene	290	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
2,6-Dinitrotoluene	230	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
2-Amino-4,6-dinitrotoluene	1600	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
4-Amino-2,6-dinitrotoluene	2100	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	760	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 09:14	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 101 % 10-116 07/06/2021 07/07/2021 09:14 EPA 8270D
Surrogate: Nitrobenzene-d5 89.2 % 67.8-100 07/06/2021 07/07/2021 09:14 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.8	0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210624-024E-0-5

Date Sampled

A212612-09 (Soil)

06/24/2021 12:21

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 09:46	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			60.2 %	10-116		07/06/2021	07/07/2021 09:46	EPA 8270D	
Surrogate: Nitrobenzene-d5			90.6 %	67.8-100		07/06/2021	07/07/2021 09:46	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	98.9		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210624-024N-0-5

Date Sampled

A212612-10 (Soil)

06/24/2021 12:23

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107163

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,3-Dinitrobenzene	4500	34	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
2,4,6-Trinitrotoluene	280000	3100	200000	ug/kg dry	1000	07/06/2021	07/09/2021 15:29	EPA 8270D	D
2,4-Dinitrotoluene	17000	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
2,5-Dinitrotoluene	300	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
2,6-Dinitrotoluene	15000	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
2-Amino-4,6-dinitrotoluene	1100	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
2-Nitrotoluene	280	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
3,5-Dinitrotoluene	420	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
3-Nitrotoluene	87	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	J
4-Amino-2,6-dinitrotoluene	1000	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
4-Nitrotoluene	230	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 10:18	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			25.4 %	10-116		07/06/2021	07/07/2021 10:18	EPA 8270D	
Surrogate: Nitrobenzene-d5			89.5 %	67.8-100		07/06/2021	07/07/2021 10:18	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.9	0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-025C-3.5-4

A212612-11 (Soil)

Date Sampled
06/25/2021 12:46

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
2,4,6-Trinitrotoluene	200	3.1	200	ug/kg dry	1	07/06/2021	07/08/2021 06:41	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.8	200	ug/kg dry	1	07/06/2021	07/08/2021 06:41	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/06/2021	07/08/2021 06:41	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 10:50	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			59.8 %	10-116		07/06/2021	07/08/2021 06:41	EPA 8270D	
Surrogate: Nitrobenzene-d5			84.6 %	67.8-100		07/06/2021	07/08/2021 06:41	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	98.0		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-025N-0-3.5

A212612-12 (Soil)

Date Sampled
06/25/2021 12:49

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
2,4,6-Trinitrotoluene	780	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
2-Amino-4,6-dinitrotoluene	200	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
4-Amino-2,6-dinitrotoluene	200	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 11:22	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			91.1 %	10-116		07/06/2021	07/07/2021 11:22	EPA 8270D	
Surrogate: Nitrobenzene-d5			94.8 %	67.8-100		07/06/2021	07/07/2021 11:22	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.2		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-025S-0-3.5

Date Sampled

A212612-13 (Soil)

06/25/2021 12:52

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
2,4,6-Trinitrotoluene	9500	13	810	ug/kg dry	4	07/06/2021	07/08/2021 23:09	EPA 8270D	D
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
2-Amino-4,6-dinitrotoluene	470	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
4-Amino-2,6-dinitrotoluene	350	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 11:53	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			97.9 %	10-116		07/06/2021	07/07/2021 11:53	EPA 8270D	
Surrogate: Nitrobenzene-d5			93.8 %	67.8-100		07/06/2021	07/07/2021 11:53	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.9		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-025W-0-3.5

A212612-14 (Soil)

Date Sampled
06/25/2021 12:55

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
2,4,6-Trinitrotoluene	230	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
2-Amino-4,6-dinitrotoluene	170	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 12:25	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			81.1 %	10-116		07/06/2021	07/07/2021 12:25	EPA 8270D	
Surrogate: Nitrobenzene-d5			92.2 %	67.8-100		07/06/2021	07/07/2021 12:25	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.1		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-025X-0-3.5

A212612-15 (Soil)

Date Sampled
06/25/2021 12:58

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
2,4,6-Trinitrotoluene	9100	13	820	ug/kg dry	4	07/06/2021	07/09/2021 13:53	EPA 8270D	D
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
2-Amino-4,6-dinitrotoluene	2800	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
4-Amino-2,6-dinitrotoluene	3000	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 12:57	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			106 %	10-116		07/06/2021	07/07/2021 12:57	EPA 8270D	
Surrogate: Nitrobenzene-d5			94.8 %	67.8-100		07/06/2021	07/07/2021 12:57	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.7		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-026C-3.5-4

Date Sampled

A212612-16 (Soil)

06/25/2021 13:01

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 16:54	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			54.0 %	10-116		07/06/2021	07/07/2021 16:54	EPA 8270D	
Surrogate: Nitrobenzene-d5			88.4 %	67.8-100		07/06/2021	07/07/2021 16:54	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.3		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-026N-0-3.5

A212612-17 (Soil)

Date Sampled
06/25/2021 13:04

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	4.0	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.1	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.9	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,3-Dinitrobenzene	ND	35	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.5	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.7	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
2,3-Dinitrotoluene	ND	7.5	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
2,4,6-Trinitrotoluene	490	3.2	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
2,4-Dinitrotoluene	ND	6.6	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
2,5-Dinitrotoluene	ND	7.0	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
2,6-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
2-Amino-4,6-dinitrotoluene	190	3.9	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	J
2-Nitrotoluene	ND	4.4	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
3,4-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
3,5-Dinitrotoluene	ND	4.9	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
3-Nitrotoluene	ND	5.4	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
4-Amino-2,6-dinitrotoluene	180	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	J
4-Nitrotoluene	ND	5.8	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 17:26	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			70.5 %	10-116		07/06/2021	07/07/2021 17:26	EPA 8270D	
Surrogate: Nitrobenzene-d5			89.1 %	67.8-100		07/06/2021	07/07/2021 17:26	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	95.4		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-026S-0-3.5

A212612-18 (Soil)

Date Sampled
06/25/2021 13:07

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
2,4,6-Trinitrotoluene	150	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 17:58	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			64.8 %	10-116		07/06/2021	07/07/2021 17:58	EPA 8270D	
Surrogate: Nitrobenzene-d5			88.4 %	67.8-100		07/06/2021	07/07/2021 17:58	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.2	0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-026X-0-3.5

A212612-19 (Soil)

Date Sampled
06/25/2021 13:10

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
2,4,6-Trinitrotoluene	220	3.2	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
2-Amino-4,6-dinitrotoluene	170	3.8	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	J
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	J
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 18:30	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			65.6 %	10-116		07/06/2021	07/07/2021 18:30	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.0 %	67.8-100		07/06/2021	07/07/2021 18:30	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.2		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-027C-3.5-4

A212612-20 (Soil)

Date Sampled
06/25/2021 13:13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
2,4,6-Trinitrotoluene	170	3.2	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.8	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	J
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	J
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 19:02	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			61.8 %	10-116		07/06/2021	07/07/2021 19:02	EPA 8270D	
Surrogate: Nitrobenzene-d5			85.2 %	67.8-100		07/06/2021	07/07/2021 19:02	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.3		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-027N-0-3.5

Date Sampled

A212612-21 (Soil)

06/25/2021 13:16

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
2,4,6-Trinitrotoluene	170	3.2	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.8	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	J
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	J
4-Nitrotoluene	ND	5.6	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/06/2021	07/07/2021 22:44	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			61.3 %	10-116		07/06/2021	07/07/2021 22:44	EPA 8270D	
Surrogate: Nitrobenzene-d5			85.6 %	67.8-100		07/06/2021	07/07/2021 22:44	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107159

% Solids	97.0		0.00	% by Weight	1	07/06/2021	07/07/2021 10:56	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-027S-0-3.5

A212612-22 (Soil)

Date Sampled
06/25/2021 13:19

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
2,4,6-Trinitrotoluene	220	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/07/2021 23:16	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			68.4 %	10-116		07/06/2021	07/07/2021 23:16	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.6 %	67.8-100		07/06/2021	07/07/2021 23:16	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	98.1		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-027X-0-3.5

A212612-23 (Soil)

Date Sampled
06/25/2021 13:22

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
2,4,6-Trinitrotoluene	2900	3.2	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
2-Amino-4,6-dinitrotoluene	370	3.8	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
4-Amino-2,6-dinitrotoluene	280	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/07/2021 23:48	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			84.7 %	10-116		07/06/2021	07/07/2021 23:48	EPA 8270D	
Surrogate: Nitrobenzene-d5			89.0 %	67.8-100		07/06/2021	07/07/2021 23:48	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.8	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-028C-3.5-4

A212612-24 (Soil)

Date Sampled
06/25/2021 13:25

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/08/2021 00:19	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			54.6 %	10-116		07/06/2021	07/08/2021 00:19	EPA 8270D	
Surrogate: Nitrobenzene-d5			84.7 %	67.8-100		07/06/2021	07/08/2021 00:19	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.6	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-028N-0-3.5

A212612-25 (Soil)

Date Sampled
06/25/2021 13:28

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
2,4,6-Trinitrotoluene	14000	13	820	ug/kg dry	4	07/06/2021	07/09/2021 14:25	EPA 8270D	D
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
2-Amino-4,6-dinitrotoluene	800	3.8	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
4-Amino-2,6-dinitrotoluene	600	2.8	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/06/2021	07/08/2021 00:51	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			84.5 %	10-116		07/06/2021	07/08/2021 00:51	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.6 %	67.8-100		07/06/2021	07/08/2021 00:51	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	96.5	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-028S-0-3.5

A212612-26 (Soil)

Date Sampled
06/25/2021 13:31

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
2,4,6-Trinitrotoluene	150	3.2	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:23	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			67.2 %	10-116		07/06/2021	07/08/2021 01:23	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.7 %	67.8-100		07/06/2021	07/08/2021 01:23	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.0	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-028X-0-3.5

Date Sampled

A212612-27 (Soil)

06/25/2021 13:34

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,3,5-Trinitrobenzene	190	5.7	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	J
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
2,4,6-Trinitrotoluene	320	3.2	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
2-Amino-4,6-dinitrotoluene	200	3.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
3,5-Dinitroaniline	170	2.6	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	J
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
4-Amino-2,6-dinitrotoluene	190	2.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/08/2021 01:55	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			71.5 %	10-116		07/06/2021	07/08/2021 01:55	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.0 %	67.8-100		07/06/2021	07/08/2021 01:55	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	98.0	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-029C-3.5-4

A212612-28 (Soil)

Date Sampled

06/25/2021 13:37

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
2,4,6-Trinitrotoluene	180	3.1	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.7	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.7	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/06/2021	07/08/2021 02:27	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			59.3 %	10-116		07/06/2021	07/08/2021 02:27	EPA 8270D	
Surrogate: Nitrobenzene-d5			88.3 %	67.8-100		07/06/2021	07/08/2021 02:27	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	98.0		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-029N-0-3.5

A212612-29 (Soil)

Date Sampled
06/25/2021 13:40

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
2,4,6-Trinitrotoluene	1300	3.2	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
2-Amino-4,6-dinitrotoluene	300	3.8	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
3-Nitrotoluene	ND	5.4	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
4-Amino-2,6-dinitrotoluene	290	2.8	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/06/2021	07/08/2021 02:59	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			79.3 %	10-116		07/06/2021	07/08/2021 02:59	EPA 8270D	
Surrogate: Nitrobenzene-d5			88.5 %	67.8-100		07/06/2021	07/08/2021 02:59	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	96.9		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-029S-0-3.5

Date Sampled
06/25/2021 13:43

A212612-30 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107164

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
2,4,6-Trinitrotoluene	170	3.2	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.8	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.8	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/06/2021	07/08/2021 03:31	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			62.9 %	10-116		07/06/2021	07/08/2021 03:31	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.8 %	67.8-100		07/06/2021	07/08/2021 03:31	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.5		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-029X-0-3.5

A212612-31 (Soil)

Date Sampled
06/25/2021 13:46

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
2,4,6-Trinitrotoluene	240	3.1	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	M, X
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
2-Amino-4,6-dinitrotoluene	180	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
4-Amino-2,6-dinitrotoluene	180	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 07:45	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			69.1 %	10-116		07/07/2021	07/08/2021 07:45	EPA 8270D	
Surrogate: Nitrobenzene-d5			84.9 %	67.8-100		07/07/2021	07/08/2021 07:45	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.9		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-030C-3.5-4

A212612-32 (Soil)

Date Sampled

06/25/2021 13:49

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
2,4,6-Trinitrotoluene	170	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
2-Amino-4,6-dinitrotoluene	160	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	J
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 08:17	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			58.2 %	10-116		07/07/2021	07/08/2021 08:17	EPA 8270D	
Surrogate: Nitrobenzene-d5			84.0 %	67.8-100		07/07/2021	07/08/2021 08:17	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.7		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-030N-0-3.5

Date Sampled

A212612-33 (Soil)

06/25/2021 13:52

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/07/2021	07/08/2021 08:49	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			55.4 %	10-116		07/07/2021	07/08/2021 08:49	EPA 8270D	
Surrogate: Nitrobenzene-d5			84.1 %	67.8-100		07/07/2021	07/08/2021 08:49	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.3		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-030S-0-3.5

Date Sampled

A212612-34 (Soil)

06/25/2021 13:55

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
2,4,6-Trinitrotoluene	150	3.1	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 09:20	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			61.7 %	10-116		07/07/2021	07/08/2021 09:20	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.6 %	67.8-100		07/07/2021	07/08/2021 09:20	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	98.5	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210625-030X-0-3.5

Date Sampled
06/25/2021 13:58

A212612-35 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,3,5-Trinitrobenzene	170	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	LC, J
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
2,4,6-Trinitrotoluene	390	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
2-Amino-4,6-dinitrotoluene	220	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
3,5-Dinitroaniline	170	2.6	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	J
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
4-Amino-2,6-dinitrotoluene	200	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 09:52	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			69.5 %	10-116		07/07/2021	07/08/2021 09:52	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.6 %	67.8-100		07/07/2021	07/08/2021 09:52	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.6	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-01-0-2

A212612-36 (Soil)

Date Sampled
06/25/2021 09:05

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 10:24	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			52.6 %	10-116		07/07/2021	07/08/2021 10:24	EPA 8270D	
Surrogate: Nitrobenzene-d5			88.9 %	67.8-100		07/07/2021	07/08/2021 10:24	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	98.1	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-01-2-4

A212612-37 (Soil)

Date Sampled
06/25/2021 09:07

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 12:31	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl

48.1 % 10-116

07/07/2021 07/08/2021 12:31 EPA 8270D

Surrogate: Nitrobenzene-d5

87.4 % 67.8-100

07/07/2021 07/08/2021 12:31 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	99.2	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-02-0-2

A212612-38 (Soil)

Date Sampled
06/25/2021 09:32

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 13:03	EPA 8270D	

Surrogate: 2,2'-Dinitrophenyl 54.7 % 10-116 07/07/2021 07/08/2021 13:03 EPA 8270D
Surrogate: Nitrobenzene-d5 81.3 % 67.8-100 07/07/2021 07/08/2021 13:03 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	97.8	0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-02-2-4

A212612-39 (Soil)

Date Sampled
06/25/2021 09:34

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.8	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
2,3-Dinitrotoluene	ND	7.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
2,4-Dinitrotoluene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
2,5-Dinitrotoluene	ND	6.7	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 13:35	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			49.2 %	10-116		07/07/2021	07/08/2021 13:35	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.4 %	67.8-100		07/07/2021	07/08/2021 13:35	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	99.1		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-03-0-2

A212612-40 (Soil)

Date Sampled
06/25/2021 10:03

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 14:07	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			54.8 %	10-116		07/07/2021	07/08/2021 14:07	EPA 8270D	
Surrogate: Nitrobenzene-d5			85.9 %	67.8-100		07/07/2021	07/08/2021 14:07	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107160

% Solids	98.0		0.00	% by Weight	1	07/06/2021	07/07/2021 11:00	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-03-2-4

A212612-41 (Soil)

Date Sampled
06/25/2021 10:05

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 14:39	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			44.2 %	10-116		07/07/2021	07/08/2021 14:39	EPA 8270D	
Surrogate: Nitrobenzene-d5			84.3 %	67.8-100		07/07/2021	07/08/2021 14:39	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	98.0	0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-04-0-2

A212612-42 (Soil)

Date Sampled
06/25/2021 10:27

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	4.0	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
2,3-Dinitrotoluene	ND	7.5	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
2,4,6-Trinitrotoluene	200	3.2	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.6	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
2,5-Dinitrotoluene	ND	7.0	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
2,6-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
2-Amino-4,6-dinitrotoluene	170	3.8	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	J
2-Nitrotoluene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
3,4-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
3,5-Dinitrotoluene	ND	4.9	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
3-Nitrotoluene	ND	5.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
4-Amino-2,6-dinitrotoluene	170	2.8	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	J
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/07/2021	07/08/2021 15:11	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			64.0 %	10-116		07/07/2021	07/08/2021 15:11	EPA 8270D	
Surrogate: Nitrobenzene-d5			81.2 %	67.8-100		07/07/2021	07/08/2021 15:11	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	96.1		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-04-2-4

A212612-43 (Soil)

Date Sampled
06/25/2021 10:29

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.6	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	4.0	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.2	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,3,5-Trinitrobenzene	ND	6.0	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,3-Dinitrobenzene	ND	35	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.6	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.7	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.4	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
2,3-Dinitrotoluene	ND	7.7	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.3	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
2,4-Dinitrotoluene	ND	6.7	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
2,5-Dinitrotoluene	ND	7.1	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
2,6-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.9	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
2-Nitrotoluene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
3,4-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
3,5-Dinitroaniline	ND	2.7	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
3,5-Dinitrotoluene	ND	5.0	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
3-Nitrotoluene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.9	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
4-Nitrotoluene	ND	5.9	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
Nitrobenzene	ND	11	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.9	210	ug/kg dry	1	07/07/2021	07/08/2021 15:43	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			55.7 %	10-116		07/07/2021	07/08/2021 15:43	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.9 %	67.8-100		07/07/2021	07/08/2021 15:43	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	93.9		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-05-0-2

A212612-44 (Soil)

Date Sampled
06/25/2021 11:02

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
2,4,6-Trinitrotoluene	150	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	J
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
4-Amino-2,6-dinitrotoluene	160	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	J
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/07/2021	07/08/2021 19:26	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			66.0 %	10-116		07/07/2021	07/08/2021 19:26	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.8 %	67.8-100		07/07/2021	07/08/2021 19:26	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	97.1		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-05-2-4

A212612-45 (Soil)

Date Sampled
06/25/2021 11:04

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.6	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	4.0	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.1	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.9	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,3-Dinitrobenzene	ND	35	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.6	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.7	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.4	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
2,3-Dinitrotoluene	ND	7.6	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.3	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
2,4-Dinitrotoluene	ND	6.7	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
2,5-Dinitrotoluene	ND	7.1	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
2,6-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.9	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
2-Nitrotoluene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
3,4-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
3,5-Dinitrotoluene	ND	5.0	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
3-Nitrotoluene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.9	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
4-Nitrotoluene	ND	5.8	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
Nitrobenzene	ND	11	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.9	210	ug/kg dry	1	07/07/2021	07/08/2021 19:58	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl		57.6 %	10-116			07/07/2021	07/08/2021 19:58	EPA 8270D	
Surrogate: Nitrobenzene-d5		88.5 %	67.8-100			07/07/2021	07/08/2021 19:58	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	94.3	0.00	% by Weight	1		07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-06-0-2

A212612-46 (Soil)

Date Sampled
06/25/2021 11:35

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.7	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	4.1	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.2	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,3,5-Trinitrobenzene	ND	6.0	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,3-Dinitrobenzene	ND	35	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.6	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.7	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.6	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.4	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
2,3-Dinitrotoluene	ND	7.7	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.3	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
2,4-Dinitrotoluene	ND	6.7	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
2,5-Dinitrotoluene	ND	7.2	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
2,6-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	4.0	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
2-Nitrotoluene	ND	4.5	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
3,4-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
3,5-Dinitroaniline	ND	2.7	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
3,5-Dinitrotoluene	ND	5.0	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
3-Nitrotoluene	ND	5.6	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.9	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
4-Nitrotoluene	ND	5.9	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
Nitrobenzene	ND	11	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.9	210	ug/kg dry	1	07/07/2021	07/08/2021 20:30	EPA 8270D	
Surrogate: 2,2'-Dinitrophenyl			60.1 %	10-116		07/07/2021	07/08/2021 20:30	EPA 8270D	
Surrogate: Nitrobenzene-d5			85.6 %	67.8-100		07/07/2021	07/08/2021 20:30	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	93.4		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-06-2-4

A212612-47 (Soil)

Date Sampled
06/25/2021 11:37

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 21:02	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			54.8 %	10-116		07/07/2021	07/08/2021 21:02	EPA 8270D	
Surrogate: Nitrobenzene-d5			87.6 %	67.8-100		07/07/2021	07/08/2021 21:02	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	97.7		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-07-0-2

A212612-48 (Soil)

Date Sampled
06/25/2021 12:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.6	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	4.0	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.1	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.9	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,3-Dinitrobenzene	ND	35	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.5	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.7	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.4	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
2,3-Dinitrotoluene	ND	7.6	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.3	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
2,4-Dinitrotoluene	ND	6.6	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
2,5-Dinitrotoluene	ND	7.0	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
2,6-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.9	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
2-Nitrotoluene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
3,4-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
3,5-Dinitrotoluene	ND	4.9	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
3-Nitrotoluene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
4-Nitrotoluene	ND	5.8	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
Nitrobenzene	ND	11	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/07/2021	07/08/2021 21:34	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			62.1 %	10-116		07/07/2021	07/08/2021 21:34	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.1 %	67.8-100		07/07/2021	07/08/2021 21:34	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	94.7		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SIGP-210625-PAH-07-2-4

A212612-49 (Soil)

Date Sampled
06/25/2021 12:02

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.6	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	4.0	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.1	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.9	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,3-Dinitrobenzene	ND	35	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.5	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.7	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.4	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
2,3-Dinitrotoluene	ND	7.6	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.3	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
2,4-Dinitrotoluene	ND	6.6	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
2,5-Dinitrotoluene	ND	7.1	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
2,6-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.9	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
2-Nitrotoluene	ND	4.4	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
3,4-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
3,5-Dinitrotoluene	ND	5.0	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
3-Nitrotoluene	ND	5.5	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
4-Nitrotoluene	ND	5.8	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
Nitrobenzene	ND	11	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/07/2021	07/08/2021 22:05	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			62.0 %	10-116		07/07/2021	07/08/2021 22:05	EPA 8270D	
Surrogate: Nitrobenzene-d5			86.5 %	67.8-100		07/07/2021	07/08/2021 22:05	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	94.8		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210628-031X-0-4.5

Date Sampled

A212612-50 (Soil)

06/28/2021 12:48

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107165

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.8	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.1	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,3-Dinitrobenzene	ND	33	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.5	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.2	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
2,3-Dinitrotoluene	ND	7.3	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.1	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
2,5-Dinitrotoluene	ND	6.8	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
2,6-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.7	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
2-Nitrotoluene	ND	4.2	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
3,4-Dinitrotoluene	ND	4.4	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
3,5-Dinitroaniline	ND	2.5	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
3,5-Dinitrotoluene	ND	4.7	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
3-Nitrotoluene	ND	5.2	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
4-Nitrotoluene	ND	5.5	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.7	200	ug/kg dry	1	07/07/2021	07/08/2021 22:37	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			53.9 %	10-116		07/07/2021	07/08/2021 22:37	EPA 8270D	
Surrogate: Nitrobenzene-d5			83.0 %	67.8-100		07/07/2021	07/08/2021 22:37	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	98.9		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210628-031Y-0-5

A212612-51 (Soil)

Date Sampled
06/28/2021 12:50

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107171

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/09/2021	07/09/2021 14:57	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			53.9 %	10-116		07/09/2021	07/09/2021 14:57	EPA 8270D	
Surrogate: Nitrobenzene-d5			82.5 %	67.8-100		07/09/2021	07/09/2021 14:57	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	96.9		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210628-032X-0-4.5

Date Sampled

A212612-52 (Soil)

06/28/2021 12:52

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107171

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	5.9	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.7	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,3-Dinitrobenzene	ND	34	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.3	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
2,4-Dinitrotoluene	ND	6.4	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
2-Nitrotoluene	ND	4.3	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
3-Nitrotoluene	ND	5.3	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
4-Nitrotoluene	ND	5.6	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
Nitrobenzene	ND	10	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	200	ug/kg dry	1	07/09/2021	07/09/2021 19:12	EPA 8270D	
Surrogate: 2,2'-Dinitrobiphenyl			53.5 %	10-116		07/09/2021	07/09/2021 19:12	EPA 8270D	
Surrogate: Nitrobenzene-d5			83.4 %	67.8-100		07/09/2021	07/09/2021 19:12	EPA 8270D	

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	97.7		0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87	
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210628-032Y-0-5

Date Sampled
06/28/2021 12:54

A212612-53 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107171

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	4.0	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.1	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.9	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,3-Dinitrobenzene	ND	35	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.5	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.7	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
2,3-Dinitrotoluene	ND	7.5	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
2,4-Dinitrotoluene	ND	6.6	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
2,5-Dinitrotoluene	ND	7.0	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
2,6-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.9	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
2-Nitrotoluene	ND	4.4	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
3,4-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
3,5-Dinitrotoluene	ND	4.9	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
3-Nitrotoluene	ND	5.4	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
4-Nitrotoluene	ND	5.8	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/09/2021	07/09/2021 19:44	EPA 8270D	

Surrogate: 2,2'-Dinitrophenyl

56.7 % 10-116

07/09/2021 07/09/2021 19:44 EPA 8270D

Surrogate: Nitrobenzene-d5

81.8 % 67.8-100

07/09/2021 07/09/2021 19:44 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	95.6	0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210628-033X-0-4.5

Date Sampled
06/28/2021 12:56

A212612-54 (Soil)

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107171

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.2	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
2,3-Dinitrotoluene	ND	7.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
2,6-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
2-Nitrotoluene	ND	4.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
3,4-Dinitrotoluene	ND	4.5	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
3,5-Dinitrotoluene	ND	4.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
3-Nitrotoluene	ND	5.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
4-Nitrotoluene	ND	5.6	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:16	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl 54.0 % 10-116 07/09/2021 07/09/2021 20:16 EPA 8270D
Surrogate: Nitrobenzene-d5 83.2 % 67.8-100 07/09/2021 07/09/2021 20:16 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	97.2	0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

SITG-210628-033Y-0-5

Date Sampled

A212612-55 (Soil)

06/28/2021 12:58

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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Pace Analytical - Madison

Explosive Compounds by EPA Method 8270

Preparation Batch: A107171

1,2-Dimethyl-3,4-Dinitrobenzene	ND	5.5	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,2-Dimethyl-3,5-Dinitrobenzene	ND	3.9	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,2-Dimethyl-3,6-Dinitrobenzene	ND	6.0	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,2-Dimethyl-4,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,3,5-Trinitrobenzene	ND	5.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	LC
1,3-Dimethyl-2,4-Dinitrobenzene	ND	5.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,3-Dimethyl-2,5-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,3-Dinitrobenzene	ND	34	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,4-Dimethyl-2,3-Dinitrobenzene	ND	6.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,4-Dimethyl-2,5-Dinitrobenzene	ND	3.6	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,4-Dimethyl-2,6-Dinitrobenzene	ND	5.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,5-Dimethyl-2,3-Dinitrobenzene	ND	4.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,5-Dimethyl-2,4-Dinitrobenzene	ND	3.3	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
2,3-Dinitrotoluene	ND	7.5	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
2,4,6-Trinitrotoluene	ND	3.2	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
2,4-Dinitrotoluene	ND	6.5	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
2,5-Dinitrotoluene	ND	6.9	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
2,6-Dinitrotoluene	ND	4.7	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
2-Amino-4,6-dinitrotoluene	ND	3.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
2-Nitrotoluene	ND	4.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
3,4-Dinitrotoluene	ND	4.6	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
3,5-Dinitroaniline	ND	2.6	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
3,5-Dinitrotoluene	ND	4.9	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
3-Nitrotoluene	ND	5.4	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
4-Amino-2,6-dinitrotoluene	ND	2.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
4-Nitrotoluene	ND	5.7	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
Nitrobenzene	ND	10	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	
1,3,5-Trinitro-2,4-dimethylbenzene	ND	2.8	210	ug/kg dry	1	07/09/2021	07/09/2021 20:48	EPA 8270D	

Surrogate: 2,2'-Dinitrobiphenyl

56.5 % 10-116

07/09/2021 07/09/2021 20:48 EPA 8270D

Surrogate: Nitrobenzene-d5

83.2 % 67.8-100

07/09/2021 07/09/2021 20:48 EPA 8270D

Classical Chemistry Parameters

Preparation Batch: A107161

% Solids	96.0	0.00	% by Weight	1	07/06/2021	07/09/2021 11:59	ASTM D2974-87
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AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107163 - EPA 3570

Blank (A107163-BLK1)

Prepared: 07/06/2021 Analyzed: 07/06/2021 18:21

1,2-Dimethyl-3,4-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,5-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,6-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-4,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,6-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
2,3-Dinitrotoluene	ND	200	ug/kg wet							
2,4,6-Trinitrotoluene	ND	200	ug/kg wet							
2,4-Dinitrotoluene	ND	200	ug/kg wet							
2,5-Dinitrotoluene	ND	200	ug/kg wet							
2,6-Dinitrotoluene	ND	200	ug/kg wet							
2-Amino-4,6-dinitrotoluene	ND	200	ug/kg wet							
2-Nitrotoluene	ND	200	ug/kg wet							
3,4-Dinitrotoluene	ND	200	ug/kg wet							
3,5-Dinitroaniline	ND	200	ug/kg wet							
3,5-Dinitrotoluene	ND	200	ug/kg wet							
3-Nitrotoluene	ND	200	ug/kg wet							
4-Amino-2,6-dinitrotoluene	ND	200	ug/kg wet							
4-Nitrotoluene	ND	200	ug/kg wet							
Nitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitro-2,4-dimethylbenzene	ND	200	ug/kg wet							
Surrogate: 2,2'-Dinitrobiphenyl	1160		ug/kg wet	1932		59.8	10-116			
Surrogate: Nitrobenzene-d5	1840		ug/kg wet	1988		92.4	67.8-100			

LCS (A107163-BS1)

Prepared: 07/06/2021 Analyzed: 07/07/2021 06:03

1,2-Dimethyl-3,4-Dinitrobenzene	1910	200	ug/kg wet	1984		96.5	78.3-107			
1,2-Dimethyl-3,5-Dinitrobenzene	1870	200	ug/kg wet	2008		93.2	74.3-103			
1,2-Dimethyl-3,6-Dinitrobenzene	1980	200	ug/kg wet	1987		99.6	79.8-108			
1,2-Dimethyl-4,5-Dinitrobenzene	1890	200	ug/kg wet	2014		93.8	74.3-108			
1,3,5-Trinitrobenzene	1430	200	ug/kg wet	1988		72.1	45.5-107			
1,3-Dimethyl-2,4-Dinitrobenzene	1880	200	ug/kg wet	2008		93.4	75-106			
1,3-Dimethyl-2,5-Dinitrobenzene	1890	200	ug/kg wet	1990		95.1	78.9-108			
1,3-Dinitrobenzene	1580	200	ug/kg wet	1988		79.4	55.8-108			
1,4-Dimethyl-2,3-Dinitrobenzene	1900	200	ug/kg wet	1994		95.2	77-107			
1,4-Dimethyl-2,5-Dinitrobenzene	1900	200	ug/kg wet	2014		94.5	75.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1930	200	ug/kg wet	1984		97.3	77.8-107			
1,5-Dimethyl-2,3-Dinitrobenzene	1870	200	ug/kg wet	2000		93.6	75.4-107			
1,5-Dimethyl-2,4-Dinitrobenzene	1880	200	ug/kg wet	1954		96.3	75-108			
2,3-Dinitrotoluene	1810	200	ug/kg wet	1988		90.8	69.8-112			
2,4,6-Trinitrotoluene	1760	200	ug/kg wet	1988		88.6	63.4-111			

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107163 - EPA 3570

LCS (A107163-BS1)

Prepared: 07/06/2021 Analyzed: 07/07/2021 06:03

2,4-Dinitrotoluene	1920	200	ug/kg wet	1988		96.5	69.4-113			
2,5-Dinitrotoluene	1790	200	ug/kg wet	1988		89.9	67-107			
2,6-Dinitrotoluene	1810	200	ug/kg wet	1988		91.0	75.3-108			
2-Amino-4,6-dinitrotoluene	1800	200	ug/kg wet	1988		90.8	61.9-106			
2-Nitrotoluene	1840	200	ug/kg wet	1988		92.5	75.3-111			
3,4-Dinitrotoluene	1880	99	ug/kg wet	1988		94.6	72.4-108			D
3,5-Dinitroaniline	1820	200	ug/kg wet	1988		91.5	61-107			
3,5-Dinitrotoluene	1910	200	ug/kg wet	1988		96.3	72.2-111			
3-Nitrotoluene	1800	200	ug/kg wet	1988		90.6	77.4-107			
4-Amino-2,6-dinitrotoluene	1670	200	ug/kg wet	1988		83.9	51.7-110			
4-Nitrotoluene	1800	200	ug/kg wet	1988		90.4	79.1-108			
Nitrobenzene	1840	200	ug/kg wet	1988		92.3	80.5-109			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1760</i>		<i>ug/kg wet</i>	<i>1932</i>		<i>91.1</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1710</i>		<i>ug/kg wet</i>	<i>1988</i>		<i>86.0</i>	<i>67.8-100</i>			

Matrix Spike (A107163-MS1)

Source: A212525-41

Prepared: 07/06/2021 Analyzed: 07/07/2021 05:00

1,2-Dimethyl-3,4-Dinitrobenzene	1930	200	ug/kg dry	1998	ND	96.5	70.9-106			
1,2-Dimethyl-3,5-Dinitrobenzene	1870	200	ug/kg dry	2022	ND	92.7	68.2-104			
1,2-Dimethyl-3,6-Dinitrobenzene	2020	200	ug/kg dry	2001	ND	101	75.9-109			
1,2-Dimethyl-4,5-Dinitrobenzene	1900	200	ug/kg dry	2028	ND	93.8	65-112			
1,3,5-Trinitrobenzene	1320	200	ug/kg dry	2002	ND	65.8	37.4-108			
1,3-Dimethyl-2,4-Dinitrobenzene	1960	200	ug/kg dry	2022	ND	96.8	69.5-109			
1,3-Dimethyl-2,5-Dinitrobenzene	1990	200	ug/kg dry	2004	ND	99.3	76.2-108			
1,3-Dinitrobenzene	1620	200	ug/kg dry	2002	ND	81.0	50.2-106			
1,4-Dimethyl-2,3-Dinitrobenzene	2000	200	ug/kg dry	2008	ND	99.6	72.3-106			
1,4-Dimethyl-2,5-Dinitrobenzene	1960	200	ug/kg dry	2028	ND	96.4	71.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1980	200	ug/kg dry	1998	ND	99.0	74-108			
1,5-Dimethyl-2,3-Dinitrobenzene	1860	200	ug/kg dry	2014	ND	92.5	67.9-106			
1,5-Dimethyl-2,4-Dinitrobenzene	1960	200	ug/kg dry	1968	ND	99.5	69.2-109			
2,3-Dinitrotoluene	1840	200	ug/kg dry	2002	ND	92.2	66.9-107			
2,4,6-Trinitrotoluene	1840	200	ug/kg dry	2002	ND	91.8	20.9-161			
2,4-Dinitrotoluene	1980	200	ug/kg dry	2002	ND	99.1	63.6-113			
2,5-Dinitrotoluene	1840	200	ug/kg dry	2002	ND	92.0	61.4-109			
2,6-Dinitrotoluene	1890	200	ug/kg dry	2002	ND	94.6	68-110			
2-Amino-4,6-dinitrotoluene	1740	200	ug/kg dry	2002	ND	87.1	31-124			
2-Nitrotoluene	1900	200	ug/kg dry	2002	ND	95.1	70.7-115			
3,4-Dinitrotoluene	1940	100	ug/kg dry	2002	ND	96.9	70-104			D
3,5-Dinitroaniline	1730	200	ug/kg dry	2002	ND	86.5	41.8-112			
3,5-Dinitrotoluene	1950	200	ug/kg dry	2002	ND	97.3	68.4-110			
3-Nitrotoluene	1870	200	ug/kg dry	2002	ND	93.2	74.4-110			
4-Amino-2,6-dinitrotoluene	1640	200	ug/kg dry	2002	ND	81.8	27.9-131			
4-Nitrotoluene	1890	200	ug/kg dry	2002	ND	94.2	75.5-110			
Nitrobenzene	1900	200	ug/kg dry	2002	ND	95.1	76.1-111			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1790</i>		<i>ug/kg dry</i>	<i>1945</i>		<i>92.2</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1810</i>		<i>ug/kg dry</i>	<i>2002</i>		<i>90.2</i>	<i>67.8-100</i>			

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107163 - EPA 3570

Matrix Spike Dup (A107163-MSD1)

Source: A212525-41

Prepared: 07/06/2021

Analyzed: 07/07/2021 05:31

1,2-Dimethyl-3,4-Dinitrobenzene	1840	200	ug/kg dry	1998	ND	91.9	70.9-106	4.86	20	
1,2-Dimethyl-3,5-Dinitrobenzene	1790	200	ug/kg dry	2022	ND	88.7	68.2-104	4.43	20	
1,2-Dimethyl-3,6-Dinitrobenzene	1960	200	ug/kg dry	2001	ND	98.1	75.9-109	3.08	20	
1,2-Dimethyl-4,5-Dinitrobenzene	1830	200	ug/kg dry	2028	ND	90.3	65-112	3.78	20	
1,3,5-Trinitrobenzene	1370	200	ug/kg dry	2002	ND	68.5	37.4-108	4.06	20	
1,3-Dimethyl-2,4-Dinitrobenzene	1860	200	ug/kg dry	2022	ND	92.0	69.5-109	5.03	20	
1,3-Dimethyl-2,5-Dinitrobenzene	1910	200	ug/kg dry	2004	ND	95.3	76.2-108	4.09	20	
1,3-Dinitrobenzene	1590	200	ug/kg dry	2002	ND	79.2	50.2-106	2.22	20	
1,4-Dimethyl-2,3-Dinitrobenzene	1900	200	ug/kg dry	2008	ND	94.8	72.3-106	4.89	20	
1,4-Dimethyl-2,5-Dinitrobenzene	1890	200	ug/kg dry	2028	ND	93.0	71.6-108	3.59	20	
1,4-Dimethyl-2,6-Dinitrobenzene	1900	200	ug/kg dry	1998	ND	95.1	74-108	4.02	20	
1,5-Dimethyl-2,3-Dinitrobenzene	1770	200	ug/kg dry	2014	ND	87.8	67.9-106	5.18	20	
1,5-Dimethyl-2,4-Dinitrobenzene	1890	200	ug/kg dry	1968	ND	95.8	69.2-109	3.85	20	
2,3-Dinitrotoluene	1770	200	ug/kg dry	2002	ND	88.5	66.9-107	4.03	20	
2,4,6-Trinitrotoluene	1770	200	ug/kg dry	2002	ND	88.5	20.9-161	3.63	20	
2,4-Dinitrotoluene	1910	200	ug/kg dry	2002	ND	95.4	63.6-113	3.78	20	
2,5-Dinitrotoluene	1800	200	ug/kg dry	2002	ND	89.9	61.4-109	2.29	20	
2,6-Dinitrotoluene	1810	200	ug/kg dry	2002	ND	90.3	68-110	4.70	20	
2-Amino-4,6-dinitrotoluene	1730	200	ug/kg dry	2002	ND	86.4	31-124	0.715	20	
2-Nitrotoluene	1840	200	ug/kg dry	2002	ND	91.7	70.7-115	3.60	20	
3,4-Dinitrotoluene	1870	100	ug/kg dry	2002	ND	93.5	70-104	3.54	20	D
3,5-Dinitroaniline	1740	200	ug/kg dry	2002	ND	87.1	41.8-112	0.688	20	
3,5-Dinitrotoluene	1900	200	ug/kg dry	2002	ND	95.1	68.4-110	2.26	20	
3-Nitrotoluene	1800	200	ug/kg dry	2002	ND	89.9	74.4-110	3.69	20	
4-Amino-2,6-dinitrotoluene	1630	200	ug/kg dry	2002	ND	81.5	27.9-131	0.347	20	
4-Nitrotoluene	1810	200	ug/kg dry	2002	ND	90.4	75.5-110	4.11	20	
Nitrobenzene	1840	200	ug/kg dry	2002	ND	91.8	76.1-111	3.54	20	
Surrogate: 2,2'-Dinitrobiphenyl	1690		ug/kg dry	1945		87.0	10-116			
Surrogate: Nitrobenzene-d5	1730		ug/kg dry	2002		86.6	67.8-100			

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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107164 - EPA 3570

Blank (A107164-BLK1)

Prepared: 07/06/2021 Analyzed: 07/07/2021 15:51

1,2-Dimethyl-3,4-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,5-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,6-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-4,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,6-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
2,3-Dinitrotoluene	ND	200	ug/kg wet							
2,4,6-Trinitrotoluene	ND	200	ug/kg wet							
2,4-Dinitrotoluene	ND	200	ug/kg wet							
2,5-Dinitrotoluene	ND	200	ug/kg wet							
2,6-Dinitrotoluene	ND	200	ug/kg wet							
2-Amino-4,6-dinitrotoluene	ND	200	ug/kg wet							
2-Nitrotoluene	ND	200	ug/kg wet							
3,4-Dinitrotoluene	ND	200	ug/kg wet							
3,5-Dinitroaniline	ND	200	ug/kg wet							
3,5-Dinitrotoluene	ND	200	ug/kg wet							
3-Nitrotoluene	ND	200	ug/kg wet							
4-Amino-2,6-dinitrotoluene	ND	200	ug/kg wet							
4-Nitrotoluene	ND	200	ug/kg wet							
Nitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitro-2,4-dimethylbenzene	ND	200	ug/kg wet							
<i>Surrogate: 2,2'-Dinitrophenyl</i>	<i>1300</i>		<i>ug/kg wet</i>	<i>1935</i>		<i>67.4</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1760</i>		<i>ug/kg wet</i>	<i>1992</i>		<i>88.2</i>	<i>67.8-100</i>			

LCS (A107164-BS1)

Prepared: 07/06/2021 Analyzed: 07/07/2021 20:37

1,2-Dimethyl-3,4-Dinitrobenzene	1850	200	ug/kg wet	1980		93.6	78.3-107			
1,2-Dimethyl-3,5-Dinitrobenzene	1810	200	ug/kg wet	2004		90.5	74.3-103			
1,2-Dimethyl-3,6-Dinitrobenzene	1930	200	ug/kg wet	1983		97.5	79.8-108			
1,2-Dimethyl-4,5-Dinitrobenzene	1850	200	ug/kg wet	2010		92.0	74.3-108			
1,3,5-Trinitrobenzene	1350	200	ug/kg wet	1984		68.1	45.5-107			
1,3-Dimethyl-2,4-Dinitrobenzene	1870	200	ug/kg wet	2004		93.4	75-106			
1,3-Dimethyl-2,5-Dinitrobenzene	1900	200	ug/kg wet	1986		95.6	78.9-108			
1,3-Dinitrobenzene	1600	200	ug/kg wet	1984		80.9	55.8-108			
1,4-Dimethyl-2,3-Dinitrobenzene	1860	200	ug/kg wet	1990		93.5	77-107			
1,4-Dimethyl-2,5-Dinitrobenzene	1900	200	ug/kg wet	2010		94.3	75.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1910	200	ug/kg wet	1980		96.4	77.8-107			
1,5-Dimethyl-2,3-Dinitrobenzene	1800	200	ug/kg wet	1996		90.4	75.4-107			
1,5-Dimethyl-2,4-Dinitrobenzene	1860	200	ug/kg wet	1950		95.3	75-108			
2,3-Dinitrotoluene	1800	200	ug/kg wet	1984		90.7	69.8-112			
2,4,6-Trinitrotoluene	1730	200	ug/kg wet	1984		87.0	63.4-111			

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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107164 - EPA 3570

LCS (A107164-BS1)

Prepared: 07/06/2021 Analyzed: 07/07/2021 20:37

2,4-Dinitrotoluene	1900	200	ug/kg wet	1984		95.9	69.4-113			
2,5-Dinitrotoluene	1820	200	ug/kg wet	1984		91.9	67-107			
2,6-Dinitrotoluene	1790	200	ug/kg wet	1984		90.2	75.3-108			
2-Amino-4,6-dinitrotoluene	1800	200	ug/kg wet	1984		90.8	61.9-106			
2-Nitrotoluene	1810	200	ug/kg wet	1984		91.2	75.3-111			
3,4-Dinitrotoluene	1880	99	ug/kg wet	1984		94.8	72.4-108			D
3,5-Dinitroaniline	1790	200	ug/kg wet	1984		90.4	61-107			
3,5-Dinitrotoluene	1890	200	ug/kg wet	1984		95.3	72.2-111			
3-Nitrotoluene	1780	200	ug/kg wet	1984		89.7	77.4-107			
4-Amino-2,6-dinitrotoluene	1650	200	ug/kg wet	1984		83.3	51.7-110			
4-Nitrotoluene	1780	200	ug/kg wet	1984		89.7	79.1-108			
Nitrobenzene	1790	200	ug/kg wet	1984		90.1	80.5-109			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1740</i>		<i>ug/kg wet</i>	<i>1928</i>		<i>90.1</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1710</i>		<i>ug/kg wet</i>	<i>1984</i>		<i>86.1</i>	<i>67.8-100</i>			

Matrix Spike (A107164-MS1)

Source: A212612-11

Prepared: 07/06/2021 Analyzed: 07/07/2021 19:34

1,2-Dimethyl-3,4-Dinitrobenzene	1860	200	ug/kg dry	2016	ND	92.3	70.9-106			
1,2-Dimethyl-3,5-Dinitrobenzene	1830	200	ug/kg dry	2040	ND	89.5	68.2-104			
1,2-Dimethyl-3,6-Dinitrobenzene	1940	200	ug/kg dry	2019	ND	96.0	75.9-109			
1,2-Dimethyl-4,5-Dinitrobenzene	1850	200	ug/kg dry	2046	ND	90.3	65-112			
1,3,5-Trinitrobenzene	1270	200	ug/kg dry	2020	ND	63.1	37.4-108			
1,3-Dimethyl-2,4-Dinitrobenzene	1860	200	ug/kg dry	2040	ND	91.4	69.5-109			
1,3-Dimethyl-2,5-Dinitrobenzene	1940	200	ug/kg dry	2022	ND	95.7	76.2-108			
1,3-Dinitrobenzene	1570	200	ug/kg dry	2020	ND	77.6	50.2-106			
1,4-Dimethyl-2,3-Dinitrobenzene	1890	200	ug/kg dry	2026	ND	93.1	72.3-106			
1,4-Dimethyl-2,5-Dinitrobenzene	1890	200	ug/kg dry	2046	ND	92.4	71.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1910	200	ug/kg dry	2016	ND	95.0	74-108			
1,5-Dimethyl-2,3-Dinitrobenzene	1800	200	ug/kg dry	2032	ND	88.4	67.9-106			
1,5-Dimethyl-2,4-Dinitrobenzene	1870	200	ug/kg dry	1985	ND	94.3	69.2-109			
2,3-Dinitrotoluene	1760	200	ug/kg dry	2020	ND	87.1	66.9-107			
2,4,6-Trinitrotoluene	2380	200	ug/kg dry	2020	196	108	20.9-161			
2,4-Dinitrotoluene	1900	200	ug/kg dry	2020	ND	93.9	63.6-113			
2,5-Dinitrotoluene	1810	200	ug/kg dry	2020	ND	89.6	61.4-109			
2,6-Dinitrotoluene	1790	200	ug/kg dry	2020	ND	88.6	68-110			
2-Amino-4,6-dinitrotoluene	1780	200	ug/kg dry	2020	161	80.0	31-124			
2-Nitrotoluene	1830	200	ug/kg dry	2020	ND	90.4	70.7-115			
3,4-Dinitrotoluene	1820	100	ug/kg dry	2020	ND	90.1	70-104			D
3,5-Dinitroaniline	1750	200	ug/kg dry	2020	ND	86.8	41.8-112			
3,5-Dinitrotoluene	1900	200	ug/kg dry	2020	ND	94.1	68.4-110			
3-Nitrotoluene	1800	200	ug/kg dry	2020	ND	89.4	74.4-110			
4-Amino-2,6-dinitrotoluene	1690	200	ug/kg dry	2020	162	75.7	27.9-131			
4-Nitrotoluene	1820	200	ug/kg dry	2020	ND	90.1	75.5-110			
Nitrobenzene	1810	200	ug/kg dry	2020	ND	89.5	76.1-111			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1800</i>		<i>ug/kg dry</i>	<i>1962</i>		<i>91.7</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1730</i>		<i>ug/kg dry</i>	<i>2020</i>		<i>85.8</i>	<i>67.8-100</i>			

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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107164 - EPA 3570

Matrix Spike Dup (A107164-MSD1)	Source: A212612-11		Prepared: 07/06/2021		Analyzed: 07/07/2021 20:05					
1,2-Dimethyl-3,4-Dinitrobenzene	1800	200	ug/kg dry	2032	ND	88.7	70.9-106	3.17	20	
1,2-Dimethyl-3,5-Dinitrobenzene	1780	200	ug/kg dry	2056	ND	86.4	68.2-104	2.75	20	
1,2-Dimethyl-3,6-Dinitrobenzene	1930	200	ug/kg dry	2035	ND	94.9	75.9-109	0.321	20	
1,2-Dimethyl-4,5-Dinitrobenzene	1850	200	ug/kg dry	2062	ND	89.5	65-112	0.0174	20	
1,3,5-Trinitrobenzene	1190	200	ug/kg dry	2036	ND	58.6	37.4-108	6.68	20	
1,3-Dimethyl-2,4-Dinitrobenzene	1860	200	ug/kg dry	2056	ND	90.6	69.5-109	0.111	20	
1,3-Dimethyl-2,5-Dinitrobenzene	1890	200	ug/kg dry	2038	ND	92.9	76.2-108	2.16	20	
1,3-Dinitrobenzene	1540	200	ug/kg dry	2036	ND	75.4	50.2-106	2.01	20	
1,4-Dimethyl-2,3-Dinitrobenzene	1850	200	ug/kg dry	2042	ND	90.7	72.3-106	1.90	20	
1,4-Dimethyl-2,5-Dinitrobenzene	1870	200	ug/kg dry	2062	ND	90.6	71.6-108	1.24	20	
1,4-Dimethyl-2,6-Dinitrobenzene	1890	200	ug/kg dry	2032	ND	93.1	74-108	1.16	20	
1,5-Dimethyl-2,3-Dinitrobenzene	1780	200	ug/kg dry	2048	ND	87.0	67.9-106	0.860	20	
1,5-Dimethyl-2,4-Dinitrobenzene	1850	200	ug/kg dry	2001	ND	92.2	69.2-109	1.40	20	
2,3-Dinitrotoluene	1710	200	ug/kg dry	2036	ND	84.1	66.9-107	2.78	20	
2,4,6-Trinitrotoluene	2400	200	ug/kg dry	2036	196	108	20.9-161	0.796	20	
2,4-Dinitrotoluene	1890	200	ug/kg dry	2036	ND	92.6	63.6-113	0.544	20	
2,5-Dinitrotoluene	1760	200	ug/kg dry	2036	ND	86.3	61.4-109	3.00	20	
2,6-Dinitrotoluene	1760	200	ug/kg dry	2036	ND	86.6	68-110	1.55	20	
2-Amino-4,6-dinitrotoluene	1660	200	ug/kg dry	2036	161	73.7	31-124	6.66	20	
2-Nitrotoluene	1810	200	ug/kg dry	2036	ND	89.1	70.7-115	0.653	20	
3,4-Dinitrotoluene	1800	100	ug/kg dry	2036	ND	88.2	70-104	1.37	20	D
3,5-Dinitroaniline	1660	200	ug/kg dry	2036	ND	81.6	41.8-112	5.37	20	
3,5-Dinitrotoluene	1870	200	ug/kg dry	2036	ND	91.8	68.4-110	1.70	20	
3-Nitrotoluene	1770	200	ug/kg dry	2036	ND	87.0	74.4-110	1.90	20	
4-Amino-2,6-dinitrotoluene	1590	200	ug/kg dry	2036	162	69.9	27.9-131	6.49	20	
4-Nitrotoluene	1760	200	ug/kg dry	2036	ND	86.6	75.5-110	3.19	20	
Nitrobenzene	1780	200	ug/kg dry	2036	ND	87.3	76.1-111	1.75	20	
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1790</i>		<i>ug/kg dry</i>	<i>1978</i>		<i>90.6</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1750</i>		<i>ug/kg dry</i>	<i>2036</i>		<i>85.9</i>	<i>67.8-100</i>			

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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107165 - EPA 3570

Blank (A107165-BLK1)

Prepared: 07/07/2021 Analyzed: 07/08/2021 05:38

1,2-Dimethyl-3,4-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,5-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,6-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-4,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,6-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
2,3-Dinitrotoluene	ND	200	ug/kg wet							
2,4,6-Trinitrotoluene	ND	200	ug/kg wet							
2,4-Dinitrotoluene	ND	200	ug/kg wet							
2,5-Dinitrotoluene	ND	200	ug/kg wet							
2,6-Dinitrotoluene	ND	200	ug/kg wet							
2-Amino-4,6-dinitrotoluene	ND	200	ug/kg wet							
2-Nitrotoluene	ND	200	ug/kg wet							
3,4-Dinitrotoluene	ND	200	ug/kg wet							
3,5-Dinitroaniline	ND	200	ug/kg wet							
3,5-Dinitrotoluene	ND	200	ug/kg wet							
3-Nitrotoluene	ND	200	ug/kg wet							
4-Amino-2,6-dinitrotoluene	ND	200	ug/kg wet							
4-Nitrotoluene	ND	200	ug/kg wet							
Nitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitro-2,4-dimethylbenzene	ND	200	ug/kg wet							
<i>Surrogate: 2,2'-Dinitrophenyl</i>	<i>942</i>		<i>ug/kg wet</i>	<i>1943</i>		<i>48.5</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1750</i>		<i>ug/kg wet</i>	<i>2000</i>		<i>87.4</i>	<i>67.8-100</i>			

LCS (A107165-BS1)

Prepared: 07/07/2021 Analyzed: 07/08/2021 17:19

1,2-Dimethyl-3,4-Dinitrobenzene	1910	200	ug/kg wet	1996		95.8	78.3-107			
1,2-Dimethyl-3,5-Dinitrobenzene	1900	200	ug/kg wet	2020		94.1	74.3-103			
1,2-Dimethyl-3,6-Dinitrobenzene	1980	200	ug/kg wet	1999		99.2	79.8-108			
1,2-Dimethyl-4,5-Dinitrobenzene	1990	200	ug/kg wet	2026		98.2	74.3-108			
1,3,5-Trinitrobenzene	1400	200	ug/kg wet	2000		70.2	45.5-107			
1,3-Dimethyl-2,4-Dinitrobenzene	1900	200	ug/kg wet	2020		94.2	75-106			
1,3-Dimethyl-2,5-Dinitrobenzene	1930	200	ug/kg wet	2002		96.5	78.9-108			
1,3-Dinitrobenzene	1630	200	ug/kg wet	2000		81.5	55.8-108			
1,4-Dimethyl-2,3-Dinitrobenzene	1950	200	ug/kg wet	2006		97.1	77-107			
1,4-Dimethyl-2,5-Dinitrobenzene	1900	200	ug/kg wet	2026		93.7	75.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1930	200	ug/kg wet	1996		96.6	77.8-107			
1,5-Dimethyl-2,3-Dinitrobenzene	1890	200	ug/kg wet	2012		94.2	75.4-107			
1,5-Dimethyl-2,4-Dinitrobenzene	1920	200	ug/kg wet	1966		97.5	75-108			
2,3-Dinitrotoluene	1880	200	ug/kg wet	2000		94.2	69.8-112			
2,4,6-Trinitrotoluene	1730	200	ug/kg wet	2000		86.5	63.4-111			

AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107165 - EPA 3570

LCS (A107165-BS1)

Prepared: 07/07/2021 Analyzed: 07/08/2021 17:19

2,4-Dinitrotoluene	1860	200	ug/kg wet	2000		93.1	69.4-113			
2,5-Dinitrotoluene	1830	200	ug/kg wet	2000		91.5	67-107			
2,6-Dinitrotoluene	1830	200	ug/kg wet	2000		91.3	75.3-108			
2-Amino-4,6-dinitrotoluene	1840	200	ug/kg wet	2000		92.0	61.9-106			
2-Nitrotoluene	1830	200	ug/kg wet	2000		91.3	75.3-111			
3,4-Dinitrotoluene	1900	100	ug/kg wet	2000		95.0	72.4-108			D
3,5-Dinitroaniline	1760	200	ug/kg wet	2000		88.0	61-107			
3,5-Dinitrotoluene	1950	200	ug/kg wet	2000		97.3	72.2-111			
3-Nitrotoluene	1770	200	ug/kg wet	2000		88.5	77.4-107			
4-Amino-2,6-dinitrotoluene	1760	200	ug/kg wet	2000		87.9	51.7-110			
4-Nitrotoluene	1780	200	ug/kg wet	2000		88.9	79.1-108			
Nitrobenzene	1770	200	ug/kg wet	2000		88.6	80.5-109			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1890</i>		<i>ug/kg wet</i>	<i>1943</i>		<i>97.3</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1730</i>		<i>ug/kg wet</i>	<i>2000</i>		<i>86.4</i>	<i>67.8-100</i>			

Matrix Spike (A107165-MS1)

Source: A212612-31

Prepared: 07/07/2021 Analyzed: 07/08/2021 16:15

1,2-Dimethyl-3,4-Dinitrobenzene	1890	200	ug/kg dry	2040	ND	92.8	70.9-106			
1,2-Dimethyl-3,5-Dinitrobenzene	1890	200	ug/kg dry	2064	ND	91.6	68.2-104			
1,2-Dimethyl-3,6-Dinitrobenzene	2020	200	ug/kg dry	2043	ND	98.8	75.9-109			
1,2-Dimethyl-4,5-Dinitrobenzene	1960	200	ug/kg dry	2070	ND	94.8	65-112			
1,3,5-Trinitrobenzene	1300	200	ug/kg dry	2044	ND	63.6	37.4-108			
1,3-Dimethyl-2,4-Dinitrobenzene	1920	200	ug/kg dry	2064	ND	92.8	69.5-109			
1,3-Dimethyl-2,5-Dinitrobenzene	1970	200	ug/kg dry	2046	ND	96.4	76.2-108			
1,3-Dinitrobenzene	1530	200	ug/kg dry	2044	ND	74.8	50.2-106			
1,4-Dimethyl-2,3-Dinitrobenzene	1970	200	ug/kg dry	2050	ND	96.0	72.3-106			
1,4-Dimethyl-2,5-Dinitrobenzene	1950	200	ug/kg dry	2070	ND	94.1	71.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1950	200	ug/kg dry	2040	ND	95.6	74-108			
1,5-Dimethyl-2,3-Dinitrobenzene	1870	200	ug/kg dry	2056	ND	90.9	67.9-106			
1,5-Dimethyl-2,4-Dinitrobenzene	1930	200	ug/kg dry	2009	ND	96.2	69.2-109			
2,3-Dinitrotoluene	1840	200	ug/kg dry	2044	ND	89.8	66.9-107			
2,4,6-Trinitrotoluene	4300	200	ug/kg dry	2044	244	199	20.9-161			M
2,4-Dinitrotoluene	1880	200	ug/kg dry	2044	ND	92.1	63.6-113			
2,5-Dinitrotoluene	1790	200	ug/kg dry	2044	ND	87.7	61.4-109			
2,6-Dinitrotoluene	1800	200	ug/kg dry	2044	ND	88.2	68-110			
2-Amino-4,6-dinitrotoluene	1910	200	ug/kg dry	2044	179	84.6	31-124			
2-Nitrotoluene	1870	200	ug/kg dry	2044	ND	91.6	70.7-115			
3,4-Dinitrotoluene	1880	100	ug/kg dry	2044	ND	91.9	70-104			D
3,5-Dinitroaniline	1710	200	ug/kg dry	2044	ND	83.7	41.8-112			
3,5-Dinitrotoluene	1930	200	ug/kg dry	2044	ND	94.3	68.4-110			
3-Nitrotoluene	1820	200	ug/kg dry	2044	ND	88.9	74.4-110			
4-Amino-2,6-dinitrotoluene	1890	200	ug/kg dry	2044	179	83.5	27.9-131			
4-Nitrotoluene	1850	200	ug/kg dry	2044	ND	90.3	75.5-110			
Nitrobenzene	1850	200	ug/kg dry	2044	ND	90.3	76.1-111			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1880</i>		<i>ug/kg dry</i>	<i>1986</i>		<i>94.6</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1790</i>		<i>ug/kg dry</i>	<i>2044</i>		<i>87.5</i>	<i>67.8-100</i>			

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Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107165 - EPA 3570

Matrix Spike Dup (A107165-MSD1)

Source: A212612-31

Prepared: 07/07/2021

Analyzed: 07/08/2021 16:47

1,2-Dimethyl-3,4-Dinitrobenzene	1840	200	ug/kg dry	2035	ND	90.4	70.9-106	2.74	20	
1,2-Dimethyl-3,5-Dinitrobenzene	1870	200	ug/kg dry	2060	ND	90.6	68.2-104	1.25	20	
1,2-Dimethyl-3,6-Dinitrobenzene	2010	200	ug/kg dry	2039	ND	98.8	75.9-109	0.130	20	
1,2-Dimethyl-4,5-Dinitrobenzene	1930	200	ug/kg dry	2066	ND	93.2	65-112	1.86	20	
1,3,5-Trinitrobenzene	1370	200	ug/kg dry	2040	ND	67.3	37.4-108	5.55	20	
1,3-Dimethyl-2,4-Dinitrobenzene	1960	200	ug/kg dry	2060	ND	95.0	69.5-109	2.16	20	
1,3-Dimethyl-2,5-Dinitrobenzene	1980	200	ug/kg dry	2042	ND	96.8	76.2-108	0.223	20	
1,3-Dinitrobenzene	1620	200	ug/kg dry	2040	ND	79.6	50.2-106	6.02	20	
1,4-Dimethyl-2,3-Dinitrobenzene	1930	200	ug/kg dry	2046	ND	94.2	72.3-106	2.08	20	
1,4-Dimethyl-2,5-Dinitrobenzene	1960	200	ug/kg dry	2066	ND	94.9	71.6-108	0.636	20	
1,4-Dimethyl-2,6-Dinitrobenzene	1950	200	ug/kg dry	2035	ND	95.7	74-108	0.116	20	
1,5-Dimethyl-2,3-Dinitrobenzene	1820	200	ug/kg dry	2052	ND	88.6	67.9-106	2.84	20	
1,5-Dimethyl-2,4-Dinitrobenzene	1960	200	ug/kg dry	2005	ND	97.9	69.2-109	1.55	20	
2,3-Dinitrotoluene	1920	200	ug/kg dry	2040	ND	94.3	66.9-107	4.64	20	
2,4,6-Trinitrotoluene	2770	200	ug/kg dry	2040	244	124	20.9-161	43.2	20	X
2,4-Dinitrotoluene	1850	200	ug/kg dry	2040	ND	90.7	63.6-113	1.82	20	
2,5-Dinitrotoluene	1860	200	ug/kg dry	2040	ND	91.3	61.4-109	3.78	20	
2,6-Dinitrotoluene	1820	200	ug/kg dry	2040	ND	89.5	68-110	1.18	20	
2-Amino-4,6-dinitrotoluene	1920	200	ug/kg dry	2040	179	85.4	31-124	0.705	20	
2-Nitrotoluene	1850	200	ug/kg dry	2040	ND	90.9	70.7-115	1.00	20	
3,4-Dinitrotoluene	1880	100	ug/kg dry	2040	ND	92.2	70-104	0.196	20	D
3,5-Dinitroaniline	1730	200	ug/kg dry	2040	ND	84.6	41.8-112	0.866	20	
3,5-Dinitrotoluene	1970	200	ug/kg dry	2040	ND	96.4	68.4-110	2.05	20	
3-Nitrotoluene	1810	200	ug/kg dry	2040	ND	88.9	74.4-110	0.240	20	
4-Amino-2,6-dinitrotoluene	1950	200	ug/kg dry	2040	179	86.7	27.9-131	3.30	20	
4-Nitrotoluene	1830	200	ug/kg dry	2040	ND	89.8	75.5-110	0.782	20	
Nitrobenzene	1810	200	ug/kg dry	2040	ND	88.9	76.1-111	1.73	20	
Surrogate: 2,2'-Dinitrobiphenyl	1920		ug/kg dry	1982		96.7	10-116			
Surrogate: Nitrobenzene-d5	1770		ug/kg dry	2040		86.7	67.8-100			

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Explosive Compounds by EPA Method 8270 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107171 - EPA 3570

Blank (A107171-BLK1)

Prepared: 07/09/2021 Analyzed: 07/09/2021 13:21

1,2-Dimethyl-3,4-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,5-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-3,6-Dinitrobenzene	ND	200	ug/kg wet							
1,2-Dimethyl-4,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,5-Dinitrobenzene	ND	200	ug/kg wet							
1,4-Dimethyl-2,6-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,3-Dinitrobenzene	ND	200	ug/kg wet							
1,5-Dimethyl-2,4-Dinitrobenzene	ND	200	ug/kg wet							
2,3-Dinitrotoluene	ND	200	ug/kg wet							
2,4,6-Trinitrotoluene	ND	200	ug/kg wet							
2,4-Dinitrotoluene	ND	200	ug/kg wet							
2,5-Dinitrotoluene	ND	200	ug/kg wet							
2,6-Dinitrotoluene	ND	200	ug/kg wet							
2-Amino-4,6-dinitrotoluene	ND	200	ug/kg wet							
2-Nitrotoluene	ND	200	ug/kg wet							
3,4-Dinitrotoluene	ND	200	ug/kg wet							
3,5-Dinitroaniline	ND	200	ug/kg wet							
3,5-Dinitrotoluene	ND	200	ug/kg wet							
3-Nitrotoluene	ND	200	ug/kg wet							
4-Amino-2,6-dinitrotoluene	ND	200	ug/kg wet							
4-Nitrotoluene	ND	200	ug/kg wet							
Nitrobenzene	ND	200	ug/kg wet							
1,3,5-Trinitro-2,4-dimethylbenzene	ND	200	ug/kg wet							
<i>Surrogate: 2,2'-Dinitrophenyl</i>	<i>1010</i>		<i>ug/kg wet</i>	<i>1943</i>		<i>51.8</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1790</i>		<i>ug/kg wet</i>	<i>2000</i>		<i>89.5</i>	<i>67.8-100</i>			

LCS (A107171-BS1)

Prepared: 07/09/2021 Analyzed: 07/09/2021 17:04

1,2-Dimethyl-3,4-Dinitrobenzene	1850	200	ug/kg wet	1996		92.9	78.3-107			
1,2-Dimethyl-3,5-Dinitrobenzene	1810	200	ug/kg wet	2020		89.4	74.3-103			
1,2-Dimethyl-3,6-Dinitrobenzene	1970	200	ug/kg wet	1999		98.4	79.8-108			
1,2-Dimethyl-4,5-Dinitrobenzene	1900	200	ug/kg wet	2026		93.7	74.3-108			
1,3,5-Trinitrobenzene	1290	200	ug/kg wet	2000		64.3	45.5-107			
1,3-Dimethyl-2,4-Dinitrobenzene	1870	200	ug/kg wet	2020		92.4	75-106			
1,3-Dimethyl-2,5-Dinitrobenzene	1930	200	ug/kg wet	2002		96.5	78.9-108			
1,3-Dinitrobenzene	1540	200	ug/kg wet	2000		77.2	55.8-108			
1,4-Dimethyl-2,3-Dinitrobenzene	1940	200	ug/kg wet	2006		96.9	77-107			
1,4-Dimethyl-2,5-Dinitrobenzene	1910	200	ug/kg wet	2026		94.3	75.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1950	200	ug/kg wet	1996		97.7	77.8-107			
1,5-Dimethyl-2,3-Dinitrobenzene	1810	200	ug/kg wet	2012		90.2	75.4-107			
1,5-Dimethyl-2,4-Dinitrobenzene	1920	200	ug/kg wet	1966		97.7	75-108			
2,3-Dinitrotoluene	1960	200	ug/kg wet	2000		97.8	69.8-112			
2,4,6-Trinitrotoluene	1570	200	ug/kg wet	2000		78.7	63.4-111			

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Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107171 - EPA 3570

LCS (A107171-BS1)

Prepared: 07/09/2021 Analyzed: 07/09/2021 17:04

2,4-Dinitrotoluene	1770	200	ug/kg wet	2000		88.7	69.4-113			
2,5-Dinitrotoluene	1780	200	ug/kg wet	2000		89.1	67-107			
2,6-Dinitrotoluene	1780	200	ug/kg wet	2000		89.2	75.3-108			
2-Amino-4,6-dinitrotoluene	1610	200	ug/kg wet	2000		80.7	61.9-106			
2-Nitrotoluene	1790	200	ug/kg wet	2000		89.6	75.3-111			
3,4-Dinitrotoluene	1860	100	ug/kg wet	2000		93.2	72.4-108			D
3,5-Dinitroaniline	1440	200	ug/kg wet	2000		72.2	61-107			
3,5-Dinitrotoluene	1930	200	ug/kg wet	2000		96.3	72.2-111			
3-Nitrotoluene	1730	200	ug/kg wet	2000		86.4	77.4-107			
4-Amino-2,6-dinitrotoluene	1530	200	ug/kg wet	2000		76.5	51.7-110			
4-Nitrotoluene	1760	200	ug/kg wet	2000		87.8	79.1-108			
Nitrobenzene	1780	200	ug/kg wet	2000		89.2	80.5-109			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1730</i>		<i>ug/kg wet</i>	<i>1943</i>		<i>88.8</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1680</i>		<i>ug/kg wet</i>	<i>2000</i>		<i>83.9</i>	<i>67.8-100</i>			

Matrix Spike (A107171-MS1)

Source: A212612-51

Prepared: 07/09/2021 Analyzed: 07/09/2021 16:01

1,2-Dimethyl-3,4-Dinitrobenzene	1860	210	ug/kg dry	2059	ND	90.1	70.9-106			
1,2-Dimethyl-3,5-Dinitrobenzene	1820	210	ug/kg dry	2084	ND	87.5	68.2-104			
1,2-Dimethyl-3,6-Dinitrobenzene	2000	210	ug/kg dry	2062	ND	97.0	75.9-109			
1,2-Dimethyl-4,5-Dinitrobenzene	1910	210	ug/kg dry	2090	ND	91.3	65-112			
1,3,5-Trinitrobenzene	1220	210	ug/kg dry	2063	ND	59.4	37.4-108			
1,3-Dimethyl-2,4-Dinitrobenzene	1880	210	ug/kg dry	2084	ND	90.5	69.5-109			
1,3-Dimethyl-2,5-Dinitrobenzene	1970	210	ug/kg dry	2065	ND	95.2	76.2-108			
1,3-Dinitrobenzene	1440	210	ug/kg dry	2063	ND	69.6	50.2-106			
1,4-Dimethyl-2,3-Dinitrobenzene	1960	210	ug/kg dry	2069	ND	94.9	72.3-106			
1,4-Dimethyl-2,5-Dinitrobenzene	1930	210	ug/kg dry	2090	ND	92.2	71.6-108			
1,4-Dimethyl-2,6-Dinitrobenzene	1950	210	ug/kg dry	2059	ND	94.7	74-108			
1,5-Dimethyl-2,3-Dinitrobenzene	1780	210	ug/kg dry	2075	ND	86.0	67.9-106			
1,5-Dimethyl-2,4-Dinitrobenzene	1920	210	ug/kg dry	2028	ND	94.9	69.2-109			
2,3-Dinitrotoluene	1780	210	ug/kg dry	2063	ND	86.3	66.9-107			
2,4,6-Trinitrotoluene	1730	210	ug/kg dry	2063	ND	83.6	20.9-161			
2,4-Dinitrotoluene	1920	210	ug/kg dry	2063	ND	93.1	63.6-113			
2,5-Dinitrotoluene	1780	210	ug/kg dry	2063	ND	86.1	61.4-109			
2,6-Dinitrotoluene	1790	210	ug/kg dry	2063	ND	86.8	68-110			
2-Amino-4,6-dinitrotoluene	1670	210	ug/kg dry	2063	ND	80.9	31-124			
2-Nitrotoluene	1830	210	ug/kg dry	2063	ND	88.7	70.7-115			
3,4-Dinitrotoluene	1880	100	ug/kg dry	2063	ND	91.2	70-104			D
3,5-Dinitroaniline	1530	210	ug/kg dry	2063	ND	74.0	41.8-112			
3,5-Dinitrotoluene	1930	210	ug/kg dry	2063	ND	93.7	68.4-110			
3-Nitrotoluene	1790	210	ug/kg dry	2063	ND	86.5	74.4-110			
4-Amino-2,6-dinitrotoluene	1570	210	ug/kg dry	2063	ND	76.1	27.9-131			
4-Nitrotoluene	1810	210	ug/kg dry	2063	ND	87.5	75.5-110			
Nitrobenzene	1810	210	ug/kg dry	2063	ND	87.6	76.1-111			
<i>Surrogate: 2,2'-Dinitrobiphenyl</i>	<i>1720</i>		<i>ug/kg dry</i>	<i>2005</i>		<i>86.1</i>	<i>10-116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1670</i>		<i>ug/kg dry</i>	<i>2063</i>		<i>80.8</i>	<i>67.8-100</i>			

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Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107171 - EPA 3570

Matrix Spike Dup (A107171-MSD1)

Source: A212612-51

Prepared: 07/09/2021

Analyzed: 07/09/2021 16:32

1,2-Dimethyl-3,4-Dinitrobenzene	1870	210	ug/kg dry	2059	ND	90.9	70.9-106	0.911	20	
1,2-Dimethyl-3,5-Dinitrobenzene	1810	210	ug/kg dry	2084	ND	86.9	68.2-104	0.678	20	
1,2-Dimethyl-3,6-Dinitrobenzene	2010	210	ug/kg dry	2062	ND	97.6	75.9-109	0.605	20	
1,2-Dimethyl-4,5-Dinitrobenzene	1900	210	ug/kg dry	2090	ND	91.1	65-112	0.243	20	
1,3,5-Trinitrobenzene	1210	210	ug/kg dry	2063	ND	58.8	37.4-108	0.916	20	
1,3-Dimethyl-2,4-Dinitrobenzene	1920	210	ug/kg dry	2084	ND	91.9	69.5-109	1.63	20	
1,3-Dimethyl-2,5-Dinitrobenzene	1970	210	ug/kg dry	2065	ND	95.3	76.2-108	0.0566	20	
1,3-Dinitrobenzene	1520	210	ug/kg dry	2063	ND	73.7	50.2-106	5.75	20	
1,4-Dimethyl-2,3-Dinitrobenzene	1960	210	ug/kg dry	2069	ND	94.8	72.3-106	0.120	20	
1,4-Dimethyl-2,5-Dinitrobenzene	1930	210	ug/kg dry	2090	ND	92.2	71.6-108	0.0182	20	
1,4-Dimethyl-2,6-Dinitrobenzene	1950	210	ug/kg dry	2059	ND	94.8	74-108	0.120	20	
1,5-Dimethyl-2,3-Dinitrobenzene	1810	210	ug/kg dry	2075	ND	87.1	67.9-106	1.31	20	
1,5-Dimethyl-2,4-Dinitrobenzene	1930	210	ug/kg dry	2028	ND	95.1	69.2-109	0.213	20	
2,3-Dinitrotoluene	1790	210	ug/kg dry	2063	ND	86.6	66.9-107	0.388	20	
2,4,6-Trinitrotoluene	1630	210	ug/kg dry	2063	ND	79.1	20.9-161	5.57	20	
2,4-Dinitrotoluene	1960	210	ug/kg dry	2063	ND	94.8	63.6-113	1.79	20	
2,5-Dinitrotoluene	1820	210	ug/kg dry	2063	ND	88.2	61.4-109	2.46	20	
2,6-Dinitrotoluene	1820	210	ug/kg dry	2063	ND	88.1	68-110	1.55	20	
2-Amino-4,6-dinitrotoluene	1630	210	ug/kg dry	2063	ND	78.9	31-124	2.49	20	
2-Nitrotoluene	1860	210	ug/kg dry	2063	ND	90.3	70.7-115	1.75	20	
3,4-Dinitrotoluene	1880	100	ug/kg dry	2063	ND	91.2	70-104	0.00	20	D
3,5-Dinitroaniline	1460	210	ug/kg dry	2063	ND	70.7	41.8-112	4.55	20	
3,5-Dinitrotoluene	1950	210	ug/kg dry	2063	ND	94.4	68.4-110	0.695	20	
3-Nitrotoluene	1810	210	ug/kg dry	2063	ND	87.5	74.4-110	1.11	20	
4-Amino-2,6-dinitrotoluene	1550	210	ug/kg dry	2063	ND	75.1	27.9-131	1.33	20	
4-Nitrotoluene	1820	210	ug/kg dry	2063	ND	88.1	75.5-110	0.647	20	
Nitrobenzene	1840	210	ug/kg dry	2063	ND	89.4	76.1-111	2.00	20	
Surrogate: 2,2'-Dinitrobiphenyl	1780		ug/kg dry	2005		88.6	10-116			
Surrogate: Nitrobenzene-d5	1740		ug/kg dry	2063		84.2	67.8-100			

AECOM
 4051 Ogletown Road
 Newark DE, 19713

Project: Site Investigation - Barksdale, WI
 Project Number: 60660855
 Project Manager: Sharon Nordstrom

Classical Chemistry Parameters - Quality Control
Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A107158 - % Solids

Duplicate (A107158-DUP1)	Source: A212521-05		Prepared: 07/06/2021		Analyzed: 07/07/2021 10:50					
% Solids	91.0	0.00	% by Weight		91.1			0.131	20	

Batch A107159 - % Solids

Duplicate (A107159-DUP1)	Source: A212612-02		Prepared: 07/06/2021		Analyzed: 07/07/2021 10:56					
% Solids	98.1	0.00	% by Weight		98.5			0.439	20	

Batch A107160 - % Solids

Duplicate (A107160-DUP1)	Source: A212612-22		Prepared: 07/06/2021		Analyzed: 07/07/2021 11:00					
% Solids	98.1	0.00	% by Weight		98.1			0.0118	20	

Batch A107161 - % Solids

Duplicate (A107161-DUP1)	Source: A212612-42		Prepared: 07/06/2021		Analyzed: 07/09/2021 11:59					
% Solids	98.1	0.00	% by Weight		96.1			2.03	20	

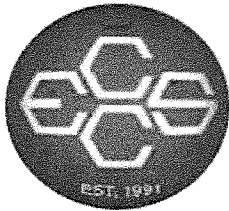
AECOM
4051 Ogletown Road
Newark DE, 19713

Project: Site Investigation - Barksdale, WI
Project Number: 60660855
Project Manager: Sharon Nordstrom

Notes and Definitions

- X Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
- M The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
- LC Results may be biased low because of low continuing calibration verification (CCV).
- J Analyte was detected but is below the reporting limit. The concentration is estimated.
- D Data reported from a dilution
- ND Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
- NR Not Reported
- dry Sample results reported on a dry weight basis. Detection limits (if listed) and reporting limits have been adjusted for the solids content. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
- RPD Relative Percent Difference

Detection limits (if listed) and reporting limits have been adjusted for dilutions, if reported.



Environmental Chemistry Consulting Services, Inc.
 2525 Advance Road
 Madison, WI 53718
 608-221-8700 (phone)
 608-221-4889 (fax)

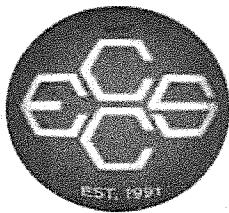
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CHAIN OF CUSTODY

7741188500B

Project Number: 60660855				Lab Work Order #: A212612				Mail Report To: Sharon Nordstrom							
Project Name: Barksdale				Preservation Codes				Company: AECOM							
Project Location: Barksdale, WI				Analyses Requested				Address: 4051 Ogletown Rd							
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 5 BDs <input type="checkbox"/> 3 BDs <input type="checkbox"/> 2 BDs <input type="checkbox"/> 24 hrs				A				E-mail Address: sharon.nordstrom@aecom.com							
If Rush, Report Due Date:								Invoice To:							
Sampled By (Print): Tasha Sook				Matrix				Company: AECOM							
Sample Description				Collection		Total # of Containers		NNOCS		Address:		Tracking #: 7741 1885 0013			
				Date	Time							Comments	Lab ID	Lab Receipt Time	
SITG-210623-021Y(0-3.5)		6/23/2021	13:15	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frozen after collection	01			
SITG-210623-022Y(0-3.5)		6/23/2021	13:17	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		02			
SITG-210623-022X(0-3)		6/23/2021	13:19	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		03			
SITG-210623-023Y(0-3) (0-3.5)		6/23/2021	13:21	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		04			
SITG-210623-023X(0-3)		6/23/2021	13:23	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		05			
SITG-210624-024X(0-5)		6/24/2021	12:15	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		06			
SITG-210624-024C(5-5.5)		6/24/2021	12:17	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		07			
SITG-210624-024W(0-5)		6/24/2021	12:19	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		08			
SITG-210624-024E(0-5)		6/24/2021	12:21	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		09			
SITG-210624-024N(0-5)		6/24/2021	12:23	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		10			
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)		Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*		Relinquished By: Natassja Sook		Date: 6/29/21		Time: 1200		Received By: [Signature]		Date: 6/30/21		Time: 0900	
Matrix Codes A=Air S=Soil W=Water O=Other				Relinquished By:		Date:		Time:		Received By:		Date:		Time:	
				Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Seal #s: PAGE		Shipped Via: FedEx		Receipt Temp: 2.6°C/Ni601A22TA		Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			

Page 73 of 79 A212612 FINAL 07 14 2021 1441

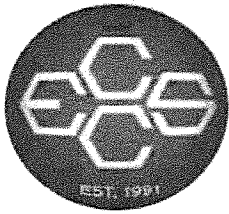


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COOL 1
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CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212612				Mail Report To: Sharon Nordstrom																																																																																																																																																																											
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<td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td>12</td> <td></td> </tr> <tr> <td>SITG-210625-025S(0-3.5)</td> <td>6/25/2021</td> <td>12:52</td> <td>S</td> <td>1</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td>13</td> <td></td> </tr> <tr> <td>SITG-210625-025W(0-3.5)</td> <td>6/25/2021</td> <td>12:55</td> <td>S</td> <td>1</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input 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<td>SITG-210625-027C(3.5-4)</td> <td>6/25/2021</td> <td>13:13</td> <td>S</td> <td>1</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td>20</td> <td></td> </tr> </table>																														SITG-210625-025C(3.5-4)	6/25/2021	12:46	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frozen after collection	11		SITG-210625-025N(0-3.5)	6/25/2021	12:49	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		12		SITG-210625-025S(0-3.5)	6/25/2021	12:52	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		13		SITG-210625-025W(0-3.5)	6/25/2021	12:55	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		14		SITG-210625-025X(0-3.5)	6/25/2021	12:58	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible elevated NNOC	15		SITG-210625-026C(3.5-4)	6/25/2021	13:01	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		16		SITG-210625-026N(0-3.5)	6/25/2021	13:04	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		17		SITG-210625-026S(0-3.5)	6/25/2021	13:07	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		18		SITG-210625-026X(0-3.5)	6/25/2021	13:10	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		19		SITG-210625-027C(3.5-4)	6/25/2021	13:13	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		20	
SITG-210625-025C(3.5-4)	6/25/2021	12:46	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frozen after collection	11																																																																																																																																																																						
SITG-210625-025N(0-3.5)	6/25/2021	12:49	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		12																																																																																																																																																																						
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SITG-210625-025W(0-3.5)	6/25/2021	12:55	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		14																																																																																																																																																																						
SITG-210625-025X(0-3.5)	6/25/2021	12:58	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible elevated NNOC	15																																																																																																																																																																						
SITG-210625-026C(3.5-4)	6/25/2021	13:01	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		16																																																																																																																																																																						
SITG-210625-026N(0-3.5)	6/25/2021	13:04	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		17																																																																																																																																																																						
SITG-210625-026S(0-3.5)	6/25/2021	13:07	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		18																																																																																																																																																																						
SITG-210625-026X(0-3.5)	6/25/2021	13:10	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		19																																																																																																																																																																						
SITG-210625-027C(3.5-4)	6/25/2021	13:13	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		20																																																																																																																																																																						
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)			Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*			Relinquished By: Natassja Sook Date: 6/21/21 Time: 1200		Received By: Mindy Gell Date: 6/30/21 Time: 0900		Relinquished By: Date: Time:		Received By: Date: Time:																																																																																																																																																																							
Matrix Codes A=Air S=Soil W=Water O=Other			Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Seal #s: face		Shipped Via: Fed Ex		Receipt Temp: 2.6°C		Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																																																																																																																																																																								



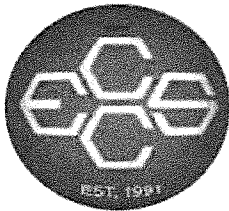
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 608-221-4889 (fax)

*cooler 1 to
 28C, rest in
 cooler 2
 774118850609*

CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212612				Mail Report To: Sharon Nordstrom																							
Project Name: Barksdale				Preservation Codes				Company: AECOM																							
Project Location: Barksdale, WI				Analyses Requested: A				Address: 4051 Ogletown Rd																							
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 5 BDs <input type="checkbox"/> 3 BDs <input type="checkbox"/> 2 BDs <input type="checkbox"/> 24 hrs				<table border="1" style="width:100%; text-align: center;"> <tr><td>Matrix</td><td>Total # of Containers</td><td>NNOCS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>				Matrix	Total # of Containers	NNOCS																		E-mail Address: sharon.nordstrom@aecom.com			
Matrix	Total # of Containers	NNOCS																													
If Rush, Report Due Date:								Invoice To:				Company: AECOM																			
Sampled By (Print): Tasha Sook and Desmond Nielsen				Address:				Tracking#: 77411885 0013																							
Sample Description		Collection		Matrix		Total # of Containers		NNOCS		Comments		Lab ID	Lab Receipt Time																		
		Date	Time																												
SITG-210625-27N(0-3.5)		6/25/2021	13:16	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frozen after collection	21																			
SITG-210625-27S(0-3.5)		6/25/2021	13:19	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		22																			
SITG-210625-27X(0-3.5)		6/25/2021	13:22	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		23																			
SITG-210625-028C(3.5-4)		6/25/2021	13:25	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		24																			
SITG-210625-028N(0-3.5)		6/25/2021	13:28	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		25																			
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SITG-210625-028X(0-3.5)		6/25/2021	13:34	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		27																			
SITG-210625-029C(3.5-4)		6/25/2021	13:37	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		28																			
SITG-210625-029N(0-3.5)		6/25/2021	13:40	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		29																			
SITG-210625-029S(0-3.5)		6/25/2021	13:43	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		30																			
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)		Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*		Relinquished By: <i>Natassja Sook</i> Date: 6/29/21 Time: 1200				Received By: <i>[Signature]</i> Date: 6/30/21 Time: 0900																							
Matrix Codes A=Air S=Soil W=Water O=Other		Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact				Seal #s: <i>Pace</i>		Shipped Via: <i>Fed Ex</i>		Receipt Temp: <i>2.6°C</i>		Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																			

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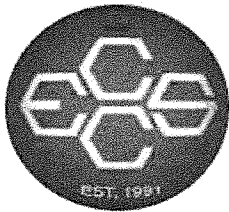


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cooler 2
774 1885 0609

CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212612				Mail Report To: Sharon Nordstrom									
Project Name: Barksdale				Preservation Codes				Company: AECOM									
Project Location: Barksdale, WI				Analyses Requested				Address: 4051 Ogletown Rd									
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 5 BDs <input type="checkbox"/> 3 BDs <input type="checkbox"/> 2 BDs <input type="checkbox"/> 24 hrs				A				E-mail Address: sharon.nordstrom@aecom.com									
If Rush, Report Due Date:								Invoice To:									
Sampled By (Print): Tasha Sook and Desmond Nielsen				Matrix				Company: AECOM									
Sample Description								Total # of Containers				Address:					
				Collection								Tracking #: 774 1885 0609					
		Date		Time		Matrix		Total # of Containers		NNOCS		Comments		Lab ID	Lab Receipt Time		
SITG-210625-029X(0-3.5)		6/25/2021		13:46		S		1		<input checked="" type="checkbox"/>		Frozen after collection		31			
SITG-210625-030C(3.5-4)		6/25/2021		13:49		S		1		<input checked="" type="checkbox"/>		↓		32			
SITG-210625-030N(0-3.5)		6/25/2021		13:52		S		1		<input checked="" type="checkbox"/>				33			
SITG-210625-030S(0-3.5)		6/25/2021		13:55		S		1		<input checked="" type="checkbox"/>				34			
SITG-210625-030X(0-3.5)		6/25/2021		13:58		S		1		<input checked="" type="checkbox"/>				35			
						S				<input type="checkbox"/>				36 ³⁶			
						S				<input type="checkbox"/>				37			
						S				<input type="checkbox"/>				38			
						S				<input type="checkbox"/>				39			
						S				<input type="checkbox"/>		40					
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)		Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*		Relinquished By: Notassja Sook				Date: 6/29/21		Time: 1200		Received By: <i>Milly Hill</i>		Date: 6/30/21		Time: 0900	
Matrix Codes A=Air S=Soil W=Water O=Other		Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact				Seal #s: Pace		Shipped Via: FedEx		Receipt Temp: 2.6°C		Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		Exp 12/15/21			



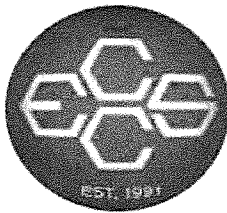
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CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212612				Mail Report To: Sharon Nordstrom									
Project Name: Barksdale				Preservation Codes				Company: AECOM									
Project Location: Barksdale, WI				Analyses Requested				Address: 4051 Ogletown Rd									
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 5 BDs <input type="checkbox"/> 3 BDs <input type="checkbox"/> 2 BDs <input type="checkbox"/> 24 hrs				A				E-mail Address: sharon.nordstrom@aecom.com									
If Rush, Report Due Date:								Invoice To:									
Sampled By (Print): Tasha Sook and Desmond Nielsen				Matrix				Company: AECOM									
Sample Description								Total # of Containers				Address:					
				Collection								Tracking #: 7741 1885 0609					
		Date		Time		Matrix		Total # of Containers		NNOCS		Comments		Lab ID	Lab Receipt Time		
SIGP-210625-PAH-01(0-2)		6/25/2021		09:05		S		1		<input checked="" type="checkbox"/>		Frozen after collection		36			
SIGP-210625-PAH-01(2-4)		6/25/2021		09:07		S		1		<input checked="" type="checkbox"/>				42	37		
SIGP-210625-PAH-02(0-2)		6/25/2021		09:32		S		1		<input checked="" type="checkbox"/>				43	38		
SIGP-210625-PAH-02(2-4)		6/25/2021		09:34		S		1		<input checked="" type="checkbox"/>				44	39		
SIGP-210625-PAH-03(0-2)		6/25/2021		10:03		S		1		<input checked="" type="checkbox"/>				45	40		
SIGP-210625-PAH-03(2-4)		6/25/2021		10:05		S		1		<input checked="" type="checkbox"/>				46	41		
SIGP-210625-PAH-04(0-2)		6/25/2021		10:27		S		1		<input checked="" type="checkbox"/>				47	42		
SIGP-210625-PAH-04(2-4)		6/25/2021		10:29		S		1		<input checked="" type="checkbox"/>				48	43		
SIGP-210625-PAH-05(0-2)		6/25/2021		11:02		S		1		<input checked="" type="checkbox"/>				49	44		
SIGP-210625-PAH-05(2-4)		6/25/2021		11:04		S		1		<input checked="" type="checkbox"/>				50	45		
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)		Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*		Relinquished By: <i>Natassja Sook</i>				Date: 6/28/12		Time: 1200		Received By: <i>[Signature]</i>		Date: 6/30/12		Time: 0900	
Matrix Codes A=Air S=Soil W=Water O=Other		Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact				Seal #s: <i>Pace</i>		Shipped Via: <i>Fed Ex</i>		Receipt Temp: <i>2.6°C</i>		Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					

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CHAIN OF CUSTODY

Project Number: 60660855				Lab Work Order #: A212612				Mail Report To: Sharon Nordstrom						
Project Name: Barksdale				Preservation Codes				Company: AECOM						
Project Location: Barksdale, WI				Analyses Requested: A				Address: 4051 Ogletown Rd Newark, DE 19713						
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 5 BDs <input type="checkbox"/> 3 BDs <input type="checkbox"/> 2 BDs <input type="checkbox"/> 24 hrs				Matrix Total # of Containers NNOCS				E-mail Address: sharon.nordstrom@aecom.com						
If Rush, Report Due Date:								Invoice To:						
Sampled By (Print): Tasha Sook and Desmond Nielsen								Company: AECOM						
Sample Description				Collection		Comments				Lab ID		Lab Receipt Time		
				Date	Time					Address: 774 1885 0609		Tracking #: 188501		
SIGP-210625-PAH-06(0-2)		6/25/2021	11:35	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frozen after collection		51	46
SIGP-210625-PAH-06(2-4)		6/25/2021	11:37	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			52	47
SIGP-210625-PAH-07(0-2)		6/25/2021	12:00	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			53	48
SIGP-210625-PAH-07(2-4)		6/25/2021	12:02	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			54	49
				S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Preservation Codes A=None B=HCL C=H ₂ SO ₄ D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate)		Rush TAT Multipliers 5 Business Days = 1.5x 3 Business Days = 2x 2 Business Days = 2.25x 24 Hours = 2.5x *must be pre-arranged*		Relinquished By: <i>Natasha Sook</i>		Date: 6/29/21	Time: 1200	Received By: <i>[Signature]</i>		Date: 6/30/21	Time: 0900			
Matrix Codes A=Air S=Soil W=Water O=Other				Relinquished By:		Date:	Time:	Received By:		Date:	Time:			
				Custody Seal: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Seal #s: <i>Pace</i>		Shipped Via: <i>Fed Ex</i>		Receipt Temp: <i>2.6°C</i>		Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		

ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-152852-1
Client Project/Site: BAR-Sediment Sampling 2021

For:

The Chemours Company FC, LLC
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom



Authorized for release by:
9/29/2021 10:28:19 AM

Michelle Johnston, Project Manager II
(303)736-0110
Michelle.Johnston@Eurofinset.com

LINKS

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

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

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



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QC Sample Results	13
QC Association Summary	19
Lab Chronicle	21
Certification Summary	25
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Definitions/Glossary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

LCMS

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Job ID: 280-152852-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: The Chemours Company FC, LLC
Project: BAR-Sediment Sampling 2021
Report Number: 280-152852-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The LOD and LOQ have been adjusted for all dilutions performed.

The LOD and LOQ for soil samples have been dry weight adjusted.

Sample Arrival and Receipt

The samples were received on 9/10/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

Semivolatiles

Samples SW2021-SED-B001 (280-152852-1), SW2021-SED-D001 (280-152852-2) and SW2021-SED-I001 (280-152852-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with SW846 Method 8270C. The samples were prepared on 09/15/2021 and analyzed on 09/27/2021.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to the nature of the sample matrix, samples SW2021-SED-B001 (280-152852-1) and SW2021-SED-D001 (280-152852-2) had to be analyzed at dilutions. The surrogate recoveries were calculated from diluted samples. The reporting limits have been adjusted relative to the dilutions required.

In analytical batch 280-551360, the internal standard (ISTD) response for the following sample was outside acceptance criteria: (CCV 280-551360/12). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported. This CCV injection is only for the surrogates. The internal standards are in control for the ICV and all extracted samples.

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

Explosives

Samples SW2021-SED-B001 (280-152852-1), SW2021-SED-D001 (280-152852-2) and SW2021-SED-I001 (280-152852-3) were analyzed for Explosives (dry weight) in accordance with SW846 8321A. The samples were leached on 09/14/2021, prepared on 09/15/2021 and analyzed on 09/20/2021.

The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: SW2021-SED-B001 (280-152852-1), SW2021-SED-D001 (280-152852-2), SW2021-SED-I001 (280-152852-3), (280-152852-B-3 MS) and (280-152852-B-3 MSD). This material was removed and not extracted.

Due to the low density of the sample, a 5g aliquot was provided for extraction of the following sample instead of the 10g aliquot requested by the extraction SOP: SW2021-SED-B001 (280-152852-1).

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

Total Organic Carbon

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Job ID: 280-152852-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

Samples SW2021-SED-B001 (280-152852-1), SW2021-SED-D001 (280-152852-2) and SW2021-SED-I001 (280-152852-3) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 09/16/2021.

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

Percent Moisture

Samples SW2021-SED-B001 (280-152852-1), SW2021-SED-D001 (280-152852-2) and SW2021-SED-I001 (280-152852-3) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 09/13/2021.

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



Detection Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Client Sample ID: SW2021-SED-B001

Lab Sample ID: 280-152852-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	37.1		4.0	0.90	g/Kg	1		9060A	Total/NA

Client Sample ID: SW2021-SED-D001

Lab Sample ID: 280-152852-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	15.0		4.0	0.90	g/Kg	1		9060A	Total/NA

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	11	J	120	6.1	ug/Kg	1	✳	8321A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8321A	Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)	SW846	TAL DEN
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN
D 2216-90	ASTM D 2216-90	ASTM	TAL DEN
3550C	Ultrasonic Extraction	SW846	TAL DEN
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
280-152852-1	SW2021-SED-B001	Solid	09/01/21 13:35	09/10/21 09:45
280-152852-2	SW2021-SED-D001	Solid	09/01/21 14:10	09/10/21 09:45
280-152852-3	SW2021-SED-I001	Solid	09/02/21 10:18	09/10/21 09:45

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Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Client Sample ID: SW2021-SED-B001

Lab Sample ID: 280-152852-1

Date Collected: 09/01/21 13:35

Matrix: Solid

Date Received: 09/10/21 09:45

Percent Solids: 52.0

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<210		1200	210	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,2-Dimethyl-3,5-Dinitrobenzene	<170		1200	170	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,2-Dimethyl-3,6-Dinitrobenzene	<180		1200	180	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,2-Dimethyl-4,5-Dinitrobenzene	<170		1200	170	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,3-Dimethyl-2,4-Dinitrobenzene	<120		1200	120	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,3-Dimethyl-2,5-Dinitrobenzene	<120		1200	120	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,4-Dimethyl-2,3-Dinitrobenzene	<200		1200	200	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,4-Dimethyl-2,5-Dinitrobenzene	<96		1200	96	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,4-Dimethyl-2,6-Dinitrobenzene	<130		1200	130	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,5-Dimethyl-2,3-Dinitrobenzene	<200		1200	200	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4
1,5-Dimethyl-2,4-Dinitrobenzene	<170		1200	170	ug/Kg	✱	09/15/21 09:59	09/27/21 19:46	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75	D	24 - 135	09/15/21 09:59	09/27/21 19:46	4
2-Fluorobiphenyl	81	D	33 - 135	09/15/21 09:59	09/27/21 19:46	4
2-Fluorophenol	72	D	39 - 135	09/15/21 09:59	09/27/21 19:46	4
Nitrobenzene-d5	69	D	32 - 135	09/15/21 09:59	09/27/21 19:46	4
Phenol-d5	82	D	39 - 135	09/15/21 09:59	09/27/21 19:46	4
Terphenyl-d14	94	D	30 - 135	09/15/21 09:59	09/27/21 19:46	4

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<48		380	48	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
1,3-Dinitrobenzene	<27		380	27	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
2,4,6-Trinitro-3-xylene	<16		380	16	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
2,4,6-Trinitrotoluene	<19		380	19	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
2,4-Dinitrotoluene	<31		380	31	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
2,6-Dinitrotoluene	<76		380	76	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
2-Amino-4,6-dinitrotoluene	<46		380	46	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
2-Nitrotoluene	<22		380	22	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
3,4-Dinitrotoluene	<38		380	38	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
3,5-Dinitrotoluene	<80		380	80	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
3-Nitrotoluene	<49		380	49	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
4-Amino-2,6-dinitrotoluene	<20		380	20	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
4-Nitrotoluene	<42		380	42	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
HMX	<57		380	57	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
Nitrobenzene	<41		380	41	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
Nitroglycerin	<40		380	40	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
PETN	<20		380	20	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
RDX	<17		380	17	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1
Tetryl	<29		380	29	ug/Kg	✱	09/15/21 17:32	09/20/21 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		68 - 140	09/15/21 17:32	09/20/21 17:50	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	37.1		4.0	0.90	g/Kg			09/16/21 15:46	1
Percent Moisture	48.0		0.1	0.1	%			09/13/21 17:38	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Client Sample ID: SW2021-SED-D001

Lab Sample ID: 280-152852-2

Date Collected: 09/01/21 14:10

Matrix: Solid

Date Received: 09/10/21 09:45

Percent Solids: 79.0

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<140		830	140	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,2-Dimethyl-3,5-Dinitrobenzene	<110		830	110	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,2-Dimethyl-3,6-Dinitrobenzene	<120		830	120	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,2-Dimethyl-4,5-Dinitrobenzene	<110		830	110	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,3-Dimethyl-2,4-Dinitrobenzene	<85		830	85	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,3-Dimethyl-2,5-Dinitrobenzene	<80		830	80	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,4-Dimethyl-2,3-Dinitrobenzene	<130		830	130	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,4-Dimethyl-2,5-Dinitrobenzene	<65		830	65	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,4-Dimethyl-2,6-Dinitrobenzene	<90		830	90	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,5-Dimethyl-2,3-Dinitrobenzene	<130		830	130	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4
1,5-Dimethyl-2,4-Dinitrobenzene	<110		830	110	ug/Kg	✱	09/15/21 09:59	09/27/21 20:14	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72	D	24 - 135	09/15/21 09:59	09/27/21 20:14	4
2-Fluorobiphenyl	81	D	33 - 135	09/15/21 09:59	09/27/21 20:14	4
2-Fluorophenol	79	D	39 - 135	09/15/21 09:59	09/27/21 20:14	4
Nitrobenzene-d5	75	D	32 - 135	09/15/21 09:59	09/27/21 20:14	4
Phenol-d5	80	D	39 - 135	09/15/21 09:59	09/27/21 20:14	4
Terphenyl-d14	94	D	30 - 135	09/15/21 09:59	09/27/21 20:14	4

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<16		120	16	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
1,3-Dinitrobenzene	<8.9		120	8.9	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
2,4,6-Trinitro-3-xylene	<5.1		120	5.1	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
2,4,6-Trinitrotoluene	<6.3		120	6.3	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
2,4-Dinitrotoluene	<10		120	10	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
2,6-Dinitrotoluene	<25		120	25	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
2-Amino-4,6-dinitrotoluene	<15		120	15	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
2-Nitrotoluene	<7.2		120	7.2	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
3,4-Dinitrotoluene	<12		120	12	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
3,5-Dinitrotoluene	<26		120	26	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
3-Nitrotoluene	<16		120	16	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
4-Amino-2,6-dinitrotoluene	<6.4		120	6.4	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
4-Nitrotoluene	<14		120	14	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
HMX	<19		120	19	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
Nitrobenzene	<13		120	13	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
Nitroglycerin	<13		120	13	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
PETN	<6.4		120	6.4	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
RDX	<5.4		120	5.4	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1
Tetryl	<9.5		120	9.5	ug/Kg	✱	09/15/21 17:32	09/20/21 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	74		68 - 140	09/15/21 17:32	09/20/21 18:02	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	15.0		4.0	0.90	g/Kg			09/16/21 15:57	1
Percent Moisture	21.0		0.1	0.1	%			09/13/21 17:38	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3

Date Collected: 09/02/21 10:18

Matrix: Solid

Date Received: 09/10/21 09:45

Percent Solids: 82.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<32		190	32	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,2-Dimethyl-3,5-Dinitrobenzene	<26		190	26	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,2-Dimethyl-3,6-Dinitrobenzene	<28		190	28	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,2-Dimethyl-4,5-Dinitrobenzene	<26		190	26	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,3-Dimethyl-2,4-Dinitrobenzene	<19		190	19	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,3-Dimethyl-2,5-Dinitrobenzene	<18		190	18	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,4-Dimethyl-2,3-Dinitrobenzene	<31		190	31	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,4-Dimethyl-2,5-Dinitrobenzene	<15		190	15	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,4-Dimethyl-2,6-Dinitrobenzene	<21		190	21	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,5-Dimethyl-2,3-Dinitrobenzene	<31		190	31	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1
1,5-Dimethyl-2,4-Dinitrobenzene	<26		190	26	ug/Kg	✱	09/15/21 09:59	09/27/21 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		24 - 135	09/15/21 09:59	09/27/21 20:42	1
2-Fluorobiphenyl	74		33 - 135	09/15/21 09:59	09/27/21 20:42	1
2-Fluorophenol	78		39 - 135	09/15/21 09:59	09/27/21 20:42	1
Nitrobenzene-d5	78		32 - 135	09/15/21 09:59	09/27/21 20:42	1
Phenol-d5	78		39 - 135	09/15/21 09:59	09/27/21 20:42	1
Terphenyl-d14	92		30 - 135	09/15/21 09:59	09/27/21 20:42	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<15		120	15	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
1,3-Dinitrobenzene	<8.6		120	8.6	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
2,4,6-Trinitro-3-xylene	<5.0		120	5.0	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
2,4,6-Trinitrotoluene	11	J	120	6.1	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
2,4-Dinitrotoluene	<9.9		120	9.9	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
2,6-Dinitrotoluene	<24		120	24	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
2-Amino-4,6-dinitrotoluene	<15		120	15	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
2-Nitrotoluene	<6.9		120	6.9	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
3,4-Dinitrotoluene	<12		120	12	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
3,5-Dinitrotoluene	<25		120	25	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
3-Nitrotoluene	<15		120	15	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
4-Amino-2,6-dinitrotoluene	<6.2		120	6.2	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
4-Nitrotoluene	<13		120	13	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
HMX	<18		120	18	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
Nitrobenzene	<13		120	13	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
Nitroglycerin	<13		120	13	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
PETN	<6.2		120	6.2	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
RDX	<5.2		120	5.2	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1
Tetryl	<9.2		120	9.2	ug/Kg	✱	09/15/21 17:32	09/20/21 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		68 - 140	09/15/21 17:32	09/20/21 18:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.90		4.0	0.90	g/Kg			09/16/21 16:07	1
Percent Moisture	17.9		0.1	0.1	%			09/13/21 17:38	1

Eurofins TestAmerica, Denver

Surrogate Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-135)	FBP (33-135)	2FP (39-135)	NBZ (32-135)	PHL (39-135)	TPHL (30-135)
280-152852-1	SW2021-SED-B001	75 D	81 D	72 D	69 D	82 D	94 D
280-152852-2	SW2021-SED-D001	72 D	81 D	79 D	75 D	80 D	94 D
280-152852-3	SW2021-SED-I001	75	74	78	78	78	92
280-152852-3 MS	SW2021-SED-I001	76	59	56	58	57	89
280-152852-3 MSD	SW2021-SED-I001	87	80	83	81	81	98
LCS 280-549749/2-A	Lab Control Sample	75	78	82	80	79	96
MB 280-549749/1-A	Method Blank	68	74	74	77	74	94

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ
		(68-140)
280-152852-1	SW2021-SED-B001	81
280-152852-2	SW2021-SED-D001	74
280-152852-3	SW2021-SED-I001	76
280-152852-3 MS	SW2021-SED-I001	87
280-152852-3 MSD	SW2021-SED-I001	87
LCS 280-549934/2-A	Lab Control Sample	84
LCSD 280-549934/3-A	Lab Control Sample Dup	94
MB 280-549934/1-A	Method Blank	81

Surrogate Legend

NBZ = Nitrobenzene-d5

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

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

Lab Sample ID: MB 280-549749/1-A
Matrix: Solid
Analysis Batch: 551360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549749

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dimethyl-3,4-Dinitrobenzene	<28		170	28	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,2-Dimethyl-3,5-Dinitrobenzene	<23		170	23	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,2-Dimethyl-3,6-Dinitrobenzene	<25		170	25	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,2-Dimethyl-4,5-Dinitrobenzene	<23		170	23	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,3-Dimethyl-2,4-Dinitrobenzene	<17		170	17	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,3-Dimethyl-2,5-Dinitrobenzene	<16		170	16	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,4-Dimethyl-2,3-Dinitrobenzene	<27		170	27	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,4-Dimethyl-2,5-Dinitrobenzene	<13		170	13	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,4-Dimethyl-2,6-Dinitrobenzene	<18		170	18	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,5-Dimethyl-2,3-Dinitrobenzene	<27		170	27	ug/Kg		09/15/21 09:59	09/27/21 18:50	1
1,5-Dimethyl-2,4-Dinitrobenzene	<23		170	23	ug/Kg		09/15/21 09:59	09/27/21 18:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	68		24 - 135	09/15/21 09:59	09/27/21 18:50	1
2-Fluorobiphenyl	74		33 - 135	09/15/21 09:59	09/27/21 18:50	1
2-Fluorophenol	74		39 - 135	09/15/21 09:59	09/27/21 18:50	1
Nitrobenzene-d5	77		32 - 135	09/15/21 09:59	09/27/21 18:50	1
Phenol-d5	74		39 - 135	09/15/21 09:59	09/27/21 18:50	1
Terphenyl-d14	94		30 - 135	09/15/21 09:59	09/27/21 18:50	1

Lab Sample ID: LCS 280-549749/2-A
Matrix: Solid
Analysis Batch: 551360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549749

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	1730	1610		ug/Kg		93	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	1660	1520		ug/Kg		92	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	1680	1510		ug/Kg		90	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	1720	1590		ug/Kg		92	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	1650	1500		ug/Kg		91	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	1720	1520		ug/Kg		89	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	1730	1500		ug/Kg		87	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	1700	1500		ug/Kg		88	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	1720	1500		ug/Kg		87	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	1720	1580		ug/Kg		92	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	1730	1580		ug/Kg		91	50 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	75		24 - 135
2-Fluorobiphenyl	78		33 - 135
2-Fluorophenol	82		39 - 135
Nitrobenzene-d5	80		32 - 135
Phenol-d5	79		39 - 135
Terphenyl-d14	96		30 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

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

Lab Sample ID: 280-152852-3 MS

Matrix: Solid

Analysis Batch: 551360

Client Sample ID: SW2021-SED-I001

Prep Type: Total/NA

Prep Batch: 549749

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	<32		2060	1750		ug/Kg	☼	85	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	<26		1980	1660		ug/Kg	☼	84	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	<28		2000	1610		ug/Kg	☼	80	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	<26		2040	1740		ug/Kg	☼	85	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	<19		1970	1620		ug/Kg	☼	82	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	<18		2040	1610		ug/Kg	☼	79	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	<31		2050	1670		ug/Kg	☼	81	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	<15		2020	1560		ug/Kg	☼	77	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	<21		2040	1600		ug/Kg	☼	78	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	<31		2040	1700		ug/Kg	☼	83	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	<26		2060	1720		ug/Kg	☼	83	50 - 135

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	76		24 - 135
2-Fluorobiphenyl	59		33 - 135
2-Fluorophenol	56		39 - 135
Nitrobenzene-d5	58		32 - 135
Phenol-d5	57		39 - 135
Terphenyl-d14	89		30 - 135

Lab Sample ID: 280-152852-3 MSD

Matrix: Solid

Analysis Batch: 551360

Client Sample ID: SW2021-SED-I001

Prep Type: Total/NA

Prep Batch: 549749

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dimethyl-3,4-Dinitrobenzene	<32		2060	1890		ug/Kg	☼	91	50 - 135	7	30
1,2-Dimethyl-3,5-Dinitrobenzene	<26		1980	1830		ug/Kg	☼	93	50 - 135	10	30
1,2-Dimethyl-3,6-Dinitrobenzene	<28		2000	1770		ug/Kg	☼	88	50 - 135	10	30
1,2-Dimethyl-4,5-Dinitrobenzene	<26		2040	1890		ug/Kg	☼	93	50 - 135	8	30
1,3-Dimethyl-2,4-Dinitrobenzene	<19		1970	1850		ug/Kg	☼	94	50 - 135	13	30
1,3-Dimethyl-2,5-Dinitrobenzene	<18		2040	1860		ug/Kg	☼	91	50 - 135	14	30
1,4-Dimethyl-2,3-Dinitrobenzene	<31		2050	1900		ug/Kg	☼	92	50 - 135	13	30
1,4-Dimethyl-2,5-Dinitrobenzene	<15		2020	1750		ug/Kg	☼	86	50 - 135	11	30
1,4-Dimethyl-2,6-Dinitrobenzene	<21		2040	1780		ug/Kg	☼	87	50 - 135	10	30
1,5-Dimethyl-2,3-Dinitrobenzene	<31		2040	1860		ug/Kg	☼	91	50 - 135	9	30
1,5-Dimethyl-2,4-Dinitrobenzene	<26		2060	1880		ug/Kg	☼	91	50 - 135	9	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	87		24 - 135
2-Fluorobiphenyl	80		33 - 135
2-Fluorophenol	83		39 - 135
Nitrobenzene-d5	81		32 - 135
Phenol-d5	81		39 - 135
Terphenyl-d14	98		30 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Lab Sample ID: MB 280-549934/1-A
Matrix: Solid
Analysis Batch: 550436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549934

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3,5-Trinitrobenzene	<13		100	13	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
1,3-Dinitrobenzene	<7.1		100	7.1	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
2,4,6-Trinitro-3-xylene	<4.1		100	4.1	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
2,4,6-Trinitrotoluene	<5.0		100	5.0	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
2,4-Dinitrotoluene	<8.2		100	8.2	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
2,6-Dinitrotoluene	<20		100	20	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
2-Amino-4,6-dinitrotoluene	<12		100	12	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
2-Nitrotoluene	<5.7		100	5.7	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
3,4-Dinitrotoluene	<10		100	10	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
3,5-Dinitrotoluene	<21		100	21	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
3-Nitrotoluene	<13		100	13	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
4-Amino-2,6-dinitrotoluene	<5.1		100	5.1	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
4-Nitrotoluene	<11		100	11	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
HMX	<15		100	15	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
Nitrobenzene	<11		100	11	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
Nitroglycerin	<11		100	11	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
PETN	<5.2		100	5.2	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
RDX	<4.3		100	4.3	ug/Kg		09/15/21 17:32	09/20/21 17:13	1
Tetryl	<7.6		100	7.6	ug/Kg		09/15/21 17:32	09/20/21 17:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	81		68 - 140	09/15/21 17:32	09/20/21 17:13	1

Lab Sample ID: LCS 280-549934/2-A
Matrix: Solid
Analysis Batch: 550436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549934

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,3,5-Trinitrobenzene	400	391		ug/Kg		98	45 - 142
1,3-Dinitrobenzene	400	389		ug/Kg		97	74 - 130
2,4,6-Trinitrotoluene	400	377		ug/Kg		94	60 - 135
2,4-Dinitrotoluene	400	399		ug/Kg		100	63 - 130
2,6-Dinitrotoluene	400	360		ug/Kg		90	65 - 133
2-Amino-4,6-dinitrotoluene	400	381		ug/Kg		95	51 - 148
2-Nitrotoluene	400	420		ug/Kg		105	59 - 150
3-Nitrotoluene	400	440		ug/Kg		110	56 - 154
4-Amino-2,6-dinitrotoluene	400	347		ug/Kg		87	60 - 141
4-Nitrotoluene	400	443		ug/Kg		111	72 - 145
HMX	400	401		ug/Kg		100	48 - 131
Nitrobenzene	400	365		ug/Kg		91	70 - 140
Nitroglycerin	400	391		ug/Kg		98	27 - 146
PETN	400	444		ug/Kg		111	31 - 171
RDX	400	356		ug/Kg		89	69 - 130
Tetryl	400	497		ug/Kg		124	10 - 170

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	84		68 - 140

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: LCSD 280-549934/3-A
Matrix: Solid
Analysis Batch: 550436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 549934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD
									Limit
1,3,5-Trinitrobenzene	400	389		ug/Kg		97	45 - 142	0	70
1,3-Dinitrobenzene	400	378		ug/Kg		95	74 - 130	3	25
2,4,6-Trinitrotoluene	400	372		ug/Kg		93	60 - 135	1	25
2,4-Dinitrotoluene	400	380		ug/Kg		95	63 - 130	5	25
2,6-Dinitrotoluene	400	363		ug/Kg		91	65 - 133	1	25
2-Amino-4,6-dinitrotoluene	400	392		ug/Kg		98	51 - 148	3	25
2-Nitrotoluene	400	428		ug/Kg		107	59 - 150	2	45
3-Nitrotoluene	400	442		ug/Kg		111	56 - 154	1	25
4-Amino-2,6-dinitrotoluene	400	388		ug/Kg		97	60 - 141	11	48
4-Nitrotoluene	400	455		ug/Kg		114	72 - 145	3	25
HMX	400	410		ug/Kg		103	48 - 131	2	25
Nitrobenzene	400	385		ug/Kg		96	70 - 140	5	25
Nitroglycerin	400	420		ug/Kg		105	27 - 146	7	92
PETN	400	439		ug/Kg		110	31 - 171	1	40
RDX	400	397		ug/Kg		99	69 - 130	11	25
Tetryl	400	592		ug/Kg		148	10 - 170	18	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	94		68 - 140

Lab Sample ID: 280-152852-3 MS
Matrix: Solid
Analysis Batch: 550436

Client Sample ID: SW2021-SED-I001
Prep Type: Total/NA
Prep Batch: 549934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	MS
									Limits
1,3,5-Trinitrobenzene	<15		468	437		ug/Kg	☼	93	45 - 142
1,3-Dinitrobenzene	<8.6		468	410		ug/Kg	☼	88	74 - 130
2,4,6-Trinitrotoluene	11	J	468	427		ug/Kg	☼	89	60 - 135
2,4-Dinitrotoluene	<9.9		468	464		ug/Kg	☼	99	63 - 130
2,6-Dinitrotoluene	<24		468	390		ug/Kg	☼	83	65 - 133
2-Amino-4,6-dinitrotoluene	<15		468	449		ug/Kg	☼	96	51 - 148
2-Nitrotoluene	<6.9		468	498		ug/Kg	☼	106	59 - 150
3-Nitrotoluene	<15		468	547		ug/Kg	☼	117	56 - 154
4-Amino-2,6-dinitrotoluene	<6.2		468	427		ug/Kg	☼	91	60 - 141
4-Nitrotoluene	<13		468	498		ug/Kg	☼	106	72 - 145
HMX	<18		468	440		ug/Kg	☼	94	48 - 131
Nitrobenzene	<13		468	446		ug/Kg	☼	95	70 - 140
Nitroglycerin	<13		468	463		ug/Kg	☼	99	27 - 146
PETN	<6.2		468	525		ug/Kg	☼	112	31 - 171
RDX	<5.2		468	469		ug/Kg	☼	100	69 - 130
Tetryl	<9.2		468	620		ug/Kg	☼	133	10 - 170

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	87		68 - 140

QC Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: 280-152852-3 MSD

Matrix: Solid

Analysis Batch: 550436

Client Sample ID: SW2021-SED-I001

Prep Type: Total/NA

Prep Batch: 549934

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,3,5-Trinitrobenzene	<15		464	439		ug/Kg	☼	95	45 - 142	1	70
1,3-Dinitrobenzene	<8.6		464	451		ug/Kg	☼	97	74 - 130	9	25
2,4,6-Trinitrotoluene	11	J	464	431		ug/Kg	☼	90	60 - 135	1	25
2,4-Dinitrotoluene	<9.9		464	471		ug/Kg	☼	102	63 - 130	2	25
2,6-Dinitrotoluene	<24		464	408		ug/Kg	☼	88	65 - 133	5	25
2-Amino-4,6-dinitrotoluene	<15		464	415		ug/Kg	☼	90	51 - 148	8	25
2-Nitrotoluene	<6.9		464	495		ug/Kg	☼	107	59 - 150	1	45
3-Nitrotoluene	<15		464	547		ug/Kg	☼	118	56 - 154	0	25
4-Amino-2,6-dinitrotoluene	<6.2		464	452		ug/Kg	☼	97	60 - 141	6	48
4-Nitrotoluene	<13		464	513		ug/Kg	☼	111	72 - 145	3	25
HMX	<18		464	483		ug/Kg	☼	104	48 - 131	9	25
Nitrobenzene	<13		464	444		ug/Kg	☼	96	70 - 140	0	25
Nitroglycerin	<13		464	470		ug/Kg	☼	101	27 - 146	2	92
PETN	<6.2		464	526		ug/Kg	☼	113	31 - 171	0	40
RDX	<5.2		464	434		ug/Kg	☼	94	69 - 130	8	25
Tetryl	<9.2		464	592		ug/Kg	☼	128	10 - 170	5	50
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	87		68 - 140								

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-550118/4

Matrix: Solid

Analysis Batch: 550118

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Total Organic Carbon	<0.90		4.0	0.90	g/Kg			09/16/21 15:36		1

Lab Sample ID: LCS 280-550118/3

Matrix: Solid

Analysis Batch: 550118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Total Organic Carbon	4.16	4.13		g/Kg		99	46 - 130	

Lab Sample ID: 280-152852-3 MS

Matrix: Solid

Analysis Batch: 550118

Client Sample ID: SW2021-SED-I001

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Total Organic Carbon	<0.90		11.6	11.34		g/Kg		98	46 - 130	

Lab Sample ID: 280-152852-3 MSD

Matrix: Solid

Analysis Batch: 550118

Client Sample ID: SW2021-SED-I001

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Total Organic Carbon	<0.90		11.7	11.73		g/Kg		100	46 - 130	3	20

Eurofins TestAmerica, Denver

QC Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Method: D 2216-90 - ASTM D 2216-90

Lab Sample ID: 280-152852-3 DU

Matrix: Solid

Analysis Batch: 549698

Client Sample ID: SW2021-SED-I001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.9		18.0		%		0.2	20

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QC Association Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

GC/MS Semi VOA

Prep Batch: 549749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-152852-1	SW2021-SED-B001	Total/NA	Solid	3550C	
280-152852-2	SW2021-SED-D001	Total/NA	Solid	3550C	
280-152852-3	SW2021-SED-I001	Total/NA	Solid	3550C	
MB 280-549749/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 280-549749/2-A	Lab Control Sample	Total/NA	Solid	3550C	
280-152852-3 MS	SW2021-SED-I001	Total/NA	Solid	3550C	
280-152852-3 MSD	SW2021-SED-I001	Total/NA	Solid	3550C	

Analysis Batch: 551360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-152852-1	SW2021-SED-B001	Total/NA	Solid	8270C	549749
280-152852-2	SW2021-SED-D001	Total/NA	Solid	8270C	549749
280-152852-3	SW2021-SED-I001	Total/NA	Solid	8270C	549749
MB 280-549749/1-A	Method Blank	Total/NA	Solid	8270C	549749
LCS 280-549749/2-A	Lab Control Sample	Total/NA	Solid	8270C	549749
280-152852-3 MS	SW2021-SED-I001	Total/NA	Solid	8270C	549749
280-152852-3 MSD	SW2021-SED-I001	Total/NA	Solid	8270C	549749

LCMS

ISM Prep Batch: 549747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-152852-1	SW2021-SED-B001	Total/NA	Solid	Increment, prep	
280-152852-2	SW2021-SED-D001	Total/NA	Solid	Increment, prep	
280-152852-3	SW2021-SED-I001	Total/NA	Solid	Increment, prep	
280-152852-3 MS	SW2021-SED-I001	Total/NA	Solid	Increment, prep	
280-152852-3 MSD	SW2021-SED-I001	Total/NA	Solid	Increment, prep	

Prep Batch: 549934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-152852-1	SW2021-SED-B001	Total/NA	Solid	8330B	549747
280-152852-2	SW2021-SED-D001	Total/NA	Solid	8330B	549747
280-152852-3	SW2021-SED-I001	Total/NA	Solid	8330B	549747
MB 280-549934/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-549934/2-A	Lab Control Sample	Total/NA	Solid	8330B	
LCSD 280-549934/3-A	Lab Control Sample Dup	Total/NA	Solid	8330B	
280-152852-3 MS	SW2021-SED-I001	Total/NA	Solid	8330B	549747
280-152852-3 MSD	SW2021-SED-I001	Total/NA	Solid	8330B	549747

Analysis Batch: 550436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-152852-1	SW2021-SED-B001	Total/NA	Solid	8321A	549934
280-152852-2	SW2021-SED-D001	Total/NA	Solid	8321A	549934
280-152852-3	SW2021-SED-I001	Total/NA	Solid	8321A	549934
MB 280-549934/1-A	Method Blank	Total/NA	Solid	8321A	549934
LCS 280-549934/2-A	Lab Control Sample	Total/NA	Solid	8321A	549934
LCSD 280-549934/3-A	Lab Control Sample Dup	Total/NA	Solid	8321A	549934
280-152852-3 MS	SW2021-SED-I001	Total/NA	Solid	8321A	549934
280-152852-3 MSD	SW2021-SED-I001	Total/NA	Solid	8321A	549934

QC Association Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

General Chemistry

Analysis Batch: 549698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-152852-1	SW2021-SED-B001	Total/NA	Solid	D 2216-90	
280-152852-2	SW2021-SED-D001	Total/NA	Solid	D 2216-90	
280-152852-3	SW2021-SED-I001	Total/NA	Solid	D 2216-90	
280-152852-3 DU	SW2021-SED-I001	Total/NA	Solid	D 2216-90	

Analysis Batch: 550118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-152852-1	SW2021-SED-B001	Total/NA	Solid	9060A	
280-152852-2	SW2021-SED-D001	Total/NA	Solid	9060A	
280-152852-3	SW2021-SED-I001	Total/NA	Solid	9060A	
MB 280-550118/4	Method Blank	Total/NA	Solid	9060A	
LCS 280-550118/3	Lab Control Sample	Total/NA	Solid	9060A	
280-152852-3 MS	SW2021-SED-I001	Total/NA	Solid	9060A	
280-152852-3 MSD	SW2021-SED-I001	Total/NA	Solid	9060A	

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Client Sample ID: SW2021-SED-B001

Lab Sample ID: 280-152852-1

Date Collected: 09/01/21 13:35

Matrix: Solid

Date Received: 09/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	97.8 mg	97.8 mg	550118	09/16/21 15:46	RAF	TAL DEN
Total/NA	Analysis	D 2216-90		1			549698	09/13/21 17:38	SVC	TAL DEN

Client Sample ID: SW2021-SED-B001

Lab Sample ID: 280-152852-1

Date Collected: 09/01/21 13:35

Matrix: Solid

Date Received: 09/10/21 09:45

Percent Solids: 52.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			31.4 g	1 mL	549749	09/15/21 09:59	TGH	TAL DEN
Total/NA	Analysis	8270C		4			551360	09/27/21 19:46	SP	TAL DEN
Total/NA	ISM Prep	Increment, prep					549747	09/14/21 09:54	EKB	TAL DEN
Total/NA	Prep	8330B			5.03 g	40 mL	549934	09/15/21 17:32	TEH	TAL DEN
Total/NA	Analysis	8321A		1			550436	09/20/21 17:50	AGCM	TAL DEN

Client Sample ID: SW2021-SED-D001

Lab Sample ID: 280-152852-2

Date Collected: 09/01/21 14:10

Matrix: Solid

Date Received: 09/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	93.5 mg	93.5 mg	550118	09/16/21 15:57	RAF	TAL DEN
Total/NA	Analysis	D 2216-90		1			549698	09/13/21 17:38	SVC	TAL DEN

Client Sample ID: SW2021-SED-D001

Lab Sample ID: 280-152852-2

Date Collected: 09/01/21 14:10

Matrix: Solid

Date Received: 09/10/21 09:45

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.5 g	1 mL	549749	09/15/21 09:59	TGH	TAL DEN
Total/NA	Analysis	8270C		4			551360	09/27/21 20:14	SP	TAL DEN
Total/NA	ISM Prep	Increment, prep					549747	09/14/21 09:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.14 g	40 mL	549934	09/15/21 17:32	TEH	TAL DEN
Total/NA	Analysis	8321A		1			550436	09/20/21 18:02	AGCM	TAL DEN

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3

Date Collected: 09/02/21 10:18

Matrix: Solid

Date Received: 09/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	101.9 mg	101.9 mg	550118	09/16/21 16:07	RAF	TAL DEN
Total/NA	Analysis	D 2216-90		1			549698	09/13/21 17:38	SVC	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3

Date Collected: 09/02/21 10:18

Matrix: Solid

Date Received: 09/10/21 09:45

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			32.1 g	1 mL	549749	09/15/21 09:59	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 20:42	SP	TAL DEN
Total/NA	ISM Prep	Increment, prep					549747	09/14/21 09:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.07 g	40 mL	549934	09/15/21 17:32	TEH	TAL DEN
Total/NA	Analysis	8321A		1			550436	09/20/21 18:14	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-549749/1-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30 g	1 mL	549749	09/15/21 09:59	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 18:50	SP	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-549934/1-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330B			10 g	40 mL	549934	09/15/21 17:32	TEH	TAL DEN
Total/NA	Analysis	8321A		1			550436	09/20/21 17:13	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-550118/4

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	101.5 mg	101.5 mg	550118	09/16/21 15:36	RAF	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-549749/2-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30 g	1 mL	549749	09/15/21 09:59	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 19:18	SP	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-549934/2-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330B			10 g	40 mL	549934	09/15/21 17:32	TEH	TAL DEN
Total/NA	Analysis	8321A		1			550436	09/20/21 17:26	AGCM	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-550118/3

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	92.0 mg	92.0 mg	550118	09/16/21 15:30	RAF	TAL DEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 280-549934/3-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330B			10 g	40 mL	549934	09/15/21 17:32	TEH	TAL DEN
Total/NA	Analysis	8321A		1			550436	09/20/21 17:38	AGCM	TAL DEN

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3 MS

Date Collected: 09/02/21 10:18

Matrix: Solid

Date Received: 09/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	101.9 mg	101.9 mg	550118	09/16/21 16:16	RAF	TAL DEN

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3 MS

Date Collected: 09/02/21 10:18

Matrix: Solid

Date Received: 09/10/21 09:45

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.7 g	1 mL	549749	09/15/21 09:59	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 21:11	SP	TAL DEN
Total/NA	ISM Prep	Increment, prep					549747	09/14/21 09:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.42 g	40 mL	549934	09/15/21 17:32	TEH	TAL DEN
Total/NA	Analysis	8321A		1			550436	09/20/21 18:26	AGCM	TAL DEN

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3 MSD

Date Collected: 09/02/21 10:18

Matrix: Solid

Date Received: 09/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	100.4 mg	100.4 mg	550118	09/16/21 16:24	RAF	TAL DEN

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3 MSD

Date Collected: 09/02/21 10:18

Matrix: Solid

Date Received: 09/10/21 09:45

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.7 g	1 mL	549749	09/15/21 09:59	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 21:39	SP	TAL DEN
Total/NA	ISM Prep	Increment, prep					549747	09/14/21 09:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.51 g	40 mL	549934	09/15/21 17:32	TEH	TAL DEN
Total/NA	Analysis	8321A		1			550436	09/20/21 18:38	AGCM	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Client Sample ID: SW2021-SED-I001

Lab Sample ID: 280-152852-3 DU

Date Collected: 09/02/21 10:18

Matrix: Solid

Date Received: 09/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			549698	09/13/21 17:38	SVC	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Accreditation/Certification Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-152852-1

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999615430	08-31-22

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Chain of Custody Record

Client Information Sharon Nordstrom The Chemours Company FC, LLC Address: c/o AECOM Sabre Building, Suite 300, 4051 Ogletown Road, Newark, DE, 19713 Phone: 302-781-5936 (Tel) Email: sharon.nordstrom@aecom.com Project Name: BAR-Sediment Sampling 2021 Site: Barksdale, WI		Lab PM: Johnston, Michelle A E-Mail: Michelle.Johnston@Eurofinsset.com PWSID: 715 533 0393 Due Date Requested: TAT Requested (days): 15 business day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: LBIO-67048 / 77201000-WH06-508001 WO #: 28003388 Project #: 28003388 SSOW#:		Career Taping No(s): 504140012430 COC No: 280-108908-31676.2 Page: Page 1 of 1 State of Origin: WI Job #:	
Sample Identification SW2021-SED-8001 SW2021-SED-D001 SW2021-SED-I001		Sample Date: 9/12/21 Sample Time: 1335 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=osmotic, D=dredge): S		Preservation Code: N Special Instructions/Note:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Analysis Requested 9080A Total Organic Carbon (TOC) N N N N 9021A Nitro Organics (DuPont List + TNX + DNT Isomers) N N N N 8270C DNx Analytes N N N N Mixture		Total Number of Containers: Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other: M Hexane N None O Ac2SO2 P Na2O4S Q Na2SO3 R Na2SO4 S H2SO4 T TSP Dodecalhydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
Empty Kit Relinquished by: Nordstrom N.A. Sec Relinquished by: Nordstrom N.A. Sec Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:		Method of Shipment:	
Date/Time: 9/12/21 12:00 Date/Time: 9/12/21 12:00 Date/Time:		Date/Time: 9/12/21 945 Date/Time: 9/12/21 945 Date/Time:		Company: AECOM Company: AECOM Company:	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 0-2 18U CFP-0		Company:	



Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 280-152852-1

Login Number: 152852

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Lee, Jerry

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-153239-1
Client Project/Site: BAR-Sediment Sampling 2021

For:

The Chemours Company FC, LLC
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom



Authorized for release by:
10/7/2021 7:52:14 AM

Michelle Johnston, Project Manager II
(303)736-0110
Michelle.Johnston@Eurofinset.com

LINKS

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

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

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



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Definitions/Glossary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

LCMS

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Job ID: 280-153239-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: The Chemours Company FC, LLC
Project: BAR-Sediment Sampling 2021
Report Number: 280-153239-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The LOD and LOQ have been adjusted for all dilutions performed.

The LOD and LOQ for soil samples have been dry weight adjusted.

Sample Arrival and Receipt

The samples were received on 9/22/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

Semivolatiles

Samples SW2021-SED-F001 (280-153239-1) and SW2021-SED-K001 (280-153239-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with SW846 Method 8270C. The samples were prepared on 09/23/2021 and analyzed on 09/27/2021.

2-Fluorophenol, Nitrobenzene-d5 and Phenol-d5 failed the surrogate recovery criteria low for LCS 280-550889/2-A. Refer to the QC report for details. The surrogates are in control for the associated Method Blank, MS/MSD and all field samples; therefore, the data are reported. The associated samples are SW2021-SED-F001 (280-153239-1), SW2021-SED-K001 (280-153239-2) and (LCS 280-550889/2-A).

In analytical batch 280-551360, the internal standard (ISTD) response for the following sample was outside acceptance criteria: (CCV 280-551360/12). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported. This CCV injection is only for the surrogates. The internal standards are in control for the ICV and all extracted samples.

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

Explosives

Samples SW2021-SED-F001 (280-153239-1) and SW2021-SED-K001 (280-153239-2) were analyzed for Explosives (dry weight) in accordance with SW846 8321A. The samples were leached on 09/23/2021, prepared on 09/24/2021 and analyzed on 09/27/2021.

The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: SW2021-SED-F001 (280-153239-1), SW2021-SED-K001 (280-153239-2), (280-153239-B-1 MS) and (280-153239-B-1 MSD). This material was removed and not extracted.

The 2,5DNT, 2,3DNT, 3,4DNT, 3,5DNT and 2,4,6-Trinitro-3-xylene spiking solution was omitted during the extraction process for the LCS, MS and MSD associated with prep batch 280-550969 and 280-551174 due to the unavailability of 2,4,6-Trinitro-3-xylene; therefore, percent recoveries are unavailable.

The MS/MSD associated with prep batch 280-551174 was performed on sample SW2021-SED-F001 (280-153239-1). The MS/MSD exhibited spike compound recoveries outside the QC control limits for 2,4-Dinitrotoluene. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action was deemed unnecessary.

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Job ID: 280-153239-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Total Organic Carbon

Samples SW2021-SED-F001 (280-153239-1) and SW2021-SED-K001 (280-153239-2) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 09/23/2021.

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

Percent Moisture

Samples SW2021-SED-F001 (280-153239-1) and SW2021-SED-K001 (280-153239-2) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 09/24/2021.

Percent Moisture exceeded the RPD limit for the duplicate of sample SW2021-SED-F001DU (280-153239-1). Refer to the QC report for details. Sample matrix interference is suspected.

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



Detection Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitro-3-xylene	NC		96	3.9	ug/Kg	1	✳	8321A	Total/NA
2,4,6-Trinitrotoluene	78	J	96	4.8	ug/Kg	1	✳	8321A	Total/NA
2,4-Dinitrotoluene	590	F1	96	7.9	ug/Kg	1	✳	8321A	Total/NA
2,6-Dinitrotoluene	52	J	96	19	ug/Kg	1	✳	8321A	Total/NA
2-Amino-4,6-dinitrotoluene	20	J	96	12	ug/Kg	1	✳	8321A	Total/NA
2-Nitrotoluene	12	J	96	5.5	ug/Kg	1	✳	8321A	Total/NA
3,4-Dinitrotoluene	NC		96	9.6	ug/Kg	1	✳	8321A	Total/NA
4-Amino-2,6-dinitrotoluene	16	J	96	4.9	ug/Kg	1	✳	8321A	Total/NA
Total Organic Carbon	1.2	J	4.0	0.90	g/Kg	1		9060A	Total/NA

Client Sample ID: SW2021-SED-K001

Lab Sample ID: 280-153239-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8321A	Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)	SW846	TAL DEN
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN
D 2216-90	ASTM D 2216-90	ASTM	TAL DEN
3550C	Ultrasonic Extraction	SW846	TAL DEN
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-153239-1	SW2021-SED-F001	Solid	09/20/21 14:50	09/22/21 09:30
280-153239-2	SW2021-SED-K001	Solid	09/20/21 15:20	09/22/21 09:30

1

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Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1

Date Collected: 09/20/21 14:50

Matrix: Solid

Date Received: 09/22/21 09:30

Percent Solids: 99.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<27		160	27	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,2-Dimethyl-3,5-Dinitrobenzene	<22		160	22	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,2-Dimethyl-3,6-Dinitrobenzene	<24		160	24	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,2-Dimethyl-4,5-Dinitrobenzene	<22		160	22	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,3-Dimethyl-2,4-Dinitrobenzene	<16		160	16	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,3-Dimethyl-2,5-Dinitrobenzene	<15		160	15	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,4-Dimethyl-2,3-Dinitrobenzene	<26		160	26	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,4-Dimethyl-2,5-Dinitrobenzene	<12		160	12	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,4-Dimethyl-2,6-Dinitrobenzene	<17		160	17	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,5-Dimethyl-2,3-Dinitrobenzene	<26		160	26	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1
1,5-Dimethyl-2,4-Dinitrobenzene	<22		160	22	ug/Kg	✱	09/23/21 11:20	09/27/21 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		24 - 135	09/23/21 11:20	09/27/21 23:03	1
2-Fluorobiphenyl	58		33 - 135	09/23/21 11:20	09/27/21 23:03	1
2-Fluorophenol	55		39 - 135	09/23/21 11:20	09/27/21 23:03	1
Nitrobenzene-d5	55		32 - 135	09/23/21 11:20	09/27/21 23:03	1
Phenol-d5	57		39 - 135	09/23/21 11:20	09/27/21 23:03	1
Terphenyl-d14	87		30 - 135	09/23/21 11:20	09/27/21 23:03	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<12		96	12	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
1,3-Dinitrobenzene	<6.8		96	6.8	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
2,4,6-Trinitro-3-xylene	NC		96	3.9	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
2,4,6-Trinitrotoluene	78 J		96	4.8	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
2,4-Dinitrotoluene	590 F1		96	7.9	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
2,6-Dinitrotoluene	52 J		96	19	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
2-Amino-4,6-dinitrotoluene	20 J		96	12	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
2-Nitrotoluene	12 J		96	5.5	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
3,4-Dinitrotoluene	NC		96	9.6	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
3,5-Dinitrotoluene	<20		96	20	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
3-Nitrotoluene	<12		96	12	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
4-Amino-2,6-dinitrotoluene	16 J		96	4.9	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
4-Nitrotoluene	<11		96	11	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
HMX	<14		96	14	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
Nitrobenzene	<10		96	10	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
Nitroglycerin	<10		96	10	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
PETN	<4.9		96	4.9	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
RDX	<4.2		96	4.2	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1
Tetryl	<7.3		96	7.3	ug/Kg	✱	09/24/21 17:56	09/27/21 08:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	91		68 - 140	09/24/21 17:56	09/27/21 08:36	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.2 J		4.0	0.90	g/Kg			09/23/21 14:49	1
Percent Moisture	0.2		0.1	0.1	%			09/24/21 14:32	1

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Client Sample ID: SW2021-SED-K001

Lab Sample ID: 280-153239-2

Date Collected: 09/20/21 15:20

Matrix: Solid

Date Received: 09/22/21 09:30

Percent Solids: 99.7

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<26		160	26	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,2-Dimethyl-3,5-Dinitrobenzene	<22		160	22	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,2-Dimethyl-3,6-Dinitrobenzene	<23		160	23	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,2-Dimethyl-4,5-Dinitrobenzene	<22		160	22	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,3-Dimethyl-2,4-Dinitrobenzene	<16		160	16	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,3-Dimethyl-2,5-Dinitrobenzene	<15		160	15	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,4-Dimethyl-2,3-Dinitrobenzene	<25		160	25	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,4-Dimethyl-2,5-Dinitrobenzene	<12		160	12	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,4-Dimethyl-2,6-Dinitrobenzene	<17		160	17	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,5-Dimethyl-2,3-Dinitrobenzene	<25		160	25	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1
1,5-Dimethyl-2,4-Dinitrobenzene	<22		160	22	ug/Kg	✱	09/23/21 11:20	09/27/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		24 - 135	09/23/21 11:20	09/27/21 23:31	1
2-Fluorobiphenyl	63		33 - 135	09/23/21 11:20	09/27/21 23:31	1
2-Fluorophenol	59		39 - 135	09/23/21 11:20	09/27/21 23:31	1
Nitrobenzene-d5	59		32 - 135	09/23/21 11:20	09/27/21 23:31	1
Phenol-d5	64		39 - 135	09/23/21 11:20	09/27/21 23:31	1
Terphenyl-d14	89		30 - 135	09/23/21 11:20	09/27/21 23:31	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<12		99	12	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
1,3-Dinitrobenzene	<7.0		99	7.0	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
2,4,6-Trinitro-3-xylene	<4.0		99	4.0	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
2,4,6-Trinitrotoluene	<5.0		99	5.0	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
2,4-Dinitrotoluene	<8.1		99	8.1	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
2,6-Dinitrotoluene	<20		99	20	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
2-Amino-4,6-dinitrotoluene	<12		99	12	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
2-Nitrotoluene	<5.7		99	5.7	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
3,4-Dinitrotoluene	<9.9		99	9.9	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
3,5-Dinitrotoluene	<21		99	21	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
3-Nitrotoluene	<13		99	13	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
4-Amino-2,6-dinitrotoluene	<5.0		99	5.0	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
4-Nitrotoluene	<11		99	11	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
HMX	<15		99	15	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
Nitrobenzene	<11		99	11	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
Nitroglycerin	<10		99	10	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
PETN	<5.1		99	5.1	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
RDX	<4.3		99	4.3	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1
Tetryl	<7.5		99	7.5	ug/Kg	✱	09/24/21 17:56	09/27/21 09:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	84		68 - 140	09/24/21 17:56	09/27/21 09:13	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.90		4.0	0.90	g/Kg			09/23/21 15:17	1
Percent Moisture	0.3		0.1	0.1	%			09/24/21 14:32	1

Eurofins TestAmerica, Denver

Surrogate Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-135)	FBP (33-135)	2FP (39-135)	NBZ (32-135)	PHL (39-135)	TPHL (30-135)
280-153239-1	SW2021-SED-F001	76	58	55	55	57	87
280-153239-2	SW2021-SED-K001	78	63	59	59	64	89
280-153239-2 MS	SW2021-SED-K001	85	71	67	69	70	95
280-153239-2 MSD	SW2021-SED-K001	89	72	77	76	75	97
LCS 280-550889/2-A	Lab Control Sample	79	37	3 X	6 X	9 X	95
MB 280-550889/1-A	Method Blank	51	44	46	46	46	73

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		NBZ (68-140)
280-153239-1	SW2021-SED-F001	91
280-153239-1 MS	SW2021-SED-F001	97
280-153239-1 MSD	SW2021-SED-F001	102
280-153239-2	SW2021-SED-K001	84
LCS 280-551174/2-A	Lab Control Sample	92
MB 280-551174/1-A	Method Blank	93

Surrogate Legend

NBZ = Nitrobenzene-d5

QC Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

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

Lab Sample ID: MB 280-550889/1-A
Matrix: Solid
Analysis Batch: 551360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550889

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dimethyl-3,4-Dinitrobenzene	<28		170	28	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,2-Dimethyl-3,5-Dinitrobenzene	<23		170	23	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,2-Dimethyl-3,6-Dinitrobenzene	<25		170	25	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,2-Dimethyl-4,5-Dinitrobenzene	<23		170	23	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,3-Dimethyl-2,4-Dinitrobenzene	<17		170	17	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,3-Dimethyl-2,5-Dinitrobenzene	<16		170	16	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,4-Dimethyl-2,3-Dinitrobenzene	<27		170	27	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,4-Dimethyl-2,5-Dinitrobenzene	<13		170	13	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,4-Dimethyl-2,6-Dinitrobenzene	<18		170	18	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,5-Dimethyl-2,3-Dinitrobenzene	<27		170	27	ug/Kg		09/23/21 11:20	09/27/21 22:07	1
1,5-Dimethyl-2,4-Dinitrobenzene	<23		170	23	ug/Kg		09/23/21 11:20	09/27/21 22:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	51		24 - 135	09/23/21 11:20	09/27/21 22:07	1
2-Fluorobiphenyl	44		33 - 135	09/23/21 11:20	09/27/21 22:07	1
2-Fluorophenol	46		39 - 135	09/23/21 11:20	09/27/21 22:07	1
Nitrobenzene-d5	46		32 - 135	09/23/21 11:20	09/27/21 22:07	1
Phenol-d5	46		39 - 135	09/23/21 11:20	09/27/21 22:07	1
Terphenyl-d14	73		30 - 135	09/23/21 11:20	09/27/21 22:07	1

Lab Sample ID: LCS 280-550889/2-A
Matrix: Solid
Analysis Batch: 551360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550889

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	1730	1620		ug/Kg		93	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	1660	1560		ug/Kg		94	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	1680	1460		ug/Kg		87	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	1720	1610		ug/Kg		94	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	1650	1460		ug/Kg		88	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	1720	1480		ug/Kg		86	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	1730	1530		ug/Kg		88	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	1700	1470		ug/Kg		87	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	1720	1520		ug/Kg		89	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	1720	1560		ug/Kg		91	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	1730	1580		ug/Kg		91	50 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	79		24 - 135
2-Fluorobiphenyl	37		33 - 135
2-Fluorophenol	3	X	39 - 135
Nitrobenzene-d5	6	X	32 - 135
Phenol-d5	9	X	39 - 135
Terphenyl-d14	95		30 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

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

Lab Sample ID: 280-153239-2 MS

Matrix: Solid

Analysis Batch: 551360

Client Sample ID: SW2021-SED-K001

Prep Type: Total/NA

Prep Batch: 550889

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	<26		1720	1650		ug/Kg	☼	96	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	<22		1650	1580		ug/Kg	☼	96	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	<23		1670	1470		ug/Kg	☼	88	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	<22		1700	1640		ug/Kg	☼	96	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	<16		1640	1490		ug/Kg	☼	91	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	<15		1700	1520		ug/Kg	☼	89	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	<25		1710	1480		ug/Kg	☼	87	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	<12		1690	1460		ug/Kg	☼	86	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	<17		1700	1500		ug/Kg	☼	88	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	<25		1700	1580		ug/Kg	☼	93	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	<22		1720	1590		ug/Kg	☼	93	50 - 135

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	85		24 - 135
2-Fluorobiphenyl	71		33 - 135
2-Fluorophenol	67		39 - 135
Nitrobenzene-d5	69		32 - 135
Phenol-d5	70		39 - 135
Terphenyl-d14	95		30 - 135

Lab Sample ID: 280-153239-2 MSD

Matrix: Solid

Analysis Batch: 551360

Client Sample ID: SW2021-SED-K001

Prep Type: Total/NA

Prep Batch: 550889

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dimethyl-3,4-Dinitrobenzene	<26		1600	1530		ug/Kg	☼	96	50 - 135	8	30
1,2-Dimethyl-3,5-Dinitrobenzene	<22		1530	1490		ug/Kg	☼	97	50 - 135	6	30
1,2-Dimethyl-3,6-Dinitrobenzene	<23		1550	1390		ug/Kg	☼	90	50 - 135	5	30
1,2-Dimethyl-4,5-Dinitrobenzene	<22		1580	1560		ug/Kg	☼	99	50 - 135	5	30
1,3-Dimethyl-2,4-Dinitrobenzene	<16		1520	1470		ug/Kg	☼	97	50 - 135	1	30
1,3-Dimethyl-2,5-Dinitrobenzene	<15		1580	1450		ug/Kg	☼	91	50 - 135	5	30
1,4-Dimethyl-2,3-Dinitrobenzene	<25		1590	1460		ug/Kg	☼	92	50 - 135	2	30
1,4-Dimethyl-2,5-Dinitrobenzene	<12		1570	1410		ug/Kg	☼	90	50 - 135	3	30
1,4-Dimethyl-2,6-Dinitrobenzene	<17		1580	1470		ug/Kg	☼	93	50 - 135	2	30
1,5-Dimethyl-2,3-Dinitrobenzene	<25		1580	1480		ug/Kg	☼	94	50 - 135	6	30
1,5-Dimethyl-2,4-Dinitrobenzene	<22		1600	1520		ug/Kg	☼	95	50 - 135	5	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	89		24 - 135
2-Fluorobiphenyl	72		33 - 135
2-Fluorophenol	77		39 - 135
Nitrobenzene-d5	76		32 - 135
Phenol-d5	75		39 - 135
Terphenyl-d14	97		30 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Lab Sample ID: MB 280-551174/1-A
Matrix: Solid
Analysis Batch: 551314

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551174

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3,5-Trinitrobenzene	<13		100	13	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
1,3-Dinitrobenzene	<7.1		100	7.1	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
2,4,6-Trinitro-3-xylene	<4.1		100	4.1	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
2,4,6-Trinitrotoluene	<5.0		100	5.0	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
2,4-Dinitrotoluene	<8.2		100	8.2	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
2,6-Dinitrotoluene	<20		100	20	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
2-Amino-4,6-dinitrotoluene	<12		100	12	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
2-Nitrotoluene	<5.7		100	5.7	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
3,4-Dinitrotoluene	<10		100	10	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
3,5-Dinitrotoluene	<21		100	21	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
3-Nitrotoluene	<13		100	13	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
4-Amino-2,6-dinitrotoluene	<5.1		100	5.1	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
4-Nitrotoluene	<11		100	11	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
HMX	<15		100	15	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
Nitrobenzene	<11		100	11	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
Nitroglycerin	<11		100	11	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
PETN	<5.2		100	5.2	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
RDX	<4.3		100	4.3	ug/Kg		09/24/21 17:56	09/27/21 08:12	1
Tetryl	<7.6		100	7.6	ug/Kg		09/24/21 17:56	09/27/21 08:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	93		68 - 140	09/24/21 17:56	09/27/21 08:12	1

Lab Sample ID: LCS 280-551174/2-A
Matrix: Solid
Analysis Batch: 551314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551174

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,3,5-Trinitrobenzene	400	427		ug/Kg		107	45 - 142
1,3-Dinitrobenzene	400	371		ug/Kg		93	74 - 130
2,4,6-Trinitrotoluene	400	371		ug/Kg		93	60 - 135
2,4-Dinitrotoluene	400	377		ug/Kg		94	63 - 130
2,6-Dinitrotoluene	400	394		ug/Kg		99	65 - 133
2-Amino-4,6-dinitrotoluene	400	393		ug/Kg		98	51 - 148
2-Nitrotoluene	400	431		ug/Kg		108	59 - 150
3-Nitrotoluene	400	384		ug/Kg		96	56 - 154
4-Amino-2,6-dinitrotoluene	400	402		ug/Kg		100	60 - 141
4-Nitrotoluene	400	409		ug/Kg		102	72 - 145
HMX	400	391		ug/Kg		98	48 - 131
Nitrobenzene	400	367		ug/Kg		92	70 - 140
Nitroglycerin	400	439		ug/Kg		110	27 - 146
PETN	400	453		ug/Kg		113	31 - 171
RDX	400	346		ug/Kg		87	69 - 130
Tetryl	400	564		ug/Kg		141	10 - 170

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	92		68 - 140

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-550998/4
Matrix: Solid
Analysis Batch: 550998

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.90		4.0	0.90	g/Kg			09/23/21 14:40	1

Lab Sample ID: LCS 280-550998/3
Matrix: Solid
Analysis Batch: 550998

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	4.16	3.65	J	g/Kg		88	46 - 130

Lab Sample ID: 280-153239-1 MS
Matrix: Solid
Analysis Batch: 550998

Client Sample ID: SW2021-SED-F001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.2	J	12.1	12.90		g/Kg		97	46 - 130

Lab Sample ID: 280-153239-1 MSD
Matrix: Solid
Analysis Batch: 550998

Client Sample ID: SW2021-SED-F001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.2	J	12.2	13.85		g/Kg		103	46 - 130	7	20

Method: D 2216-90 - ASTM D 2216-90

Lab Sample ID: 280-153239-1 DU
Matrix: Solid
Analysis Batch: 551146

Client Sample ID: SW2021-SED-F001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.2		0.2	F5	%		36	20

QC Association Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

GC/MS Semi VOA

Prep Batch: 550889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153239-1	SW2021-SED-F001	Total/NA	Solid	3550C	
280-153239-2	SW2021-SED-K001	Total/NA	Solid	3550C	
MB 280-550889/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 280-550889/2-A	Lab Control Sample	Total/NA	Solid	3550C	
280-153239-2 MS	SW2021-SED-K001	Total/NA	Solid	3550C	
280-153239-2 MSD	SW2021-SED-K001	Total/NA	Solid	3550C	

Analysis Batch: 551360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153239-1	SW2021-SED-F001	Total/NA	Solid	8270C	550889
280-153239-2	SW2021-SED-K001	Total/NA	Solid	8270C	550889
MB 280-550889/1-A	Method Blank	Total/NA	Solid	8270C	550889
LCS 280-550889/2-A	Lab Control Sample	Total/NA	Solid	8270C	550889
280-153239-2 MS	SW2021-SED-K001	Total/NA	Solid	8270C	550889
280-153239-2 MSD	SW2021-SED-K001	Total/NA	Solid	8270C	550889

LCMS

ISM Prep Batch: 550969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153239-1	SW2021-SED-F001	Total/NA	Solid	Increment, prep	
280-153239-2	SW2021-SED-K001	Total/NA	Solid	Increment, prep	
280-153239-1 MS	SW2021-SED-F001	Total/NA	Solid	Increment, prep	
280-153239-1 MSD	SW2021-SED-F001	Total/NA	Solid	Increment, prep	

Prep Batch: 551174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153239-1	SW2021-SED-F001	Total/NA	Solid	8330B	550969
280-153239-2	SW2021-SED-K001	Total/NA	Solid	8330B	550969
MB 280-551174/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-551174/2-A	Lab Control Sample	Total/NA	Solid	8330B	
280-153239-1 MS	SW2021-SED-F001	Total/NA	Solid	8330B	550969
280-153239-1 MSD	SW2021-SED-F001	Total/NA	Solid	8330B	550969

Analysis Batch: 551314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153239-1	SW2021-SED-F001	Total/NA	Solid	8321A	551174
280-153239-2	SW2021-SED-K001	Total/NA	Solid	8321A	551174
MB 280-551174/1-A	Method Blank	Total/NA	Solid	8321A	551174
LCS 280-551174/2-A	Lab Control Sample	Total/NA	Solid	8321A	551174
280-153239-1 MS	SW2021-SED-F001	Total/NA	Solid	8321A	551174
280-153239-1 MSD	SW2021-SED-F001	Total/NA	Solid	8321A	551174

General Chemistry

Analysis Batch: 550998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153239-1	SW2021-SED-F001	Total/NA	Solid	9060A	
280-153239-2	SW2021-SED-K001	Total/NA	Solid	9060A	
MB 280-550998/4	Method Blank	Total/NA	Solid	9060A	
LCS 280-550998/3	Lab Control Sample	Total/NA	Solid	9060A	
280-153239-1 MS	SW2021-SED-F001	Total/NA	Solid	9060A	

Eurofins TestAmerica, Denver

QC Association Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

General Chemistry (Continued)

Analysis Batch: 550998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153239-1 MSD	SW2021-SED-F001	Total/NA	Solid	9060A	

Analysis Batch: 551146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153239-1	SW2021-SED-F001	Total/NA	Solid	D 2216-90	
280-153239-2	SW2021-SED-K001	Total/NA	Solid	D 2216-90	
280-153239-1 DU	SW2021-SED-F001	Total/NA	Solid	D 2216-90	

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1

Date Collected: 09/20/21 14:50

Matrix: Solid

Date Received: 09/22/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	95.0 mg	95.0 mg	550998	09/23/21 14:49	RAF	TAL DEN
Total/NA	Analysis	D 2216-90		1			551146	09/24/21 14:32	ZPM	TAL DEN

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1

Date Collected: 09/20/21 14:50

Matrix: Solid

Date Received: 09/22/21 09:30

Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			31.5 g	1 mL	550889	09/23/21 11:20	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 23:03	SP	TAL DEN
Total/NA	ISM Prep	Increment, prep					550969	09/23/21 14:17	EKB	TAL DEN
Total/NA	Prep	8330B			10.43 g	40 mL	551174	09/24/21 17:56	TEH	TAL DEN
Total/NA	Analysis	8321A		1			551314	09/27/21 08:36	AGCM	TAL DEN

Client Sample ID: SW2021-SED-K001

Lab Sample ID: 280-153239-2

Date Collected: 09/20/21 15:20

Matrix: Solid

Date Received: 09/22/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	102.3 mg	102.3 mg	550998	09/23/21 15:17	RAF	TAL DEN
Total/NA	Analysis	D 2216-90		1			551146	09/24/21 14:32	ZPM	TAL DEN

Client Sample ID: SW2021-SED-K001

Lab Sample ID: 280-153239-2

Date Collected: 09/20/21 15:20

Matrix: Solid

Date Received: 09/22/21 09:30

Percent Solids: 99.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			32.1 g	1 mL	550889	09/23/21 11:20	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 23:31	SP	TAL DEN
Total/NA	ISM Prep	Increment, prep					550969	09/23/21 14:17	EKB	TAL DEN
Total/NA	Prep	8330B			10.18 g	40 mL	551174	09/24/21 17:56	TEH	TAL DEN
Total/NA	Analysis	8321A		1			551314	09/27/21 09:13	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-550889/1-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30 g	1 mL	550889	09/23/21 11:20	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 22:07	SP	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Client Sample ID: Method Blank

Lab Sample ID: MB 280-550998/4

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	101.7 mg	101.7 mg	550998	09/23/21 14:40	RAF	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-551174/1-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330B			10 g	40 mL	551174	09/24/21 17:56	TEH	TAL DEN
Total/NA	Analysis	8321A		1			551314	09/27/21 08:12	AGCM	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-550889/2-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30 g	1 mL	550889	09/23/21 11:20	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 22:35	SP	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-550998/3

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	98.8 mg	98.8 mg	550998	09/23/21 14:33	RAF	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-551174/2-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330B			10 g	40 mL	551174	09/24/21 17:56	TEH	TAL DEN
Total/NA	Analysis	8321A		1			551314	09/27/21 08:24	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1 MS

Date Collected: 09/20/21 14:50

Matrix: Solid

Date Received: 09/22/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	97.6 mg	97.6 mg	550998	09/23/21 14:57	RAF	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1 MS

Date Collected: 09/20/21 14:50

Matrix: Solid

Date Received: 09/22/21 09:30

Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					550969	09/23/21 14:17	EKB	TAL DEN
Total/NA	Prep	8330B			10.4 g	40 mL	551174	09/24/21 17:56	TEH	TAL DEN
Total/NA	Analysis	8321A		1			551314	09/27/21 08:48	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1 MSD

Date Collected: 09/20/21 14:50

Matrix: Solid

Date Received: 09/22/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	96.7 mg	96.7 mg	550998	09/23/21 15:09	RAF	TAL DEN

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1 MSD

Date Collected: 09/20/21 14:50

Matrix: Solid

Date Received: 09/22/21 09:30

Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					550969	09/23/21 14:17	EKB	TAL DEN
Total/NA	Prep	8330B			10.76 g	40 mL	551174	09/24/21 17:56	TEH	TAL DEN
Total/NA	Analysis	8321A		1			551314	09/27/21 09:01	AGCM	TAL DEN

Client Sample ID: SW2021-SED-K001

Lab Sample ID: 280-153239-2 MS

Date Collected: 09/20/21 15:20

Matrix: Solid

Date Received: 09/22/21 09:30

Percent Solids: 99.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.3 g	1 mL	550889	09/23/21 11:20	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/27/21 23:59	SP	TAL DEN

Client Sample ID: SW2021-SED-K001

Lab Sample ID: 280-153239-2 MSD

Date Collected: 09/20/21 15:20

Matrix: Solid

Date Received: 09/22/21 09:30

Percent Solids: 99.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			32.6 g	1 mL	550889	09/23/21 11:20	TGH	TAL DEN
Total/NA	Analysis	8270C		1			551360	09/28/21 00:27	SP	TAL DEN

Client Sample ID: SW2021-SED-F001

Lab Sample ID: 280-153239-1 DU

Date Collected: 09/20/21 14:50

Matrix: Solid

Date Received: 09/22/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			551146	09/24/21 14:32	ZPM	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-153239-1

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999615430	08-31-22

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Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 280-153239-1

Login Number: 153239

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Kazenga, Oliver M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-153602-1

Client Project/Site: BAR-Surface Water Run-off 2021

For:

The Chemours Company FC, LLC
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom



Authorized for release by:
10/21/2021 8:04:48 AM

Michelle Johnston, Project Manager II
(303)736-0110

Michelle.Johnston@Eurofinset.com

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

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

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



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Definitions/Glossary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.
X	Surrogate recovery exceeds control limits

LCMS

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Job ID: 280-153602-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: The Chemours Company FC, LLC
Project: BAR-Surface Water Run-off 2021
Report Number: 280-153602-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The LOD and LOQ for soil samples have been dry weight adjusted.

Sample Arrival and Receipt

The samples were received on 10/1/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.9° C, 4.5° C and 4.6° C.

Receipt Exceptions

The container label for the following sample) did not match the information listed on the Chain-of-Custody (COC): SW2021-SW-I001-D (280-153602-3). The container labels list no sample time, while the COC lists 10:30. The collection time was logged per the COC.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SW2021-SW-K001 (280-153602-1). The container labels list a sample ID of SW2020-SW-K001, while the COC lists SW2021-SW-K001. The sample ID was logged per the COC.

No other anomalies were observed during sample receipt.

Semivolatiles

Samples SW2021-SW-K001 (280-153602-1), SW2021-SW-I001 (280-153602-2) and SW2021-SW-I001-D (280-153602-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/05/2021 and analyzed on 10/15/2021.

2-Fluorobiphenyl failed the surrogate recovery criteria low for LCSD 280-552309/3-A. The LCSD recoveries are in control and the associated samples surrogates are in control; therefore, data was reported and qualified.

The CCV and ICAL standard are outside of laboratory 1 year SOP expiration: SW2021-SW-K001 (280-153602-1), SW2021-SW-I001 (280-153602-2), SW2021-SW-I001 (280-153602-2[MSJ]), SW2021-SW-I001 (280-153602-2[MSD]) and SW2021-SW-I001-D (280-153602-3).

The continuing calibration verification (CCV) associated with batch 280-553612 recovered above the upper control limit for 1,4-Dimethyl-2,6-Dinitrobenzene and 1,4-Dimethyl-2,5-Dinitrobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Explosives

Samples SW2021-SW-K001 (280-153602-1), SW2021-SW-I001 (280-153602-2) and SW2021-SW-I001-D (280-153602-3) were analyzed for explosives in accordance with EPA SW-846 Method 8321A. The samples were prepared on 10/05/2021 and analyzed on 10/11/2021.

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Job ID: 280-153602-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high constituent concentrations, samples SW2021-SW-I001 (280-153602-2) and SW2021-SW-I001-D (280-153602-3) had to be analyzed at dilutions. The surrogate recoveries were calculated from diluted samples. The reporting limits have been adjusted relative to the dilutions required.

The 3,4-Dinitrotoluene, 2,3-Dinitrotoluene, 3,5-Dinitrotoluene, 2,4,6-Trinitro-3-xylene and 2,5-Dinitrotoluene spiking solution was omitted during the extraction process for the LCS, LCSD, MS and MSD associated with prep batch 280-552323 due to the unavailability of 2,4,6-Trinitro-3-xylene; therefore, percent recoveries are unavailable.

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



Detection Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Client Sample ID: SW2021-SW-K001

Lab Sample ID: 280-153602-1

No Detections.

Client Sample ID: SW2021-SW-I001

Lab Sample ID: 280-153602-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,3-Dinitrotoluene	NC		0.096	0.014	ug/L	1		8321A	Total/NA
2,4-Dinitrotoluene	0.023	J	0.096	0.018	ug/L	1		8321A	Total/NA
2,6-Dinitrotoluene	0.057	J	0.096	0.021	ug/L	1		8321A	Total/NA
2-Amino-4,6-dinitrotoluene	0.051	J	0.096	0.020	ug/L	1		8321A	Total/NA
3,4-Dinitrotoluene	NC		0.096	0.019	ug/L	1		8321A	Total/NA
4-Amino-2,6-dinitrotoluene	0.12		0.096	0.018	ug/L	1		8321A	Total/NA
2-Nitrotoluene - DL	1.8		0.96	0.21	ug/L	10		8321A	Total/NA

Client Sample ID: SW2021-SW-I001-D

Lab Sample ID: 280-153602-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,3-Dinitrotoluene	NC		0.096	0.014	ug/L	1		8321A	Total/NA
2,4-Dinitrotoluene	0.026	J	0.096	0.018	ug/L	1		8321A	Total/NA
2,6-Dinitrotoluene	0.061	J	0.096	0.021	ug/L	1		8321A	Total/NA
2-Amino-4,6-dinitrotoluene	0.051	J	0.096	0.020	ug/L	1		8321A	Total/NA
3,4-Dinitrotoluene	NC		0.096	0.019	ug/L	1		8321A	Total/NA
4-Amino-2,6-dinitrotoluene	0.12		0.096	0.018	ug/L	1		8321A	Total/NA
2-Nitrotoluene - DL	1.8		0.96	0.21	ug/L	10		8321A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8321A	Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL DEN
3535	Solid-Phase Extraction (SPE)	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100



Sample Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
280-153602-1	SW2021-SW-K001	Water	09/29/21 11:00	10/01/21 10:40
280-153602-2	SW2021-SW-I001	Water	09/29/21 10:30	10/01/21 10:40
280-153602-3	SW2021-SW-I001-D	Water	09/29/21 10:30	10/01/21 10:40

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Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Client Sample ID: SW2021-SW-K001

Lab Sample ID: 280-153602-1

Date Collected: 09/29/21 11:00

Matrix: Water

Date Received: 10/01/21 10:40

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		4.8	0.23	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		4.8	0.32	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		4.8	0.39	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		4.8	0.37	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		4.8	0.43	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		4.8	0.40	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		4.8	0.36	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73	^c	9500	0.73	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21	^c	4.8	0.21	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		4.8	0.25	ug/L		10/05/21 11:11	10/15/21 01:41	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		4.8	0.26	ug/L		10/05/21 11:11	10/15/21 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		48 - 135	10/05/21 11:11	10/15/21 01:41	1
2-Fluorobiphenyl	71		48 - 135	10/05/21 11:11	10/15/21 01:41	1
2-Fluorophenol	79		41 - 135	10/05/21 11:11	10/15/21 01:41	1
Nitrobenzene-d5	79		42 - 135	10/05/21 11:11	10/15/21 01:41	1
Phenol-d5	79		46 - 135	10/05/21 11:11	10/15/21 01:41	1
Terphenyl-d14	37		20 - 135	10/05/21 11:11	10/15/21 01:41	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<0.016		0.096	0.016	ug/L		10/05/21 15:28	10/11/21 22:27	1
1,3-Dinitrobenzene	<0.013		0.096	0.013	ug/L		10/05/21 15:28	10/11/21 22:27	1
2,3-Dinitrotoluene	<0.014		0.096	0.014	ug/L		10/05/21 15:28	10/11/21 22:27	1
2,4,6-Trinitro-3-xylene	<0.011		0.096	0.011	ug/L		10/05/21 15:28	10/11/21 22:27	1
2,4,6-Trinitrotoluene	<0.021		0.096	0.021	ug/L		10/05/21 15:28	10/11/21 22:27	1
2,4-Dinitrotoluene	<0.018		0.096	0.018	ug/L		10/05/21 15:28	10/11/21 22:27	1
2,5-Dinitrotoluene	<0.013		0.096	0.013	ug/L		10/05/21 15:28	10/11/21 22:27	1
2,6-Dinitrotoluene	<0.021		0.096	0.021	ug/L		10/05/21 15:28	10/11/21 22:27	1
2-Amino-4,6-dinitrotoluene	<0.020		0.096	0.020	ug/L		10/05/21 15:28	10/11/21 22:27	1
2-Nitrotoluene	<0.021		0.096	0.021	ug/L		10/05/21 15:28	10/11/21 22:27	1
3,4-Dinitrotoluene	<0.019		0.096	0.019	ug/L		10/05/21 15:28	10/11/21 22:27	1
3,5-Dinitrotoluene	<0.033		0.096	0.033	ug/L		10/05/21 15:28	10/11/21 22:27	1
3-Nitrotoluene	<0.024		0.096	0.024	ug/L		10/05/21 15:28	10/11/21 22:27	1
4-Amino-2,6-dinitrotoluene	<0.018		0.096	0.018	ug/L		10/05/21 15:28	10/11/21 22:27	1
4-Nitrotoluene	<0.025		0.096	0.025	ug/L		10/05/21 15:28	10/11/21 22:27	1
HMX	<0.018		0.096	0.018	ug/L		10/05/21 15:28	10/11/21 22:27	1
Nitrobenzene	<0.032		0.096	0.032	ug/L		10/05/21 15:28	10/11/21 22:27	1
Nitroglycerin	<0.016		0.13	0.016	ug/L		10/05/21 15:28	10/11/21 22:27	1
PETN	<0.017		0.096	0.017	ug/L		10/05/21 15:28	10/11/21 22:27	1
RDX	<0.020		0.096	0.020	ug/L		10/05/21 15:28	10/11/21 22:27	1
Tetryl	<0.020		0.096	0.020	ug/L		10/05/21 15:28	10/11/21 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	51		48 - 130	10/05/21 15:28	10/11/21 22:27	1

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Client Sample ID: SW2021-SW-I001

Lab Sample ID: 280-153602-2

Date Collected: 09/29/21 10:30

Matrix: Water

Date Received: 10/01/21 10:40

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		4.8	0.23	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		4.8	0.32	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		4.8	0.39	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		4.8	0.37	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		4.8	0.43	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		4.8	0.40	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		4.8	0.36	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73	^c	9600	0.73	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21	^c	4.8	0.21	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		4.8	0.25	ug/L		10/05/21 11:11	10/15/21 02:07	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		4.8	0.26	ug/L		10/05/21 11:11	10/15/21 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		48 - 135	10/05/21 11:11	10/15/21 02:07	1
2-Fluorobiphenyl	57		48 - 135	10/05/21 11:11	10/15/21 02:07	1
2-Fluorophenol	54		41 - 135	10/05/21 11:11	10/15/21 02:07	1
Nitrobenzene-d5	56		42 - 135	10/05/21 11:11	10/15/21 02:07	1
Phenol-d5	61		46 - 135	10/05/21 11:11	10/15/21 02:07	1
Terphenyl-d14	33		20 - 135	10/05/21 11:11	10/15/21 02:07	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<0.016		0.096	0.016	ug/L		10/05/21 15:28	10/11/21 22:40	1
1,3-Dinitrobenzene	<0.013		0.096	0.013	ug/L		10/05/21 15:28	10/11/21 22:40	1
2,3-Dinitrotoluene	NC		0.096	0.014	ug/L		10/05/21 15:28	10/11/21 22:40	1
2,4,6-Trinitro-3-xylene	<0.012		0.096	0.012	ug/L		10/05/21 15:28	10/11/21 22:40	1
2,4,6-Trinitrotoluene	<0.021		0.096	0.021	ug/L		10/05/21 15:28	10/11/21 22:40	1
2,4-Dinitrotoluene	0.023	J	0.096	0.018	ug/L		10/05/21 15:28	10/11/21 22:40	1
2,5-Dinitrotoluene	<0.013		0.096	0.013	ug/L		10/05/21 15:28	10/11/21 22:40	1
2,6-Dinitrotoluene	0.057	J	0.096	0.021	ug/L		10/05/21 15:28	10/11/21 22:40	1
2-Amino-4,6-dinitrotoluene	0.051	J	0.096	0.020	ug/L		10/05/21 15:28	10/11/21 22:40	1
3,4-Dinitrotoluene	NC		0.096	0.019	ug/L		10/05/21 15:28	10/11/21 22:40	1
3,5-Dinitrotoluene	<0.033		0.096	0.033	ug/L		10/05/21 15:28	10/11/21 22:40	1
3-Nitrotoluene	<0.024		0.096	0.024	ug/L		10/05/21 15:28	10/11/21 22:40	1
4-Amino-2,6-dinitrotoluene	0.12		0.096	0.018	ug/L		10/05/21 15:28	10/11/21 22:40	1
4-Nitrotoluene	<0.025		0.096	0.025	ug/L		10/05/21 15:28	10/11/21 22:40	1
HMX	<0.018		0.096	0.018	ug/L		10/05/21 15:28	10/11/21 22:40	1
Nitrobenzene	<0.032		0.096	0.032	ug/L		10/05/21 15:28	10/11/21 22:40	1
Nitroglycerin	<0.016		0.13	0.016	ug/L		10/05/21 15:28	10/11/21 22:40	1
PETN	<0.017		0.096	0.017	ug/L		10/05/21 15:28	10/11/21 22:40	1
RDX	<0.020		0.096	0.020	ug/L		10/05/21 15:28	10/11/21 22:40	1
Tetryl	<0.020		0.096	0.020	ug/L		10/05/21 15:28	10/11/21 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	53		48 - 130	10/05/21 15:28	10/11/21 22:40	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrotoluene	1.8		0.96	0.21	ug/L		10/05/21 15:28	10/11/21 21:27	10

Eurofins TestAmerica, Denver

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Client Sample ID: SW2021-SW-I001

Lab Sample ID: 280-153602-2

Date Collected: 09/29/21 10:30

Matrix: Water

Date Received: 10/01/21 10:40

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Nitrobenzene-d5	88	D	48 - 130	10/05/21 15:28	10/11/21 21:27	10

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Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Client Sample ID: SW2021-SW-I001-D

Lab Sample ID: 280-153602-3

Date Collected: 09/29/21 10:30

Matrix: Water

Date Received: 10/01/21 10:40

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		4.8	0.23	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		4.8	0.32	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		4.8	0.39	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		4.8	0.37	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		4.8	0.43	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		4.8	0.40	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		4.8	0.36	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73	^c	9600	0.73	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21	^c	4.8	0.21	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		4.8	0.25	ug/L		10/05/21 11:11	10/15/21 03:25	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		4.8	0.26	ug/L		10/05/21 11:11	10/15/21 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		48 - 135	10/05/21 11:11	10/15/21 03:25	1
2-Fluorobiphenyl	66		48 - 135	10/05/21 11:11	10/15/21 03:25	1
2-Fluorophenol	65		41 - 135	10/05/21 11:11	10/15/21 03:25	1
Nitrobenzene-d5	68		42 - 135	10/05/21 11:11	10/15/21 03:25	1
Phenol-d5	66		46 - 135	10/05/21 11:11	10/15/21 03:25	1
Terphenyl-d14	36		20 - 135	10/05/21 11:11	10/15/21 03:25	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<0.016		0.096	0.016	ug/L		10/05/21 15:28	10/11/21 23:16	1
1,3-Dinitrobenzene	<0.013		0.096	0.013	ug/L		10/05/21 15:28	10/11/21 23:16	1
2,3-Dinitrotoluene	NC		0.096	0.014	ug/L		10/05/21 15:28	10/11/21 23:16	1
2,4,6-Trinitro-3-xylene	<0.012		0.096	0.012	ug/L		10/05/21 15:28	10/11/21 23:16	1
2,4,6-Trinitrotoluene	<0.021		0.096	0.021	ug/L		10/05/21 15:28	10/11/21 23:16	1
2,4-Dinitrotoluene	0.026	J	0.096	0.018	ug/L		10/05/21 15:28	10/11/21 23:16	1
2,5-Dinitrotoluene	<0.013		0.096	0.013	ug/L		10/05/21 15:28	10/11/21 23:16	1
2,6-Dinitrotoluene	0.061	J	0.096	0.021	ug/L		10/05/21 15:28	10/11/21 23:16	1
2-Amino-4,6-dinitrotoluene	0.051	J	0.096	0.020	ug/L		10/05/21 15:28	10/11/21 23:16	1
3,4-Dinitrotoluene	NC		0.096	0.019	ug/L		10/05/21 15:28	10/11/21 23:16	1
3,5-Dinitrotoluene	<0.033		0.096	0.033	ug/L		10/05/21 15:28	10/11/21 23:16	1
3-Nitrotoluene	<0.024		0.096	0.024	ug/L		10/05/21 15:28	10/11/21 23:16	1
4-Amino-2,6-dinitrotoluene	0.12		0.096	0.018	ug/L		10/05/21 15:28	10/11/21 23:16	1
4-Nitrotoluene	<0.025		0.096	0.025	ug/L		10/05/21 15:28	10/11/21 23:16	1
HMX	<0.018		0.096	0.018	ug/L		10/05/21 15:28	10/11/21 23:16	1
Nitrobenzene	<0.032		0.096	0.032	ug/L		10/05/21 15:28	10/11/21 23:16	1
Nitroglycerin	<0.016		0.13	0.016	ug/L		10/05/21 15:28	10/11/21 23:16	1
PETN	<0.017		0.096	0.017	ug/L		10/05/21 15:28	10/11/21 23:16	1
RDX	<0.020		0.096	0.020	ug/L		10/05/21 15:28	10/11/21 23:16	1
Tetryl	<0.020		0.096	0.020	ug/L		10/05/21 15:28	10/11/21 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	49		48 - 130	10/05/21 15:28	10/11/21 23:16	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrotoluene	1.8		0.96	0.21	ug/L		10/05/21 15:28	10/11/21 22:03	10

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Client Sample ID: SW2021-SW-I001-D

Lab Sample ID: 280-153602-3

Date Collected: 09/29/21 10:30

Matrix: Water

Date Received: 10/01/21 10:40

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Nitrobenzene-d5	59	D	48 - 130	10/05/21 15:28	10/11/21 22:03	10

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Surrogate Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (48-135)	FBP (48-135)	2FP (41-135)	NBZ (42-135)	PHL (46-135)	TPHL (20-135)
280-153602-1	SW2021-SW-K001	87	71	79	79	79	37
280-153602-2	SW2021-SW-I001	72	57	54	56	61	33
280-153602-2 MS	SW2021-SW-I001	81	57	58	59	65	48
280-153602-2 MSD	SW2021-SW-I001	79	52	63	58	62	50
280-153602-3	SW2021-SW-I001-D	87	66	65	68	66	36
LCS 280-552309/2-A	Lab Control Sample	84	66	57	57	58	90
LCS 280-552309/3-A	Lab Control Sample Dup	81	45 X	53	50	54	80
MB 280-552309/1-A	Method Blank	72	51	58	60	60	77

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		NBZ (48-130)
280-153602-1	SW2021-SW-K001	51
280-153602-2 - DL	SW2021-SW-I001	88 D
280-153602-2	SW2021-SW-I001	53
280-153602-2 MS - DL	SW2021-SW-I001	67 D
280-153602-2 MS	SW2021-SW-I001	56
280-153602-2 MSD - DL	SW2021-SW-I001	69 D
280-153602-2 MSD	SW2021-SW-I001	54
280-153602-3 - DL	SW2021-SW-I001-D	59 D
280-153602-3	SW2021-SW-I001-D	49
LCS 280-552323/2-A	Lab Control Sample	58
MB 280-552323/1-A	Method Blank	65

Surrogate Legend

NBZ = Nitrobenzene-d5

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

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

Lab Sample ID: MB 280-552309/1-A
Matrix: Water
Analysis Batch: 553612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552309

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dimethyl-3,4-Dinitrobenzene	<0.24		5.0	0.24	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.33		5.0	0.33	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.41		5.0	0.41	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.39		5.0	0.39	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.45		5.0	0.45	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.42		5.0	0.42	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.38		5.0	0.38	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.76		10000	0.76	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.22		5.0	0.22	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.26		5.0	0.26	ug/L		10/05/21 11:11	10/15/21 00:23	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.27		5.0	0.27	ug/L		10/05/21 11:11	10/15/21 00:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	72		48 - 135	10/05/21 11:11	10/15/21 00:23	1
2-Fluorobiphenyl	51		48 - 135	10/05/21 11:11	10/15/21 00:23	1
2-Fluorophenol	58		41 - 135	10/05/21 11:11	10/15/21 00:23	1
Nitrobenzene-d5	60		42 - 135	10/05/21 11:11	10/15/21 00:23	1
Phenol-d5	60		46 - 135	10/05/21 11:11	10/15/21 00:23	1
Terphenyl-d14	77		20 - 135	10/05/21 11:11	10/15/21 00:23	1

Lab Sample ID: LCS 280-552309/2-A
Matrix: Water
Analysis Batch: 553612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552309

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	52.0	55.7		ug/L		107	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	49.8	53.9		ug/L		108	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	50.5	51.6		ug/L		102	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	51.5	55.4		ug/L		108	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	49.5	52.4		ug/L		106	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	51.5	52.7		ug/L		102	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	51.8	53.4		ug/L		103	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	51.0	55.9	J	ug/L		110	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	51.5	54.7		ug/L		106	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	51.5	55.2		ug/L		107	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	52.0	54.9		ug/L		106	50 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	84		48 - 135
2-Fluorobiphenyl	66		48 - 135
2-Fluorophenol	57		41 - 135
Nitrobenzene-d5	57		42 - 135
Phenol-d5	58		46 - 135
Terphenyl-d14	90		20 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

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

Lab Sample ID: LCSD 280-552309/3-A
Matrix: Water
Analysis Batch: 553612

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 552309

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dimethyl-3,4-Dinitrobenzene	52.0	50.1		ug/L		96	50 - 135	11	30
1,2-Dimethyl-3,5-Dinitrobenzene	49.8	50.6		ug/L		102	50 - 135	6	30
1,2-Dimethyl-3,6-Dinitrobenzene	50.5	49.6		ug/L		98	50 - 135	4	30
1,2-Dimethyl-4,5-Dinitrobenzene	51.5	54.3		ug/L		105	50 - 135	2	30
1,3-Dimethyl-2,4-Dinitrobenzene	49.5	48.9		ug/L		99	50 - 135	7	30
1,3-Dimethyl-2,5-Dinitrobenzene	51.5	49.2		ug/L		96	50 - 135	7	30
1,4-Dimethyl-2,3-Dinitrobenzene	51.8	53.0		ug/L		103	50 - 135	1	30
1,4-Dimethyl-2,5-Dinitrobenzene	51.0	50.4	J	ug/L		99	50 - 135	10	30
1,4-Dimethyl-2,6-Dinitrobenzene	51.5	52.1		ug/L		101	50 - 135	5	30
1,5-Dimethyl-2,3-Dinitrobenzene	51.5	50.4		ug/L		98	50 - 135	9	30
1,5-Dimethyl-2,4-Dinitrobenzene	52.0	54.2		ug/L		104	50 - 135	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol	81		48 - 135
2-Fluorobiphenyl	45	X	48 - 135
2-Fluorophenol	53		41 - 135
Nitrobenzene-d5	50		42 - 135
Phenol-d5	54		46 - 135
Terphenyl-d14	80		20 - 135

Lab Sample ID: 280-153602-2 MS
Matrix: Water
Analysis Batch: 553612

Client Sample ID: SW2021-SW-I001
Prep Type: Total/NA
Prep Batch: 552309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		49.8	45.6		ug/L		92	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		47.7	45.0		ug/L		94	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		48.4	42.9		ug/L		89	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		49.4	45.4		ug/L		92	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		47.5	46.8		ug/L		99	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		49.4	44.9		ug/L		91	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		49.6	45.5		ug/L		92	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73	^c	48.9	43.9	J	ug/L		90	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21	^c	49.4	47.6		ug/L		96	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		49.4	45.1		ug/L		91	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		49.8	47.4		ug/L		95	50 - 135

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol	81		48 - 135
2-Fluorobiphenyl	57		48 - 135
2-Fluorophenol	58		41 - 135
Nitrobenzene-d5	59		42 - 135
Phenol-d5	65		46 - 135
Terphenyl-d14	48		20 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

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

Lab Sample ID: 280-153602-2 MSD

Matrix: Water

Analysis Batch: 553612

Client Sample ID: SW2021-SW-I001

Prep Type: Total/NA

Prep Batch: 552309

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		49.9	44.4		ug/L		89	50 - 135	3	30	
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		47.7	41.9		ug/L		88	50 - 135	7	30	
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		48.4	43.1		ug/L		89	50 - 135	1	30	
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		49.4	46.6		ug/L		94	50 - 135	3	30	
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		47.5	40.9		ug/L		86	50 - 135	13	30	
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		49.4	45.0		ug/L		91	50 - 135	0	30	
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		49.6	48.3		ug/L		97	50 - 135	6	30	
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73	^c	48.9	43.4	J	ug/L		89	50 - 135	1	30	
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21	^c	49.4	46.2		ug/L		94	50 - 135	3	30	
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		49.4	42.9		ug/L		87	50 - 135	5	30	
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		49.9	47.3		ug/L		95	50 - 135	0	30	

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol	79		48 - 135
2-Fluorobiphenyl	52		48 - 135
2-Fluorophenol	63		41 - 135
Nitrobenzene-d5	58		42 - 135
Phenol-d5	62		46 - 135
Terphenyl-d14	50		20 - 135

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Lab Sample ID: MB 280-552323/1-A

Matrix: Water

Analysis Batch: 553084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 552323

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3,5-Trinitrobenzene	<0.017		0.10	0.017	ug/L		10/05/21 15:28	10/11/21 20:51	1
1,3-Dinitrobenzene	<0.014		0.10	0.014	ug/L		10/05/21 15:28	10/11/21 20:51	1
2,3-Dinitrotoluene	<0.015		0.10	0.015	ug/L		10/05/21 15:28	10/11/21 20:51	1
2,4,6-Trinitro-3-xylene	<0.012		0.10	0.012	ug/L		10/05/21 15:28	10/11/21 20:51	1
2,4,6-Trinitrotoluene	<0.022		0.10	0.022	ug/L		10/05/21 15:28	10/11/21 20:51	1
2,4-Dinitrotoluene	<0.019		0.10	0.019	ug/L		10/05/21 15:28	10/11/21 20:51	1
2,5-Dinitrotoluene	<0.014		0.10	0.014	ug/L		10/05/21 15:28	10/11/21 20:51	1
2,6-Dinitrotoluene	<0.022		0.10	0.022	ug/L		10/05/21 15:28	10/11/21 20:51	1
2-Amino-4,6-dinitrotoluene	<0.021		0.10	0.021	ug/L		10/05/21 15:28	10/11/21 20:51	1
2-Nitrotoluene	<0.022		0.10	0.022	ug/L		10/05/21 15:28	10/11/21 20:51	1
3,4-Dinitrotoluene	<0.020		0.10	0.020	ug/L		10/05/21 15:28	10/11/21 20:51	1
3,5-Dinitrotoluene	<0.034		0.10	0.034	ug/L		10/05/21 15:28	10/11/21 20:51	1
3-Nitrotoluene	<0.025		0.10	0.025	ug/L		10/05/21 15:28	10/11/21 20:51	1
4-Amino-2,6-dinitrotoluene	<0.019		0.10	0.019	ug/L		10/05/21 15:28	10/11/21 20:51	1
4-Nitrotoluene	<0.026		0.10	0.026	ug/L		10/05/21 15:28	10/11/21 20:51	1
HMX	<0.019		0.10	0.019	ug/L		10/05/21 15:28	10/11/21 20:51	1
Nitrobenzene	<0.033		0.10	0.033	ug/L		10/05/21 15:28	10/11/21 20:51	1
Nitroglycerin	<0.017		0.14	0.017	ug/L		10/05/21 15:28	10/11/21 20:51	1
PETN	<0.018		0.10	0.018	ug/L		10/05/21 15:28	10/11/21 20:51	1
RDX	<0.021		0.10	0.021	ug/L		10/05/21 15:28	10/11/21 20:51	1
Tetryl	<0.021		0.10	0.021	ug/L		10/05/21 15:28	10/11/21 20:51	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: MB 280-552323/1-A
Matrix: Water
Analysis Batch: 553084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552323

Surrogate	MB MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5		65		48 - 130	10/05/21 15:28	10/11/21 20:51	1

Lab Sample ID: LCS 280-552323/2-A
Matrix: Water
Analysis Batch: 553084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3,5-Trinitrobenzene	0.500	0.490		ug/L		98	48 - 135
1,3-Dinitrobenzene	0.500	0.436		ug/L		87	64 - 122
2,4,6-Trinitrotoluene	0.500	0.423		ug/L		85	10 - 145
2,4-Dinitrotoluene	0.500	0.462		ug/L		92	55 - 117
2,6-Dinitrotoluene	0.500	0.492		ug/L		98	54 - 123
2-Amino-4,6-dinitrotoluene	0.500	0.481		ug/L		96	47 - 134
2-Nitrotoluene	0.500	0.296		ug/L		59	25 - 127
3-Nitrotoluene	0.500	0.324		ug/L		65	18 - 123
4-Amino-2,6-dinitrotoluene	0.500	0.550		ug/L		110	50 - 139
4-Nitrotoluene	0.500	0.371		ug/L		74	27 - 128
HMX	0.500	0.442		ug/L		88	63 - 119
Nitrobenzene	0.500	0.282		ug/L		56	39 - 131
Nitroglycerin	0.500	0.519		ug/L		104	60 - 121
PETN	0.500	0.456		ug/L		91	46 - 151
RDX	0.500	0.528		ug/L		106	71 - 127
Tetryl	0.500	0.643		ug/L		129	15 - 134

Surrogate	LCS LCS	%Recovery	Qualifier	Limits
Nitrobenzene-d5		58		48 - 130

Lab Sample ID: 280-153602-2 MS
Matrix: Water
Analysis Batch: 553084

Client Sample ID: SW2021-SW-I001
Prep Type: Total/NA
Prep Batch: 552323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,3,5-Trinitrobenzene	<0.016		0.480	0.587		ug/L		123	48 - 135
1,3-Dinitrobenzene	<0.013		0.480	0.383		ug/L		80	64 - 122
2,4,6-Trinitrotoluene	<0.021		0.480	0.402		ug/L		84	10 - 145
2,4-Dinitrotoluene	0.023	J	0.480	0.429		ug/L		85	55 - 117
2,6-Dinitrotoluene	0.057	J	0.480	0.520		ug/L		96	54 - 123
2-Amino-4,6-dinitrotoluene	0.051	J	0.480	0.517		ug/L		97	47 - 134
3-Nitrotoluene	<0.024		0.480	0.277		ug/L		58	18 - 123
4-Amino-2,6-dinitrotoluene	0.12		0.480	0.672		ug/L		115	50 - 139
4-Nitrotoluene	<0.025		0.480	0.285		ug/L		60	27 - 128
HMX	<0.018		0.480	0.513		ug/L		107	63 - 119
Nitrobenzene	<0.032		0.480	0.265		ug/L		55	39 - 131
Nitroglycerin	<0.016		0.480	0.418		ug/L		87	60 - 121
PETN	<0.017		0.480	0.326		ug/L		68	46 - 151
RDX	<0.020		0.480	0.507		ug/L		106	71 - 127
Tetryl	<0.020		0.480	0.488		ug/L		102	15 - 134

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: 280-153602-2 MS
Matrix: Water
Analysis Batch: 553084

Client Sample ID: SW2021-SW-I001
Prep Type: Total/NA
Prep Batch: 552323

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
Nitrobenzene-d5	56		48 - 130

Lab Sample ID: 280-153602-2 MSD
Matrix: Water
Analysis Batch: 553084

Client Sample ID: SW2021-SW-I001
Prep Type: Total/NA
Prep Batch: 552323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,3,5-Trinitrobenzene	<0.016		0.481	0.551		ug/L		114	48 - 135	6	52	
1,3-Dinitrobenzene	<0.013		0.481	0.350		ug/L		73	64 - 122	9	30	
2,4,6-Trinitrotoluene	<0.021		0.481	0.369		ug/L		77	10 - 145	8	70	
2,4-Dinitrotoluene	0.023	J	0.481	0.473		ug/L		94	55 - 117	10	27	
2,6-Dinitrotoluene	0.057	J	0.481	0.526		ug/L		97	54 - 123	1	46	
2-Amino-4,6-dinitrotoluene	0.051	J	0.481	0.462		ug/L		85	47 - 134	11	52	
3-Nitrotoluene	<0.024		0.481	0.280		ug/L		58	18 - 123	1	75	
4-Amino-2,6-dinitrotoluene	0.12		0.481	0.585		ug/L		96	50 - 139	14	68	
4-Nitrotoluene	<0.025		0.481	0.298		ug/L		62	27 - 128	4	70	
HMX	<0.018		0.481	0.494		ug/L		103	63 - 119	4	48	
Nitrobenzene	<0.032		0.481	0.228		ug/L		47	39 - 131	15	55	
Nitroglycerin	<0.016		0.481	0.357		ug/L		74	60 - 121	16	62	
PETN	<0.017		0.481	0.321		ug/L		67	46 - 151	1	79	
RDX	<0.020		0.481	0.610		ug/L		127	71 - 127	18	26	
Tetryl	<0.020		0.481	0.434		ug/L		90	15 - 134	12	58	

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
Nitrobenzene-d5	54		48 - 130

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Lab Sample ID: 280-153602-2 MS
Matrix: Water
Analysis Batch: 553084

Client Sample ID: SW2021-SW-I001
Prep Type: Total/NA
Prep Batch: 552323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
2-Nitrotoluene - DL	1.8		0.480	2.21		ug/L		90	25 - 127	

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
Nitrobenzene-d5 - DL	67	D	48 - 130

Lab Sample ID: 280-153602-2 MSD
Matrix: Water
Analysis Batch: 553084

Client Sample ID: SW2021-SW-I001
Prep Type: Total/NA
Prep Batch: 552323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
2-Nitrotoluene - DL	1.8		0.481	2.13		ug/L		74	25 - 127	3	67	

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
Nitrobenzene-d5 - DL	69	D	48 - 130

QC Association Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

GC/MS Semi VOA

Prep Batch: 552309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153602-1	SW2021-SW-K001	Total/NA	Water	3520C	
280-153602-2	SW2021-SW-I001	Total/NA	Water	3520C	
280-153602-3	SW2021-SW-I001-D	Total/NA	Water	3520C	
MB 280-552309/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-552309/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-552309/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
280-153602-2 MS	SW2021-SW-I001	Total/NA	Water	3520C	
280-153602-2 MSD	SW2021-SW-I001	Total/NA	Water	3520C	

Analysis Batch: 553612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153602-1	SW2021-SW-K001	Total/NA	Water	8270C	552309
280-153602-2	SW2021-SW-I001	Total/NA	Water	8270C	552309
280-153602-3	SW2021-SW-I001-D	Total/NA	Water	8270C	552309
MB 280-552309/1-A	Method Blank	Total/NA	Water	8270C	552309
LCS 280-552309/2-A	Lab Control Sample	Total/NA	Water	8270C	552309
LCSD 280-552309/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	552309
280-153602-2 MS	SW2021-SW-I001	Total/NA	Water	8270C	552309
280-153602-2 MSD	SW2021-SW-I001	Total/NA	Water	8270C	552309

LCMS

Prep Batch: 552323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153602-1	SW2021-SW-K001	Total/NA	Water	3535	
280-153602-2	SW2021-SW-I001	Total/NA	Water	3535	
280-153602-2 - DL	SW2021-SW-I001	Total/NA	Water	3535	
280-153602-3 - DL	SW2021-SW-I001-D	Total/NA	Water	3535	
280-153602-3	SW2021-SW-I001-D	Total/NA	Water	3535	
MB 280-552323/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-552323/2-A	Lab Control Sample	Total/NA	Water	3535	
280-153602-2 MS - DL	SW2021-SW-I001	Total/NA	Water	3535	
280-153602-2 MS	SW2021-SW-I001	Total/NA	Water	3535	
280-153602-2 MSD	SW2021-SW-I001	Total/NA	Water	3535	
280-153602-2 MSD - DL	SW2021-SW-I001	Total/NA	Water	3535	

Analysis Batch: 553084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153602-1	SW2021-SW-K001	Total/NA	Water	8321A	552323
280-153602-2 - DL	SW2021-SW-I001	Total/NA	Water	8321A	552323
280-153602-2	SW2021-SW-I001	Total/NA	Water	8321A	552323
280-153602-3 - DL	SW2021-SW-I001-D	Total/NA	Water	8321A	552323
280-153602-3	SW2021-SW-I001-D	Total/NA	Water	8321A	552323
MB 280-552323/1-A	Method Blank	Total/NA	Water	8321A	552323
LCS 280-552323/2-A	Lab Control Sample	Total/NA	Water	8321A	552323
280-153602-2 MS - DL	SW2021-SW-I001	Total/NA	Water	8321A	552323
280-153602-2 MS	SW2021-SW-I001	Total/NA	Water	8321A	552323
280-153602-2 MSD - DL	SW2021-SW-I001	Total/NA	Water	8321A	552323
280-153602-2 MSD	SW2021-SW-I001	Total/NA	Water	8321A	552323

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Client Sample ID: SW2021-SW-K001

Lab Sample ID: 280-153602-1

Date Collected: 09/29/21 11:00

Matrix: Water

Date Received: 10/01/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1047.3 mL	1 mL	552309	10/05/21 11:11	EJL	TAL DEN
Total/NA	Analysis	8270C		1			553612	10/15/21 01:41	MKW	TAL DEN
Total/NA	Prep	3535			1045.8 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553084	10/11/21 22:27	AGCM	TAL DEN

Client Sample ID: SW2021-SW-I001

Lab Sample ID: 280-153602-2

Date Collected: 09/29/21 10:30

Matrix: Water

Date Received: 10/01/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1045.5 mL	1 mL	552309	10/05/21 11:11	EJL	TAL DEN
Total/NA	Analysis	8270C		1			553612	10/15/21 02:07	MKW	TAL DEN
Total/NA	Prep	3535	DL		1040.8 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	10			553084	10/11/21 21:27	AGCM	TAL DEN
Total/NA	Prep	3535			1040.8 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553084	10/11/21 22:40	AGCM	TAL DEN

Client Sample ID: SW2021-SW-I001-D

Lab Sample ID: 280-153602-3

Date Collected: 09/29/21 10:30

Matrix: Water

Date Received: 10/01/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1045.3 mL	1 mL	552309	10/05/21 11:11	EJL	TAL DEN
Total/NA	Analysis	8270C		1			553612	10/15/21 03:25	MKW	TAL DEN
Total/NA	Prep	3535	DL		1039.4 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	10			553084	10/11/21 22:03	AGCM	TAL DEN
Total/NA	Prep	3535			1039.4 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553084	10/11/21 23:16	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-552309/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	552309	10/05/21 11:11	EJL	TAL DEN
Total/NA	Analysis	8270C		1			553612	10/15/21 00:23	MKW	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-552323/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			1000 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553084	10/11/21 20:51	AGCM	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-552309/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	552309	10/05/21 11:11	EJL	TAL DEN
Total/NA	Analysis	8270C		1			553612	10/15/21 00:49	MKW	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-552323/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			1000 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553084	10/11/21 21:03	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 280-552309/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	552309	10/05/21 11:11	EJL	TAL DEN
Total/NA	Analysis	8270C		1			553612	10/15/21 01:15	MKW	TAL DEN

Client Sample ID: SW2021-SW-I001

Lab Sample ID: 280-153602-2 MS

Date Collected: 09/29/21 10:30

Matrix: Water

Date Received: 10/01/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1043.2 mL	1 mL	552309	10/05/21 11:11	EJL	TAL DEN
Total/NA	Analysis	8270C		1			553612	10/15/21 02:33	MKW	TAL DEN
Total/NA	Prep	3535	DL		1042.7 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	10			553084	10/11/21 21:39	AGCM	TAL DEN
Total/NA	Prep	3535			1042.7 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553084	10/11/21 22:52	AGCM	TAL DEN

Client Sample ID: SW2021-SW-I001

Lab Sample ID: 280-153602-2 MSD

Date Collected: 09/29/21 10:30

Matrix: Water

Date Received: 10/01/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1042.8 mL	1 mL	552309	10/05/21 11:11	EJL	TAL DEN
Total/NA	Analysis	8270C		1			553612	10/15/21 02:59	MKW	TAL DEN
Total/NA	Prep	3535	DL		1039.1 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	10			553084	10/11/21 21:51	AGCM	TAL DEN
Total/NA	Prep	3535			1039.1 mL	5 mL	552323	10/05/21 15:28	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553084	10/11/21 23:04	AGCM	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Surface Water Run-off 2021

Job ID: 280-153602-1

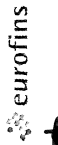
Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999615430	08-31-22

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Chain of Custody Record



Client Information Client Contact: Sharon Nordstrom Company: The Chemours Company FC, LLC Address: c/o AECOM Sabre Building, Suite 300 4051 Oglethorpe Road City: Newark State, Zip: DE, 19713 Phone: 302-781-5936(Tel) Email: sharon.nordstrom@aecom.com Project Name: BAR-Surface Water Run-off 2021 Site: Barksdale, WI		Sampler: Nesma N. Nilsen Phone: 715 533 0393 Lab PIV: Johnston, Michelle A E-Mail: Michelle.Johnston@Eurofins.com		Carrier/Tracking No(s): 4495603698 State of Origin: WI COC No: 280-107703-31473.3 Page: Page 1 of 3 Job #:	
Due Date Requested: Normal TAT Requested (days): 15 business day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: LBIO-67048 / 777201000-WH06-508001 WO #: 28003388 Project #: 28003388 SSOW#:		Analysis Requested			
Sample Identification SW2021-SW-K001 SW2021-SW-I001 SW2021-SW-I001-D SW2021-SW-I001 SW2021-SW-I001-As SW2021-SW-I001-MSD		Sample Date 9/29/21 9/29/21 9/29/21 9/29/21 9/29/21 9/29/21	Sample Time 11:00 10:30 10:30 10:30 10:30 10:30	Sample Type (C=comp, G=grab) G G G G G G	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air) water water water water water water
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8321A (DuPont List + DNT Isomer + TNX) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8270C DNX Full List <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Total Number of containers 4 X4 cooler 1 4 X2 cooler / X2 cooler 2 4 X4 cooler 2 4 X4 cooler 3 4 X4 cooler 3			
Special Instructions/Note: Special Instructions/Note:		Special Instructions/Note:			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: <i>[Signature]</i> Date: 9/29/21					
Relinquished by: <i>[Signature]</i> Date: 9/30/21 12:00 Company: AECOM					
Relinquished by: <i>[Signature]</i> Date: 12/01/2021 1040 Company: ETADEN					
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 0.9, 3.5, 3.6 CF + 1.0 IR 11					



Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 280-153602-1

Login Number: 153602

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Johnston, Michelle A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-153843-1

Client Project/Site: BAR-Clubhouse Well Sampling 2021
Revision: 2

For:

The Chemours Company FC, LLC
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom



Authorized for release by:
12/16/2021 12:17:47 PM

Michelle Johnston, Project Manager II
(303)736-0110
Michelle.Johnston@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

LCMS

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Job ID: 280-153843-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: The Chemours Company FC, LLC
Project: BAR-Clubhouse Well Sampling 2021
Report Number: 280-153843-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The LOD and LOQ for soil samples have been dry weight adjusted.

Revision - 12/16/2021

The report was revised to include an additional case narrative comment in section Explosives.

Revision - 11/4/2021

In accordance with the client's instruction received 11/3/2021, samples GW2021-CLUBHOUSE-INFLOW (280-153843-2) and GW2021-CLUBHOUSE-INFLOW-D (280-153843-3) were reported under separate cover (280-153843-2).

Sample Arrival and Receipt

The sample was received on 10/7/2021 10:55 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 5.4° C, 5.6° C and 5.8° C.

Semivolatiles

Sample GW2021-PZ16-POT-INFLOW (280-153843-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The sample was prepared on 10/12/2021 and analyzed on 10/25/2021.

The CCV and ICAL standard are outside of laboratory 1 year SOP expiration: GW2021-PZ16-POT-INFLOW (280-153843-1).

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

Explosives

Sample GW2021-PZ16-POT-INFLOW (280-153843-1) was analyzed for explosives in accordance with EPA SW-846 Method 8321A. The sample was prepared on 10/08/2021 and analyzed on 10/12/2021 and 10/14/2021.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to matrix interference with the 13C3 RDX internal standard, sample GW2021-PZ16-POT-INFLOW (280-153843-1) had to be analyzed at a dilution. The surrogate recoveries were calculated from a diluted sample. The reporting limits have been adjusted relative to the dilution required.

The 3,4-Dinitrotoluene, 2,3-Dinitrotoluene, 3,5-Dinitrotoluene, 2,4,6-Trinitro-3-xylene and 2,5-Dinitrotoluene spiking solution was omitted during the extraction process for the LCS, LCSD, MS and MSD associated with prep batch 280-552841 due to the unavailability of 2,4,6-Trinitro-3-xylene; therefore, percent recoveries are unavailable.

Target analytes 3,4-Dinitrotoluene, 2,3-Dinitrotoluene, 3,5-Dinitrotoluene, 2,4,6-Trinitro-3-xylene and 2,5-Dinitrotoluene were not available for inclusion in the initial calibration (ICAL) and continuing calibration (CCV) standards associated with this analysis. Presence/absence of these analytes in samples was assessed by review of chromatographic response at the expected retention times of these analytes (based on a previous ICAL). These analytes were determined to be Non-Detected (ND) and are reported as such at the historically generated LOD/LOQ values.

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Job ID: 280-153843-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

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Detection Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Client Sample ID: GW2021-PZ16-POT-INFLOW

Lab Sample ID: 280-153843-1

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8321A	Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL DEN
3535	Solid-Phase Extraction (SPE)	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
280-153843-1	GW2021-PZ16-POT-INFLOW	Water	10/05/21 10:50	10/07/21 10:55

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Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Client Sample ID: GW2021-PZ16-POT-INFLOW

Lab Sample ID: 280-153843-1

Date Collected: 10/05/21 10:50

Matrix: Water

Date Received: 10/07/21 10:55

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		4.8	0.23	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		4.8	0.32	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		4.8	0.39	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		4.8	0.37	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		4.8	0.43	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		4.8	0.40	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		4.8	0.36	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73		9600	0.73	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21		4.8	0.21	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		4.8	0.25	ug/L		10/12/21 16:10	10/25/21 12:34	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		4.8	0.26	ug/L		10/12/21 16:10	10/25/21 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		48 - 135	10/12/21 16:10	10/25/21 12:34	1
2-Fluorobiphenyl	57		48 - 135	10/12/21 16:10	10/25/21 12:34	1
2-Fluorophenol	62		41 - 135	10/12/21 16:10	10/25/21 12:34	1
Nitrobenzene-d5	57		42 - 135	10/12/21 16:10	10/25/21 12:34	1
Phenol-d5	59		46 - 135	10/12/21 16:10	10/25/21 12:34	1
Terphenyl-d14	78		20 - 135	10/12/21 16:10	10/25/21 12:34	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<0.016		0.096	0.016	ug/L		10/08/21 17:59	10/12/21 17:44	1
1,3-Dinitrobenzene	<0.013		0.096	0.013	ug/L		10/08/21 17:59	10/12/21 17:44	1
2,3-Dinitrotoluene	<0.014		0.096	0.014	ug/L		10/08/21 17:59	10/12/21 17:44	1
2,4,6-Trinitro-3-xylene	<0.012		0.096	0.012	ug/L		10/08/21 17:59	10/12/21 17:44	1
2,4,6-Trinitrotoluene	<0.021		0.096	0.021	ug/L		10/08/21 17:59	10/12/21 17:44	1
2,4-Dinitrotoluene	<0.018		0.096	0.018	ug/L		10/08/21 17:59	10/12/21 17:44	1
2,5-Dinitrotoluene	<0.013		0.096	0.013	ug/L		10/08/21 17:59	10/12/21 17:44	1
2,6-Dinitrotoluene	<0.021		0.096	0.021	ug/L		10/08/21 17:59	10/12/21 17:44	1
2-Amino-4,6-dinitrotoluene	<0.020		0.096	0.020	ug/L		10/08/21 17:59	10/12/21 17:44	1
2-Nitrotoluene	<0.021		0.096	0.021	ug/L		10/08/21 17:59	10/12/21 17:44	1
3,4-Dinitrotoluene	<0.019		0.096	0.019	ug/L		10/08/21 17:59	10/12/21 17:44	1
3,5-Dinitrotoluene	<0.033		0.096	0.033	ug/L		10/08/21 17:59	10/12/21 17:44	1
3-Nitrotoluene	<0.024		0.096	0.024	ug/L		10/08/21 17:59	10/12/21 17:44	1
4-Amino-2,6-dinitrotoluene	<0.018		0.096	0.018	ug/L		10/08/21 17:59	10/12/21 17:44	1
4-Nitrotoluene	<0.025		0.096	0.025	ug/L		10/08/21 17:59	10/12/21 17:44	1
HMX	<0.018		0.096	0.018	ug/L		10/08/21 17:59	10/12/21 17:44	1
Nitrobenzene	<0.032		0.096	0.032	ug/L		10/08/21 17:59	10/12/21 17:44	1
Nitroglycerin	<0.016		0.13	0.016	ug/L		10/08/21 17:59	10/12/21 17:44	1
PETN	<0.017		0.096	0.017	ug/L		10/08/21 17:59	10/12/21 17:44	1
Tetryl	<0.020		0.096	0.020	ug/L		10/08/21 17:59	10/12/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67		48 - 130	10/08/21 17:59	10/12/21 17:44	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
RDX	<0.040		0.19	0.040	ug/L		10/08/21 17:59	10/14/21 12:12	2

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Client Sample ID: GW2021-PZ16-POT-INFLOW

Lab Sample ID: 280-153843-1

Date Collected: 10/05/21 10:50

Matrix: Water

Date Received: 10/07/21 10:55

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Nitrobenzene-d5	89	D	48 - 130	10/08/21 17:59	10/14/21 12:12	2

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Surrogate Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (48-135)	FBP (48-135)	2FP (41-135)	NBZ (42-135)	PHL (46-135)	TPHL (20-135)
280-153843-1	GW2021-PZ16-POT-INFLOW	58	57	62	57	59	78
280-153843-B-2-A MS	Matrix Spike	70	53	43	45	46	83
280-153843-C-2-B MSD	Matrix Spike Duplicate	67	59	62	58	61	83
LCS 280-553243/2-A	Lab Control Sample	68	69	67	67	65	81
MB 280-553243/1-A	Method Blank	59	57	68	61	65	77

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		NBZ (48-130)
280-153843-1	GW2021-PZ16-POT-INFLOW	67
280-153843-1 - DL	GW2021-PZ16-POT-INFLOW	89 D
280-153843-A-2-A MS	Matrix Spike	86
280-153843-A-2-A MS - DL	Matrix Spike	100 D
280-153843-D-2-B MSD	Matrix Spike Duplicate	96
280-153843-D-2-B MSD - DL	Matrix Spike Duplicate	90 D
LCS 280-552841/2-A	Lab Control Sample	85
MB 280-552841/1-A	Method Blank	79

Surrogate Legend

NBZ = Nitrobenzene-d5

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

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

Lab Sample ID: MB 280-553243/1-A
Matrix: Water
Analysis Batch: 554828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553243

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dimethyl-3,4-Dinitrobenzene	<0.24		5.0	0.24	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.33		5.0	0.33	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.41		5.0	0.41	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.39		5.0	0.39	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.45		5.0	0.45	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.42		5.0	0.42	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.38		5.0	0.38	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.76		10000	0.76	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.22		5.0	0.22	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.26		5.0	0.26	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.27		5.0	0.27	ug/L		10/12/21 16:10	10/25/21 11:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	59		48 - 135	10/12/21 16:10	10/25/21 11:42	1
2-Fluorobiphenyl	57		48 - 135	10/12/21 16:10	10/25/21 11:42	1
2-Fluorophenol	68		41 - 135	10/12/21 16:10	10/25/21 11:42	1
Nitrobenzene-d5	61		42 - 135	10/12/21 16:10	10/25/21 11:42	1
Phenol-d5	65		46 - 135	10/12/21 16:10	10/25/21 11:42	1
Terphenyl-d14	77		20 - 135	10/12/21 16:10	10/25/21 11:42	1

Lab Sample ID: LCS 280-553243/2-A
Matrix: Water
Analysis Batch: 554828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553243

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	52.0	45.9		ug/L		88	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	49.8	45.8		ug/L		92	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	50.5	44.3		ug/L		88	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	51.5	45.1		ug/L		88	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	49.5	42.4		ug/L		86	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	51.5	46.8		ug/L		91	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	51.8	47.0		ug/L		91	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	51.0	45.8	J	ug/L		90	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	51.5	47.5		ug/L		92	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	51.5	45.5		ug/L		88	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	52.0	46.3		ug/L		89	50 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	68		48 - 135
2-Fluorobiphenyl	69		48 - 135
2-Fluorophenol	67		41 - 135
Nitrobenzene-d5	67		42 - 135
Phenol-d5	65		46 - 135
Terphenyl-d14	81		20 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

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

Lab Sample ID: 280-153843-B-2-A MS
Matrix: Water
Analysis Batch: 554828

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 553243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		49.5	45.5		ug/L		92	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		47.3	42.5		ug/L		90	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		48.1	43.9		ug/L		91	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		49.0	47.3		ug/L		97	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		47.1	41.8		ug/L		89	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		49.0	43.7		ug/L		89	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		49.3	43.6		ug/L		88	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73		48.5	44.5	J	ug/L		92	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21		49.0	45.3		ug/L		92	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		49.0	44.6		ug/L		91	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		49.5	47.0		ug/L		95	50 - 135

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol	70		48 - 135
2-Fluorobiphenyl	53		48 - 135
2-Fluorophenol	43		41 - 135
Nitrobenzene-d5	45		42 - 135
Phenol-d5	46		46 - 135
Terphenyl-d14	83		20 - 135

Lab Sample ID: 280-153843-C-2-B MSD
Matrix: Water
Analysis Batch: 554828

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 553243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		49.8	45.6		ug/L		92	50 - 135	0	30
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		47.6	43.8		ug/L		92	50 - 135	3	30
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		48.3	42.4		ug/L		88	50 - 135	4	30
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		49.3	46.0		ug/L		93	50 - 135	3	30
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		47.4	38.9		ug/L		82	50 - 135	7	30
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		49.3	43.1		ug/L		87	50 - 135	1	30
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		49.5	42.5		ug/L		86	50 - 135	2	30
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73		48.8	41.6	J	ug/L		85	50 - 135	7	30
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21		49.3	45.3		ug/L		92	50 - 135	0	30
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		49.3	46.4		ug/L		94	50 - 135	4	30
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		49.8	47.6		ug/L		96	50 - 135	1	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol	67		48 - 135
2-Fluorobiphenyl	59		48 - 135
2-Fluorophenol	62		41 - 135
Nitrobenzene-d5	58		42 - 135
Phenol-d5	61		46 - 135
Terphenyl-d14	83		20 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Lab Sample ID: MB 280-552841/1-A
Matrix: Water
Analysis Batch: 553348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552841

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3,5-Trinitrobenzene	<0.017		0.10	0.017	ug/L		10/08/21 17:59	10/12/21 17:20	1
1,3-Dinitrobenzene	<0.014		0.10	0.014	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,3-Dinitrotoluene	<0.015		0.10	0.015	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,4,6-Trinitro-3-xylene	NC		0.10	0.012	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,4,6-Trinitrotoluene	<0.022		0.10	0.022	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,4-Dinitrotoluene	<0.019		0.10	0.019	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,5-Dinitrotoluene	<0.014		0.10	0.014	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,6-Dinitrotoluene	<0.022		0.10	0.022	ug/L		10/08/21 17:59	10/12/21 17:20	1
2-Amino-4,6-dinitrotoluene	<0.021		0.10	0.021	ug/L		10/08/21 17:59	10/12/21 17:20	1
2-Nitrotoluene	<0.022		0.10	0.022	ug/L		10/08/21 17:59	10/12/21 17:20	1
3,4-Dinitrotoluene	<0.020		0.10	0.020	ug/L		10/08/21 17:59	10/12/21 17:20	1
3,5-Dinitrotoluene	<0.034		0.10	0.034	ug/L		10/08/21 17:59	10/12/21 17:20	1
3-Nitrotoluene	<0.025		0.10	0.025	ug/L		10/08/21 17:59	10/12/21 17:20	1
4-Amino-2,6-dinitrotoluene	<0.019		0.10	0.019	ug/L		10/08/21 17:59	10/12/21 17:20	1
4-Nitrotoluene	<0.026		0.10	0.026	ug/L		10/08/21 17:59	10/12/21 17:20	1
HMX	<0.019		0.10	0.019	ug/L		10/08/21 17:59	10/12/21 17:20	1
Nitrobenzene	<0.033		0.10	0.033	ug/L		10/08/21 17:59	10/12/21 17:20	1
Nitroglycerin	<0.017		0.14	0.017	ug/L		10/08/21 17:59	10/12/21 17:20	1
PETN	<0.018		0.10	0.018	ug/L		10/08/21 17:59	10/12/21 17:20	1
RDX	<0.021		0.10	0.021	ug/L		10/08/21 17:59	10/12/21 17:20	1
Tetryl	<0.021		0.10	0.021	ug/L		10/08/21 17:59	10/12/21 17:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	79		48 - 130	10/08/21 17:59	10/12/21 17:20	1

Lab Sample ID: LCS 280-552841/2-A
Matrix: Water
Analysis Batch: 553348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552841

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,3,5-Trinitrobenzene	0.500	0.511		ug/L		102	48 - 135
1,3-Dinitrobenzene	0.500	0.417		ug/L		83	64 - 122
2,4,6-Trinitrotoluene	0.500	0.471		ug/L		94	10 - 145
2,4-Dinitrotoluene	0.500	0.400		ug/L		80	55 - 117
2,6-Dinitrotoluene	0.500	0.454		ug/L		91	54 - 123
2-Amino-4,6-dinitrotoluene	0.500	0.491		ug/L		98	47 - 134
2-Nitrotoluene	0.500	0.471		ug/L		94	25 - 127
3-Nitrotoluene	0.500	0.416		ug/L		83	18 - 123
4-Amino-2,6-dinitrotoluene	0.500	0.558		ug/L		112	50 - 139
4-Nitrotoluene	0.500	0.461		ug/L		92	27 - 128
HMX	0.500	0.480		ug/L		96	63 - 119
Nitrobenzene	0.500	0.446		ug/L		89	39 - 131
Nitroglycerin	0.500	0.528		ug/L		106	60 - 121
PETN	0.500	0.585		ug/L		117	46 - 151
RDX	0.500	0.481		ug/L		96	71 - 127
Tetryl	0.500	0.614		ug/L		123	15 - 134

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: LCS 280-552841/2-A
Matrix: Water
Analysis Batch: 553348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552841

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	85		48 - 130

Lab Sample ID: 280-153843-A-2-A MS
Matrix: Water
Analysis Batch: 553348

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 552841

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,3,5-Trinitrobenzene	<0.016		0.484	0.461		ug/L		95	48 - 135
1,3-Dinitrobenzene	<0.013		0.484	0.396		ug/L		82	64 - 122
2,4,6-Trinitrotoluene	<0.021		0.484	0.457		ug/L		95	10 - 145
2,4-Dinitrotoluene	<0.018		0.484	0.424		ug/L		88	55 - 117
2,6-Dinitrotoluene	<0.021		0.484	0.432		ug/L		89	54 - 123
2-Amino-4,6-dinitrotoluene	<0.020		0.484	0.480		ug/L		99	47 - 134
2-Nitrotoluene	<0.021		0.484	0.489		ug/L		101	25 - 127
3-Nitrotoluene	<0.024		0.484	0.375		ug/L		78	18 - 123
4-Amino-2,6-dinitrotoluene	<0.018		0.484	0.535		ug/L		111	50 - 139
4-Nitrotoluene	<0.025		0.484	0.480		ug/L		99	27 - 128
HMX	<0.018		0.484	0.528		ug/L		109	63 - 119
Nitrobenzene	<0.032		0.484	0.449		ug/L		93	39 - 131
Nitroglycerin	<0.016		0.484	0.441		ug/L		91	60 - 121
PETN	<0.017		0.484	0.562		ug/L		116	46 - 151
Tetryl	<0.020		0.484	0.520		ug/L		108	15 - 134

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	86		48 - 130

Lab Sample ID: 280-153843-D-2-B MSD
Matrix: Water
Analysis Batch: 553348

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 552841

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,3,5-Trinitrobenzene	<0.016		0.480	0.343		ug/L		71	48 - 135	29	52
1,3-Dinitrobenzene	<0.013		0.480	0.449		ug/L		93	64 - 122	12	30
2,4,6-Trinitrotoluene	<0.021		0.480	0.541		ug/L		113	10 - 145	17	70
2,4-Dinitrotoluene	<0.018		0.480	0.391		ug/L		81	55 - 117	8	27
2,6-Dinitrotoluene	<0.021		0.480	0.391		ug/L		81	54 - 123	10	46
2-Amino-4,6-dinitrotoluene	<0.020		0.480	0.534		ug/L		111	47 - 134	10	52
2-Nitrotoluene	<0.021		0.480	0.392		ug/L		82	25 - 127	22	67
3-Nitrotoluene	<0.024		0.480	0.349		ug/L		73	18 - 123	7	75
4-Amino-2,6-dinitrotoluene	<0.018		0.480	0.545		ug/L		114	50 - 139	2	68
4-Nitrotoluene	<0.025		0.480	0.382		ug/L		80	27 - 128	23	70
HMX	<0.018		0.480	0.476		ug/L		99	63 - 119	10	48
Nitrobenzene	<0.032		0.480	0.378		ug/L		79	39 - 131	17	55
Nitroglycerin	<0.016		0.480	0.406		ug/L		85	60 - 121	8	62
PETN	<0.017		0.480	0.561		ug/L		117	46 - 151	0	79
Tetryl	<0.020		0.480	0.563		ug/L		117	15 - 134	8	58

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: 280-153843-D-2-B MSD
 Matrix: Water
 Analysis Batch: 553348

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 552841

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	96		48 - 130

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Lab Sample ID: 280-153843-A-2-A MS
 Matrix: Water
 Analysis Batch: 553552

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 552841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
RDX - DL	<0.040		0.484	0.454		ug/L		94	71 - 127

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 - DL	100	D	48 - 130

Lab Sample ID: 280-153843-D-2-B MSD
 Matrix: Water
 Analysis Batch: 553552

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 552841

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
RDX - DL	<0.040		0.480	0.467		ug/L		97	71 - 127	3	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 - DL	90	D	48 - 130

QC Association Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

GC/MS Semi VOA

Prep Batch: 553243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-1	GW2021-PZ16-POT-INFLOW	Total/NA	Water	3520C	
MB 280-553243/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-553243/2-A	Lab Control Sample	Total/NA	Water	3520C	
280-153843-B-2-A MS	Matrix Spike	Total/NA	Water	3520C	
280-153843-C-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	

Analysis Batch: 554828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-1	GW2021-PZ16-POT-INFLOW	Total/NA	Water	8270C	553243
MB 280-553243/1-A	Method Blank	Total/NA	Water	8270C	553243
LCS 280-553243/2-A	Lab Control Sample	Total/NA	Water	8270C	553243
280-153843-B-2-A MS	Matrix Spike	Total/NA	Water	8270C	553243
280-153843-C-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270C	553243

LCMS

Prep Batch: 552841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-1 - DL	GW2021-PZ16-POT-INFLOW	Total/NA	Water	3535	
280-153843-1	GW2021-PZ16-POT-INFLOW	Total/NA	Water	3535	
MB 280-552841/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-552841/2-A	Lab Control Sample	Total/NA	Water	3535	
280-153843-A-2-A MS	Matrix Spike	Total/NA	Water	3535	
280-153843-A-2-A MS - DL	Matrix Spike	Total/NA	Water	3535	
280-153843-D-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3535	
280-153843-D-2-B MSD - DL	Matrix Spike Duplicate	Total/NA	Water	3535	

Analysis Batch: 553348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-1	GW2021-PZ16-POT-INFLOW	Total/NA	Water	8321A	552841
MB 280-552841/1-A	Method Blank	Total/NA	Water	8321A	552841
LCS 280-552841/2-A	Lab Control Sample	Total/NA	Water	8321A	552841
280-153843-A-2-A MS	Matrix Spike	Total/NA	Water	8321A	552841
280-153843-D-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8321A	552841

Analysis Batch: 553552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-1 - DL	GW2021-PZ16-POT-INFLOW	Total/NA	Water	8321A	552841
280-153843-A-2-A MS - DL	Matrix Spike	Total/NA	Water	8321A	552841
280-153843-D-2-B MSD - DL	Matrix Spike Duplicate	Total/NA	Water	8321A	552841

Lab Chronicle

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Client Sample ID: GW2021-PZ16-POT-INFLOW

Lab Sample ID: 280-153843-1

Date Collected: 10/05/21 10:50

Matrix: Water

Date Received: 10/07/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1046 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	554828	10/25/21 12:34	SP	TAL DEN
Total/NA	Prep	3535			1037.4 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 17:44	AGCM	TAL DEN
Total/NA	Prep	3535	DL		1037.4 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	2			553552	10/14/21 12:12	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-552841/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			1000 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 17:20	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-553243/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1			554828	10/25/21 11:42	SP	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-552841/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			1000 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 17:32	AGCM	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-553243/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1			554828	10/25/21 12:08	SP	TAL DEN

Client Sample ID: Matrix Spike

Lab Sample ID: 280-153843-A-2-A MS

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			1033.5 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 18:08	AGCM	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Client Sample ID: Matrix Spike

Lab Sample ID: 280-153843-A-2-A MS

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		1033.5 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	2			553552	10/14/21 12:36	AGCM	TAL DEN

Client Sample ID: Matrix Spike

Lab Sample ID: 280-153843-B-2-A MS

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050.7 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	554828	10/25/21 13:27	SP	TAL DEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 280-153843-C-2-B MSD

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1044.6 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	554828	10/25/21 13:53	SP	TAL DEN

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 280-153843-D-2-B MSD

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			1040.8 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 18:20	AGCM	TAL DEN
Total/NA	Prep	3535	DL		1040.8 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	2			553552	10/14/21 12:48	AGCM	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-1

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999615430	08-31-22

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Chain of Custody Record

Cooler 2

Client Information Client Contact: Sharon Nordstrom Company: The Chemours Company FC, LLC Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road City: Newark State, Zip: DE, 19713 Phone: 302-781-5936(Tel) Email: sharon.nordstrom@aecom.com Project Name: BAR-Clubhouse Well Sampling 2021 Site: Barksdale, WI		Sampler: <i>Desmond Nelson</i> Lab PIV: Johnston, Michelle A Phone: 715 533 0313 E-Mail: Michelle.Johnston@Eurofins.com PWSID:		Carrier Tracking No(s): <i>5293 4060</i> State of Origin: <i>WI</i> COC No: 280-112629-26119.1 Page: <i>3 of 4</i> Job #: <i>0 + M</i>						
Due Date Requested: TAT Requested (days): 15 business day Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: LBIO-67048 / 77201000-WH06-507419 WO #:		Analysis Requested								
Matrix (Water, Solid, Onwastefoil, BT-Tissue, AAM) Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8270C DNx 8321A Explosives DuPont List+DNT Isomers+TNX								
Sample Identification GW2021-CLUBHOUSE-INFLOW GW2021-CLUBHOUSE-INFLOW-MS GW2021-CLUBHOUSE-INFLOW-MSD GW2021-CLUBHOUSE-INFLOW-D	Matrix Water Water Water Water	Sample Type G G G G	Sample Time 1200 1200 1200 1200	Sample Date 10/5/21 10/5/21 10/5/21 10/5/21	Field Filtered Sample (Yes or No) Y Y Y Y	Perform MS/MSD (Yes or No) X X X X	8270C DNx N N N N	8321A Explosives DuPont List+DNT Isomers+TNX N N N N	Total Number of Containers X X X X	Special Instructions/Note: Please log each COC in separate logins. <i>X4 in cooler 2</i> Do not log -MS or -MSD in the QC IDs. <i>X4 in cooler 2</i> <i>X2 in cooler 1, X2 in cooler 3</i> Field Duplicate <i>X4 in cooler 3</i>
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)								
Empty Kit Relinquished by: <i>DN</i> Relinquished by: <i>Desmond Nelson</i> Relinquished by:		Special Instructions/QC Requirements:								
Date/Time: 10/5/21 12:00 Date/Time:		Date/Time: 10/7/2021 1055 Date/Time:		Date/Time:						
Company: AECOM Company:		Company: STA Company:		Company:						
Date/Time:		Date/Time:		Date/Time:						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:								



Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 280-153843-1

Login Number: 153843

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Johnston, Michelle A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-153843-2

Client Project/Site: BAR-Clubhouse Well Sampling 2021
Revision: 1

For:

The Chemours Company FC, LLC
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom



Authorized for release by:
12/20/2021 11:07:48 AM

Michelle Johnston, Project Manager II
(303)736-0110

Michelle.Johnston@Eurofinset.com

LINKS

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

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

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



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Definitions/Glossary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

LCMS

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Job ID: 280-153843-2

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: The Chemours Company FC, LLC
Project: BAR-Clubhouse Well Sampling 2021
Report Number: 280-153843-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The LOD and LOQ for soil samples have been dry weight adjusted.

Revision - 12/20/2021

The report was revised for the following:

- Report sample GW2021-CLUBHOUSE-INFLOW (280-153843-2) as ND for all DNT analytes, including 3,4-DNT and 2,3-DNT.
- Additional case narrative comment added to section Explosives.

Sample Arrival and Receipt

The samples were received on 10/7/2021 10:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 5.4° C, 5.6° C and 5.8° C.

Receipt Exceptions

In accordance with the client's instruction received 11/3/2021, sample GW2021-PZ16-POT-INFLOW (280-153843-1) was reported under separate cover (280-153843-1).

No other anomalies were observed during sample receipt.

Semivolatiles

Samples GW2021-CLUBHOUSE-INFLOW (280-153843-2) and GW2021-CLUBHOUSE-INFLOW-D (280-153843-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/12/2021 and analyzed on 10/25/2021.

The CCV and ICAL standard are outside of laboratory 1 year SOP expiration: GW2021-CLUBHOUSE-INFLOW (280-153843-2), GW2021-CLUBHOUSE-INFLOW (280-153843-2[MS]), GW2021-CLUBHOUSE-INFLOW (280-153843-2[MSD]) and GW2021-CLUBHOUSE-INFLOW-D (280-153843-3).

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

Explosives

Samples GW2021-CLUBHOUSE-INFLOW (280-153843-2) and GW2021-CLUBHOUSE-INFLOW-D (280-153843-3) were analyzed for explosives in accordance with EPA SW-846 Method 8321A. The samples were prepared on 10/08/2021 and analyzed on 10/12/2021 and 10/14/2021.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to matrix interference with the 13C3 RDX internal standard, samples GW2021-CLUBHOUSE-INFLOW (280-153843-2) and GW2021-CLUBHOUSE-INFLOW-D (280-153843-3) had to be analyzed at dilutions. The surrogate recoveries were calculated from diluted samples. The reporting limits have been adjusted relative to the dilutions required.

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Job ID: 280-153843-2 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

The 3,4-Dinitrotoluene, 2,3-Dinitrotoluene, 3,5-Dinitrotoluene, 2,4,6-Trinitro-3-xylene and 2,5-Dinitrotoluene spiking solution was omitted during the extraction process for the LCS, LCSD, MS and MSD associated with prep batch 280-552841 due to the unavailability of 2,4,6-Trinitro-3-xylene; therefore, percent recoveries are unavailable.

Target analytes 3,4-Dinitrotoluene, 2,3-Dinitrotoluene, 3,5-Dinitrotoluene, 2,4,6-Trinitro-3-xylene and 2,5-Dinitrotoluene were not available for inclusion in the initial calibration (ICAL) and continuing calibration (CCV) standards associated with this analysis. Presence/absence of these analytes in samples was assessed by review of chromatographic response at the expected retention times of these analytes (based on a previous ICAL). These analytes were determined to be Non-Detected (ND) and are reported as such at the historically generated LOD/LOQ values.

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



Detection Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Client Sample ID: GW2021-CLUBHOUSE-INFLOW

Lab Sample ID: 280-153843-2

No Detections.

Client Sample ID: GW2021-CLUBHOUSE-INFLOW-D

Lab Sample ID: 280-153843-3

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8321A	Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL DEN
3535	Solid-Phase Extraction (SPE)	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Sample Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
280-153843-2	GW2021-CLUBHOUSE-INFLOW	Water	10/05/21 12:00	10/07/21 10:55
280-153843-3	GW2021-CLUBHOUSE-INFLOW-D	Water	10/05/21 12:00	10/07/21 10:55

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Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Client Sample ID: GW2021-CLUBHOUSE-INFLOW

Lab Sample ID: 280-153843-2

Date Collected: 10/05/21 12:00

Matrix: Water

Date Received: 10/07/21 10:55

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		4.8	0.23	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		4.8	0.32	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		4.8	0.39	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		4.8	0.37	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		4.8	0.43	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		4.8	0.40	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		4.8	0.36	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73		9600	0.73	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21		4.8	0.21	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		4.8	0.25	ug/L		10/12/21 16:10	10/25/21 13:00	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		4.8	0.26	ug/L		10/12/21 16:10	10/25/21 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		48 - 135	10/12/21 16:10	10/25/21 13:00	1
2-Fluorobiphenyl	65		48 - 135	10/12/21 16:10	10/25/21 13:00	1
2-Fluorophenol	61		41 - 135	10/12/21 16:10	10/25/21 13:00	1
Nitrobenzene-d5	61		42 - 135	10/12/21 16:10	10/25/21 13:00	1
Phenol-d5	66		46 - 135	10/12/21 16:10	10/25/21 13:00	1
Terphenyl-d14	84		20 - 135	10/12/21 16:10	10/25/21 13:00	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<0.016		0.096	0.016	ug/L		10/08/21 17:59	10/12/21 17:56	1
1,3-Dinitrobenzene	<0.013		0.096	0.013	ug/L		10/08/21 17:59	10/12/21 17:56	1
2,3-Dinitrotoluene	<0.014		0.096	0.014	ug/L		10/08/21 17:59	10/12/21 17:56	1
2,4,6-Trinitro-3-xylene	<0.012		0.096	0.012	ug/L		10/08/21 17:59	10/12/21 17:56	1
2,4,6-Trinitrotoluene	<0.021		0.096	0.021	ug/L		10/08/21 17:59	10/12/21 17:56	1
2,4-Dinitrotoluene	<0.018		0.096	0.018	ug/L		10/08/21 17:59	10/12/21 17:56	1
2,5-Dinitrotoluene	<0.013		0.096	0.013	ug/L		10/08/21 17:59	10/12/21 17:56	1
2,6-Dinitrotoluene	<0.021		0.096	0.021	ug/L		10/08/21 17:59	10/12/21 17:56	1
2-Amino-4,6-dinitrotoluene	<0.020		0.096	0.020	ug/L		10/08/21 17:59	10/12/21 17:56	1
2-Nitrotoluene	<0.021		0.096	0.021	ug/L		10/08/21 17:59	10/12/21 17:56	1
3,4-Dinitrotoluene	<0.019		0.096	0.019	ug/L		10/08/21 17:59	10/12/21 17:56	1
3,5-Dinitrotoluene	<0.033		0.096	0.033	ug/L		10/08/21 17:59	10/12/21 17:56	1
3-Nitrotoluene	<0.024		0.096	0.024	ug/L		10/08/21 17:59	10/12/21 17:56	1
4-Amino-2,6-dinitrotoluene	<0.018		0.096	0.018	ug/L		10/08/21 17:59	10/12/21 17:56	1
4-Nitrotoluene	<0.025		0.096	0.025	ug/L		10/08/21 17:59	10/12/21 17:56	1
HMX	<0.018		0.096	0.018	ug/L		10/08/21 17:59	10/12/21 17:56	1
Nitrobenzene	<0.032		0.096	0.032	ug/L		10/08/21 17:59	10/12/21 17:56	1
Nitroglycerin	<0.016		0.13	0.016	ug/L		10/08/21 17:59	10/12/21 17:56	1
PETN	<0.017		0.096	0.017	ug/L		10/08/21 17:59	10/12/21 17:56	1
Tetryl	<0.020		0.096	0.020	ug/L		10/08/21 17:59	10/12/21 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	89		48 - 130	10/08/21 17:59	10/12/21 17:56	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
RDX	<0.040		0.19	0.040	ug/L		10/08/21 17:59	10/14/21 12:24	2

Eurofins TestAmerica, Denver

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Client Sample ID: GW2021-CLUBHOUSE-INFLOW

Lab Sample ID: 280-153843-2

Date Collected: 10/05/21 12:00

Matrix: Water

Date Received: 10/07/21 10:55

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Nitrobenzene-d5	80	D	48 - 130	10/08/21 17:59	10/14/21 12:24	2

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Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Client Sample ID: GW2021-CLUBHOUSE-INFLOW-D

Lab Sample ID: 280-153843-3

Date Collected: 10/05/21 12:00

Matrix: Water

Date Received: 10/07/21 10:55

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		4.8	0.23	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.31		4.8	0.31	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		4.8	0.39	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		4.8	0.37	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		4.8	0.43	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		4.8	0.40	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		4.8	0.36	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73		9500	0.73	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21		4.8	0.21	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		4.8	0.25	ug/L		10/12/21 16:10	10/25/21 14:19	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		4.8	0.26	ug/L		10/12/21 16:10	10/25/21 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		48 - 135	10/12/21 16:10	10/25/21 14:19	1
2-Fluorobiphenyl	64		48 - 135	10/12/21 16:10	10/25/21 14:19	1
2-Fluorophenol	67		41 - 135	10/12/21 16:10	10/25/21 14:19	1
Nitrobenzene-d5	64		42 - 135	10/12/21 16:10	10/25/21 14:19	1
Phenol-d5	66		46 - 135	10/12/21 16:10	10/25/21 14:19	1
Terphenyl-d14	82		20 - 135	10/12/21 16:10	10/25/21 14:19	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<0.016		0.095	0.016	ug/L		10/08/21 17:59	10/12/21 18:33	1
1,3-Dinitrobenzene	<0.013		0.095	0.013	ug/L		10/08/21 17:59	10/12/21 18:33	1
2,3-Dinitrotoluene	<0.014		0.095	0.014	ug/L		10/08/21 17:59	10/12/21 18:33	1
2,4,6-Trinitro-3-xylene	<0.011		0.095	0.011	ug/L		10/08/21 17:59	10/12/21 18:33	1
2,4,6-Trinitrotoluene	<0.021		0.095	0.021	ug/L		10/08/21 17:59	10/12/21 18:33	1
2,4-Dinitrotoluene	<0.018		0.095	0.018	ug/L		10/08/21 17:59	10/12/21 18:33	1
2,5-Dinitrotoluene	<0.013		0.095	0.013	ug/L		10/08/21 17:59	10/12/21 18:33	1
2,6-Dinitrotoluene	<0.021		0.095	0.021	ug/L		10/08/21 17:59	10/12/21 18:33	1
2-Amino-4,6-dinitrotoluene	<0.020		0.095	0.020	ug/L		10/08/21 17:59	10/12/21 18:33	1
2-Nitrotoluene	<0.021		0.095	0.021	ug/L		10/08/21 17:59	10/12/21 18:33	1
3,4-Dinitrotoluene	<0.019		0.095	0.019	ug/L		10/08/21 17:59	10/12/21 18:33	1
3,5-Dinitrotoluene	<0.032		0.095	0.032	ug/L		10/08/21 17:59	10/12/21 18:33	1
3-Nitrotoluene	<0.024		0.095	0.024	ug/L		10/08/21 17:59	10/12/21 18:33	1
4-Amino-2,6-dinitrotoluene	<0.018		0.095	0.018	ug/L		10/08/21 17:59	10/12/21 18:33	1
4-Nitrotoluene	<0.025		0.095	0.025	ug/L		10/08/21 17:59	10/12/21 18:33	1
HMX	<0.018		0.095	0.018	ug/L		10/08/21 17:59	10/12/21 18:33	1
Nitrobenzene	<0.031		0.095	0.031	ug/L		10/08/21 17:59	10/12/21 18:33	1
Nitroglycerin	<0.016		0.13	0.016	ug/L		10/08/21 17:59	10/12/21 18:33	1
PETN	<0.017		0.095	0.017	ug/L		10/08/21 17:59	10/12/21 18:33	1
Tetryl	<0.020		0.095	0.020	ug/L		10/08/21 17:59	10/12/21 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	86		48 - 130	10/08/21 17:59	10/12/21 18:33	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
RDX	<0.040		0.19	0.040	ug/L		10/08/21 17:59	10/14/21 13:00	2

Eurofins TestAmerica, Denver

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Client Sample ID: GW2021-CLUBHOUSE-INFLOW-D

Lab Sample ID: 280-153843-3

Date Collected: 10/05/21 12:00

Matrix: Water

Date Received: 10/07/21 10:55

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Nitrobenzene-d5	100	D	48 - 130	10/08/21 17:59	10/14/21 13:00	2

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Surrogate Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (48-135)	FBP (48-135)	2FP (41-135)	NBZ (42-135)	PHL (46-135)	TPHL (20-135)
280-153843-2	GW2021-CLUBHOUSE-INFLOW	74	65	61	61	66	84
280-153843-2 MS	GW2021-CLUBHOUSE-INFLOW	70	53	43	45	46	83
280-153843-2 MSD	GW2021-CLUBHOUSE-INFLOW	67	59	62	58	61	83
280-153843-3	GW2021-CLUBHOUSE-INFLOW -D	67	64	67	64	66	82
LCS 280-553243/2-A	Lab Control Sample	68	69	67	67	65	81
MB 280-553243/1-A	Method Blank	59	57	68	61	65	77

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	NBZ
		(48-130)
280-153843-2	GW2021-CLUBHOUSE-INFLOW	89
280-153843-2 - DL	GW2021-CLUBHOUSE-INFLOW	80 D
280-153843-2 MS	GW2021-CLUBHOUSE-INFLOW	86
280-153843-2 MS - DL	GW2021-CLUBHOUSE-INFLOW	100 D
280-153843-2 MSD	GW2021-CLUBHOUSE-INFLOW	96
280-153843-2 MSD - DL	GW2021-CLUBHOUSE-INFLOW	90 D
280-153843-3	GW2021-CLUBHOUSE-INFLOW -D	86
280-153843-3 - DL	GW2021-CLUBHOUSE-INFLOW -D	100 D
LCS 280-552841/2-A	Lab Control Sample	85
MB 280-552841/1-A	Method Blank	79

Surrogate Legend

NBZ = Nitrobenzene-d5

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

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

Lab Sample ID: MB 280-553243/1-A
Matrix: Water
Analysis Batch: 554828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553243

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dimethyl-3,4-Dinitrobenzene	<0.24		5.0	0.24	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,2-Dimethyl-3,5-Dinitrobenzene	<0.33		5.0	0.33	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,2-Dimethyl-3,6-Dinitrobenzene	<0.41		5.0	0.41	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,2-Dimethyl-4,5-Dinitrobenzene	<0.39		5.0	0.39	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,3-Dimethyl-2,4-Dinitrobenzene	<0.45		5.0	0.45	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,3-Dimethyl-2,5-Dinitrobenzene	<0.42		5.0	0.42	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,4-Dimethyl-2,3-Dinitrobenzene	<0.38		5.0	0.38	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,4-Dimethyl-2,5-Dinitrobenzene	<0.76		10000	0.76	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,4-Dimethyl-2,6-Dinitrobenzene	<0.22		5.0	0.22	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,5-Dimethyl-2,3-Dinitrobenzene	<0.26		5.0	0.26	ug/L		10/12/21 16:10	10/25/21 11:42	1
1,5-Dimethyl-2,4-Dinitrobenzene	<0.27		5.0	0.27	ug/L		10/12/21 16:10	10/25/21 11:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	59		48 - 135	10/12/21 16:10	10/25/21 11:42	1
2-Fluorobiphenyl	57		48 - 135	10/12/21 16:10	10/25/21 11:42	1
2-Fluorophenol	68		41 - 135	10/12/21 16:10	10/25/21 11:42	1
Nitrobenzene-d5	61		42 - 135	10/12/21 16:10	10/25/21 11:42	1
Phenol-d5	65		46 - 135	10/12/21 16:10	10/25/21 11:42	1
Terphenyl-d14	77		20 - 135	10/12/21 16:10	10/25/21 11:42	1

Lab Sample ID: LCS 280-553243/2-A
Matrix: Water
Analysis Batch: 554828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553243

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	52.0	45.9		ug/L		88	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	49.8	45.8		ug/L		92	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	50.5	44.3		ug/L		88	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	51.5	45.1		ug/L		88	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	49.5	42.4		ug/L		86	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	51.5	46.8		ug/L		91	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	51.8	47.0		ug/L		91	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	51.0	45.8	J	ug/L		90	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	51.5	47.5		ug/L		92	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	51.5	45.5		ug/L		88	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	52.0	46.3		ug/L		89	50 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	68		48 - 135
2-Fluorobiphenyl	69		48 - 135
2-Fluorophenol	67		41 - 135
Nitrobenzene-d5	67		42 - 135
Phenol-d5	65		46 - 135
Terphenyl-d14	81		20 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

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

Lab Sample ID: 280-153843-2 MS

Matrix: Water

Analysis Batch: 554828

Client Sample ID: GW2021-CLUBHOUSE-INFLOW

Prep Type: Total/NA

Prep Batch: 553243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		49.5	45.5		ug/L		92	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		47.3	42.5		ug/L		90	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		48.1	43.9		ug/L		91	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		49.0	47.3		ug/L		97	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		47.1	41.8		ug/L		89	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		49.0	43.7		ug/L		89	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		49.3	43.6		ug/L		88	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73		48.5	44.5	J	ug/L		92	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21		49.0	45.3		ug/L		92	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		49.0	44.6		ug/L		91	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		49.5	47.0		ug/L		95	50 - 135

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol	70		48 - 135
2-Fluorobiphenyl	53		48 - 135
2-Fluorophenol	43		41 - 135
Nitrobenzene-d5	45		42 - 135
Phenol-d5	46		46 - 135
Terphenyl-d14	83		20 - 135

Lab Sample ID: 280-153843-2 MSD

Matrix: Water

Analysis Batch: 554828

Client Sample ID: GW2021-CLUBHOUSE-INFLOW

Prep Type: Total/NA

Prep Batch: 553243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dimethyl-3,4-Dinitrobenzene	<0.23		49.8	45.6		ug/L		92	50 - 135	0	30
1,2-Dimethyl-3,5-Dinitrobenzene	<0.32		47.6	43.8		ug/L		92	50 - 135	3	30
1,2-Dimethyl-3,6-Dinitrobenzene	<0.39		48.3	42.4		ug/L		88	50 - 135	4	30
1,2-Dimethyl-4,5-Dinitrobenzene	<0.37		49.3	46.0		ug/L		93	50 - 135	3	30
1,3-Dimethyl-2,4-Dinitrobenzene	<0.43		47.4	38.9		ug/L		82	50 - 135	7	30
1,3-Dimethyl-2,5-Dinitrobenzene	<0.40		49.3	43.1		ug/L		87	50 - 135	1	30
1,4-Dimethyl-2,3-Dinitrobenzene	<0.36		49.5	42.5		ug/L		86	50 - 135	2	30
1,4-Dimethyl-2,5-Dinitrobenzene	<0.73		48.8	41.6	J	ug/L		85	50 - 135	7	30
1,4-Dimethyl-2,6-Dinitrobenzene	<0.21		49.3	45.3		ug/L		92	50 - 135	0	30
1,5-Dimethyl-2,3-Dinitrobenzene	<0.25		49.3	46.4		ug/L		94	50 - 135	4	30
1,5-Dimethyl-2,4-Dinitrobenzene	<0.26		49.8	47.6		ug/L		96	50 - 135	1	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol	67		48 - 135
2-Fluorobiphenyl	59		48 - 135
2-Fluorophenol	62		41 - 135
Nitrobenzene-d5	58		42 - 135
Phenol-d5	61		46 - 135
Terphenyl-d14	83		20 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Lab Sample ID: MB 280-552841/1-A
Matrix: Water
Analysis Batch: 553348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552841

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3,5-Trinitrobenzene	<0.017		0.10	0.017	ug/L		10/08/21 17:59	10/12/21 17:20	1
1,3-Dinitrobenzene	<0.014		0.10	0.014	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,3-Dinitrotoluene	<0.015		0.10	0.015	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,4,6-Trinitro-3-xylene	NC		0.10	0.012	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,4,6-Trinitrotoluene	<0.022		0.10	0.022	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,4-Dinitrotoluene	<0.019		0.10	0.019	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,5-Dinitrotoluene	<0.014		0.10	0.014	ug/L		10/08/21 17:59	10/12/21 17:20	1
2,6-Dinitrotoluene	<0.022		0.10	0.022	ug/L		10/08/21 17:59	10/12/21 17:20	1
2-Amino-4,6-dinitrotoluene	<0.021		0.10	0.021	ug/L		10/08/21 17:59	10/12/21 17:20	1
2-Nitrotoluene	<0.022		0.10	0.022	ug/L		10/08/21 17:59	10/12/21 17:20	1
3,4-Dinitrotoluene	<0.020		0.10	0.020	ug/L		10/08/21 17:59	10/12/21 17:20	1
3,5-Dinitrotoluene	<0.034		0.10	0.034	ug/L		10/08/21 17:59	10/12/21 17:20	1
3-Nitrotoluene	<0.025		0.10	0.025	ug/L		10/08/21 17:59	10/12/21 17:20	1
4-Amino-2,6-dinitrotoluene	<0.019		0.10	0.019	ug/L		10/08/21 17:59	10/12/21 17:20	1
4-Nitrotoluene	<0.026		0.10	0.026	ug/L		10/08/21 17:59	10/12/21 17:20	1
HMX	<0.019		0.10	0.019	ug/L		10/08/21 17:59	10/12/21 17:20	1
Nitrobenzene	<0.033		0.10	0.033	ug/L		10/08/21 17:59	10/12/21 17:20	1
Nitroglycerin	<0.017		0.14	0.017	ug/L		10/08/21 17:59	10/12/21 17:20	1
PETN	<0.018		0.10	0.018	ug/L		10/08/21 17:59	10/12/21 17:20	1
RDX	<0.021		0.10	0.021	ug/L		10/08/21 17:59	10/12/21 17:20	1
Tetryl	<0.021		0.10	0.021	ug/L		10/08/21 17:59	10/12/21 17:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	79		48 - 130	10/08/21 17:59	10/12/21 17:20	1

Lab Sample ID: LCS 280-552841/2-A
Matrix: Water
Analysis Batch: 553348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552841

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,3,5-Trinitrobenzene	0.500	0.511		ug/L		102	48 - 135
1,3-Dinitrobenzene	0.500	0.417		ug/L		83	64 - 122
2,4,6-Trinitrotoluene	0.500	0.471		ug/L		94	10 - 145
2,4-Dinitrotoluene	0.500	0.400		ug/L		80	55 - 117
2,6-Dinitrotoluene	0.500	0.454		ug/L		91	54 - 123
2-Amino-4,6-dinitrotoluene	0.500	0.491		ug/L		98	47 - 134
2-Nitrotoluene	0.500	0.471		ug/L		94	25 - 127
3-Nitrotoluene	0.500	0.416		ug/L		83	18 - 123
4-Amino-2,6-dinitrotoluene	0.500	0.558		ug/L		112	50 - 139
4-Nitrotoluene	0.500	0.461		ug/L		92	27 - 128
HMX	0.500	0.480		ug/L		96	63 - 119
Nitrobenzene	0.500	0.446		ug/L		89	39 - 131
Nitroglycerin	0.500	0.528		ug/L		106	60 - 121
PETN	0.500	0.585		ug/L		117	46 - 151
RDX	0.500	0.481		ug/L		96	71 - 127
Tetryl	0.500	0.614		ug/L		123	15 - 134

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: LCS 280-552841/2-A
Matrix: Water
Analysis Batch: 553348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552841

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	85		48 - 130

Lab Sample ID: 280-153843-2 MS
Matrix: Water
Analysis Batch: 553348

Client Sample ID: GW2021-CLUBHOUSE-INFLOW
Prep Type: Total/NA
Prep Batch: 552841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits	%Rec.
				Result	Qualifier					
1,3,5-Trinitrobenzene	<0.016		0.484	0.461		ug/L		95	48 - 135	
1,3-Dinitrobenzene	<0.013		0.484	0.396		ug/L		82	64 - 122	
2,4,6-Trinitrotoluene	<0.021		0.484	0.457		ug/L		95	10 - 145	
2,4-Dinitrotoluene	<0.018		0.484	0.424		ug/L		88	55 - 117	
2,6-Dinitrotoluene	<0.021		0.484	0.432		ug/L		89	54 - 123	
2-Amino-4,6-dinitrotoluene	<0.020		0.484	0.480		ug/L		99	47 - 134	
2-Nitrotoluene	<0.021		0.484	0.489		ug/L		101	25 - 127	
3-Nitrotoluene	<0.024		0.484	0.375		ug/L		78	18 - 123	
4-Amino-2,6-dinitrotoluene	<0.018		0.484	0.535		ug/L		111	50 - 139	
4-Nitrotoluene	<0.025		0.484	0.480		ug/L		99	27 - 128	
HMX	<0.018		0.484	0.528		ug/L		109	63 - 119	
Nitrobenzene	<0.032		0.484	0.449		ug/L		93	39 - 131	
Nitroglycerin	<0.016		0.484	0.441		ug/L		91	60 - 121	
PETN	<0.017		0.484	0.562		ug/L		116	46 - 151	
Tetryl	<0.020		0.484	0.520		ug/L		108	15 - 134	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	86		48 - 130

Lab Sample ID: 280-153843-2 MSD
Matrix: Water
Analysis Batch: 553348

Client Sample ID: GW2021-CLUBHOUSE-INFLOW
Prep Type: Total/NA
Prep Batch: 552841

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
1,3,5-Trinitrobenzene	<0.016		0.480	0.343		ug/L		71	48 - 135	29	52
1,3-Dinitrobenzene	<0.013		0.480	0.449		ug/L		93	64 - 122	12	30
2,4,6-Trinitrotoluene	<0.021		0.480	0.541		ug/L		113	10 - 145	17	70
2,4-Dinitrotoluene	<0.018		0.480	0.391		ug/L		81	55 - 117	8	27
2,6-Dinitrotoluene	<0.021		0.480	0.391		ug/L		81	54 - 123	10	46
2-Amino-4,6-dinitrotoluene	<0.020		0.480	0.534		ug/L		111	47 - 134	10	52
2-Nitrotoluene	<0.021		0.480	0.392		ug/L		82	25 - 127	22	67
3-Nitrotoluene	<0.024		0.480	0.349		ug/L		73	18 - 123	7	75
4-Amino-2,6-dinitrotoluene	<0.018		0.480	0.545		ug/L		114	50 - 139	2	68
4-Nitrotoluene	<0.025		0.480	0.382		ug/L		80	27 - 128	23	70
HMX	<0.018		0.480	0.476		ug/L		99	63 - 119	10	48
Nitrobenzene	<0.032		0.480	0.378		ug/L		79	39 - 131	17	55
Nitroglycerin	<0.016		0.480	0.406		ug/L		85	60 - 121	8	62
PETN	<0.017		0.480	0.561		ug/L		117	46 - 151	0	79
Tetryl	<0.020		0.480	0.563		ug/L		117	15 - 134	8	58

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: 280-153843-2 MSD
 Matrix: Water
 Analysis Batch: 553348

Client Sample ID: GW2021-CLUBHOUSE-INFLOW
 Prep Type: Total/NA
 Prep Batch: 552841

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	96		48 - 130

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Lab Sample ID: 280-153843-2 MS
 Matrix: Water
 Analysis Batch: 553552

Client Sample ID: GW2021-CLUBHOUSE-INFLOW
 Prep Type: Total/NA
 Prep Batch: 552841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
RDX - DL	<0.040		0.484	0.454		ug/L		94	71 - 127

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 - DL	100	D	48 - 130

Lab Sample ID: 280-153843-2 MSD
 Matrix: Water
 Analysis Batch: 553552

Client Sample ID: GW2021-CLUBHOUSE-INFLOW
 Prep Type: Total/NA
 Prep Batch: 552841

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
RDX - DL	<0.040		0.480	0.467		ug/L		97	71 - 127	3	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 - DL	90	D	48 - 130

QC Association Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

GC/MS Semi VOA

Prep Batch: 553243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-2	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3520C	
280-153843-3	GW2021-CLUBHOUSE-INFLOW-D	Total/NA	Water	3520C	
MB 280-553243/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-553243/2-A	Lab Control Sample	Total/NA	Water	3520C	
280-153843-2 MS	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3520C	
280-153843-2 MSD	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3520C	

Analysis Batch: 554828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-2	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8270C	553243
280-153843-3	GW2021-CLUBHOUSE-INFLOW-D	Total/NA	Water	8270C	553243
MB 280-553243/1-A	Method Blank	Total/NA	Water	8270C	553243
LCS 280-553243/2-A	Lab Control Sample	Total/NA	Water	8270C	553243
280-153843-2 MS	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8270C	553243
280-153843-2 MSD	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8270C	553243

LCMS

Prep Batch: 552841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-2 - DL	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3535	
280-153843-2	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3535	
280-153843-3 - DL	GW2021-CLUBHOUSE-INFLOW-D	Total/NA	Water	3535	
280-153843-3	GW2021-CLUBHOUSE-INFLOW-D	Total/NA	Water	3535	
MB 280-552841/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-552841/2-A	Lab Control Sample	Total/NA	Water	3535	
280-153843-2 MS - DL	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3535	
280-153843-2 MS	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3535	
280-153843-2 MSD - DL	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3535	
280-153843-2 MSD	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	3535	

Analysis Batch: 553348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-2	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8321A	552841
280-153843-3	GW2021-CLUBHOUSE-INFLOW-D	Total/NA	Water	8321A	552841
MB 280-552841/1-A	Method Blank	Total/NA	Water	8321A	552841
LCS 280-552841/2-A	Lab Control Sample	Total/NA	Water	8321A	552841
280-153843-2 MS	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8321A	552841
280-153843-2 MSD	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8321A	552841

Analysis Batch: 553552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153843-2 - DL	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8321A	552841
280-153843-3 - DL	GW2021-CLUBHOUSE-INFLOW-D	Total/NA	Water	8321A	552841
280-153843-2 MS - DL	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8321A	552841
280-153843-2 MSD - DL	GW2021-CLUBHOUSE-INFLOW	Total/NA	Water	8321A	552841

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Client Sample ID: GW2021-CLUBHOUSE-INFLOW

Lab Sample ID: 280-153843-2

Date Collected: 10/05/21 12:00

Matrix: Water

Date Received: 10/07/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1046.3 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	554828	10/25/21 13:00	SP	TAL DEN
Total/NA	Prep	3535			1039.8 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 17:56	AGCM	TAL DEN
Total/NA	Prep	3535	DL		1039.8 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	2			553552	10/14/21 12:24	AGCM	TAL DEN

Client Sample ID: GW2021-CLUBHOUSE-INFLOW-D

Lab Sample ID: 280-153843-3

Date Collected: 10/05/21 12:00

Matrix: Water

Date Received: 10/07/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1048.1 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	554828	10/25/21 14:19	SP	TAL DEN
Total/NA	Prep	3535			1051.2 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 18:33	AGCM	TAL DEN
Total/NA	Prep	3535	DL		1051.2 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	2			553552	10/14/21 13:00	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-552841/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			1000 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 17:20	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-553243/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1			554828	10/25/21 11:42	SP	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-552841/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			1000 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 17:32	AGCM	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-553243/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1			554828	10/25/21 12:08	SP	TAL DEN

Client Sample ID: GW2021-CLUBHOUSE-INFLOW

Lab Sample ID: 280-153843-2 MS

Date Collected: 10/05/21 12:00

Matrix: Water

Date Received: 10/07/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050.7 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	554828	10/25/21 13:27	SP	TAL DEN
Total/NA	Prep	3535			1033.5 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 18:08	AGCM	TAL DEN
Total/NA	Prep	3535	DL		1033.5 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	2			553552	10/14/21 12:36	AGCM	TAL DEN

Client Sample ID: GW2021-CLUBHOUSE-INFLOW

Lab Sample ID: 280-153843-2 MSD

Date Collected: 10/05/21 12:00

Matrix: Water

Date Received: 10/07/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1044.6 mL	1 mL	553243	10/12/21 16:10	EJL	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	554828	10/25/21 13:53	SP	TAL DEN
Total/NA	Prep	3535			1040.8 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A		1			553348	10/12/21 18:20	AGCM	TAL DEN
Total/NA	Prep	3535	DL		1040.8 mL	5 mL	552841	10/08/21 17:59	DCL	TAL DEN
Total/NA	Analysis	8321A	DL	2			553552	10/14/21 12:48	AGCM	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Clubhouse Well Sampling 2021

Job ID: 280-153843-2

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999615430	08-31-22

- 1
- 2
- 3
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- 14
- 15

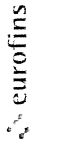
Chain of Custody Record



Cooler 1

Client Information Client Contact: Sharon Nordstrom Company: The Chemours Company FC, LLC Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road City: Newark State, Zip: DE, 19713 Phone: 302-781-5936(Tel) Email: sharon.nordstrom@aecom.com Project Name: BAR-Clubhouse Well Sampling 2021 Site: Barksdale, WI		Lab PM: Johnston, Michelle A E-Mail: Michelle.Johnston@Eurofins.com PWSID: Analysis Requested		Carrier Tracking No(s): 5293 4336 4050 State of Origin: WI COC No: 280-112629-26119.2 Page: 1 of 1 Job #: <i>J+M</i>	
Due Date Requested: TAT Requested (days): 15 business day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: LBIO-67048 / 77201000-WH06-507419 WO #: Project #: 28003388 SSO#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Total Number of Containers 4 Special Instructions/Note: 8270C DNx 8231A Explosives Dupont List+DNT Isomers+TNx 4 <i>xy in cooler 1</i>	
Sample Identification GW2021-PZ16-POT-INFLOW Matrix (W=water, S=soil, O=water/oil, BT=Tissue, A=Air) Sample Type (C=Comp, G=grab) 6		Sample Date 10/5/21 Sample Time 1050 Preservation Code: Water		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8270C DNx 8231A Explosives Dupont List+DNT Isomers+TNx	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Deliverable Requested: I, II, III, IV, V, Other (specify)		Relinquished by: <i>[Signature]</i> Relinquished by: Date/Time: 10/6/21 1200		Received by: Date/Time: 10/07/2021 1055 Company: ETA DEH	
Relinquished by: <i>[Signature]</i> Relinquished by: Date/Time: _____		Relinquished by: Date/Time: _____		Relinquished by: Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>4.4, 4.6, 4.8 CF+1.0 1K+11</i>	

Chain of Custody Record



Client Information		Lab PM:		Carrier Tracking No(s)		COC No	
Client Contact: Sharon Nordstrom		Johnston, Michelle A		5213 4338 4050		280-112629-26119.1	
Company: The Chemours Company FC, LLC		E-Mail: Michelle.Johnston@Eurofins.com		State of Origin: WI		Page: 2 of 4	
Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road		PWSID:		Job #:		Job #:	
City: Newark		Due Date Requested:		Analysis Requested		Preservation Codes:	
State, Zip: DE, 19713		TAT Requested (days): 15 business day		8270C DNx		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 302-781-5936(Tel)		Compliance Project: A Yes ^ No		Perform MS/MSD (Yes or No)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Email: sharon.nordstrom@aecom.com		PO #: LBIO-67048 / 77201000-WH06-507419		Field Filtered Sample (Yes or No)		Total Number of containers	
Project Name: BAR-Clubhouse Well Sampling 2021		WO #: [blank]		8270C DNx		Special Instructions/Note:	
Site: Barksdale, WI		Project #: 28003388		821A Explosives Dupont List+DNT Isomers+TNX		Please log each COC in separate logins. X4 in cooler 2 X4 in cooler 2 X2 in cooler 1, X2 in cooler 3 Field Duplicate X4 in cooler 3	
SSOW#:		Sample Date		Field Filtered Sample (Yes or No)			
Sample Identification		Sample Time		Preservation Code			
GW2021-CLUBHOUSE-INFLOW		6/5/21 1200		Water			
GW2021-CLUBHOUSE-INFLOW-MS		6/5/21 1200		Water			
GW2021-CLUBHOUSE-INFLOW-MSD		6/5/21 1200		Water			
GW2021-CLUBHOUSE-INFLOW-D		6/5/21 1200		Water			
Sample Matrix (Water, Seawater, Onwastefli, BT-Tissue, AVAL)		Sample Type (C=Comp, G=grab)		Preservation Code			
		G		Water			
		G		Water			
		G		Water			
		G		Water			
<p>Possible Hazard Identification</p> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)							
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
<p>Special Instructions/QC Requirements:</p> Method of Shipment: _____							
Relinquished by: Desmont N. Nelson		Date/Time: 10/5/21 12:00		Received by: [Signature]		Date/Time: 10/07/2021 10:55	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: ^ Yes ^ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.4, 4.6, 4.8 CF + 1.0 RB # 11		Company: AECOM	
						Company: STB DEN	
						Company: Company	
						Company: Company	



Chain of Custody Record

Cooler 2



Client Information Client Contact: Sharon Nordstrom Company: The Chemours Company FC, LLC Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road City: Newark State, Zip: DE, 19713 Phone: 302-781-5936(Tel) Email: sharon.nordstrom@aecom.com Project Name: BAR-Clubhouse Well Sampling 2021 Site: Barksdale, WI		Sampler: <i>Desmond Nelson</i> Lab PIV: Johnston, Michelle A Phone: 715 533 0313 E-Mail: Michelle.Johnston@Eurofins.com Carrier Tracking No(s): <i>5293 4060</i> State of Origin: <i>WI</i>		COC No: 280-112629-26119.1 Page: <i>3 of 4</i> Job #: <i>0 + M</i>							
Due Date Requested: TAT Requested (days): 15 business day Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: LBIO-67048 / 77201000-WH06-507419 WO #: Project #: 28003388 SSOW#:		Analysis Requested									
Preservation Codes: A - HCL B - NHOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)									
Sample Identification GW2021-CLUBHOUSE-INFLOW GW2021-CLUBHOUSE-INFLOW-MS GW2021-CLUBHOUSE-INFLOW-MSD GW2021-CLUBHOUSE-INFLOW-D		Sample Date 6/15/21 10/15/21 10/15/21 10/15/21	Sample Time 1200 1200 1200 1200	Sample Type (C=Comp, G=grab) G G G G	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air) Water Water Water Water	Field Filtered Sample (Yes or No) N Y Y Y Y	Perform MS/MSD (Yes or No) N Y X X X X	8270C DNX N N	8321A Explosives DuPont List+DNT Isomers+TNX N N	Total Number of containers X	Special Instructions/Note: Please log each COC in separate logins. <i>X4 in cooler 2</i> Do not log -MS or -MSD in the QC IDs. <i>X4 in cooler 2</i> <i>X2 in cooler 1, X2 in cooler 3</i> Field Duplicate <i>X4 in cooler 3</i>
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:									
Empty Kit Relinquished by: <i>Desmond Nelson</i> Relinquished by: <i>Desmond Nelson</i> Relinquished by:		Method of Shipment Date/Time: 10/15/21 12:00 Date/Time:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Received by: <i>AKC</i> Received by: Received by: Cooler Temperature(s) °C and Other Remarks:									



Chain of Custody Record

Client Information		Lab PM: Johnston, Michelle A		Carrier Tracking No(s) 5293 4334 4071		COC No: 280-112629-26119.1						
Client Contact: Sharon Nordstrom		E-Mail: Michelle.Johnston@Eurofins.com		State of Origin: WI		Page: 4 of 4						
Company: The Chemours Company FC, LLC		PWSID:		Analysis Requested		Job #: OTM						
Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road		Due Date Requested:		8270C DNK		Total Number of Containers						
City: Newark		TAT Requested (days): 15 business day		Perform MS/MSD (Yes or No)		Preservation Codes:						
State, Zip: DE, 19713		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Field Filtered Sample (Yes or No)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Other:						
Phone: 302-781-5936(Tel)		PO #: LBIO-67048 / 77201000-WH06-507419		8270C DNK		Special Instructions/Note:						
Email: sharon.nordstrom@aecom.com		WO #:		8270C DNK		Please log each COC in separate logs. X4 in cooler 2 Do not log -MS or -MSD in the QC IDs. X4 in cooler 2 X2 in cooler 1, X2 in cooler 3 Field Duplicate X4 in cooler 3						
Project Name: BAR-Clubhouse Well Sampling 2021		Project #: 28003388		8270C DNK								
Site: Barksdale, WI		SSOW#:		8270C DNK								
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Newater, Solid, Wastewater, BT-Tissue, A=All)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C DNK	8270C DNK	Analysis Requested	Carrier Tracking No(s)	COC No:
GW2021-CLUBHOUSE-INFLOW	6/15/21	1200	G	Water		W	Y	X	X			280-112629-26119.1
GW2021-CLUBHOUSE-INFLOW-MS	10/15/21	1200	G	Water		W	Y	X	X			
GW2021-CLUBHOUSE-INFLOW-MSD	10/15/21	1200	G	Water		W	Y	X	X			
GW2021-CLUBHOUSE-INFLOW-D	10/15/21	1200	G	Water		W	Y	X	X			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological											Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)											Special Instructions/QC Requirements:	
Empty Kit Relinquished by: <i>Sharon Nordstrom</i>											Method of Shipment:	
Relinquished by: <i>Desmond N. Nelson</i>											Received by: <i>Sharon Nordstrom</i>	
Relinquished by: <i>Desmond N. Nelson</i>											Date/Time: 10/15/21 12:00	
Relinquished by:											Date/Time:	
Relinquished by:											Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No											Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 280-153843-2

Login Number: 153843

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Johnston, Michelle A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-155129-1
Client Project/Site: BAR-Sediment Sampling 2021

For:

The Chemours Company FC, LLC
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom



Authorized for release by:
11/24/2021 8:20:50 AM

Michelle Johnston, Project Manager II
(303)736-0110

Michelle.Johnston@Eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^c	CCV Recovery is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Reported value was between the limit of detection and the limit of quantitation.
X	Surrogate recovery exceeds control limits

LCMS

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
F1	MS and/or MSD recovery exceeds control limits.
J	Reported value was between the limit of detection and the limit of quantitation.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
♠	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Job ID: 280-155129-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: The Chemours Company FC, LLC

Project: BAR-Sediment Sampling 2021

Report Number: 280-155129-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The LOD and LOQ for soil samples have been dry weight adjusted.

Sample Arrival and Receipt

The samples were received on 11/4/2021 11:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Receipt Exceptions

The containers received for the following sample did not match the information listed on the Chain-of-Custody (COC): SW2021-SED-F002 (280-155129-1). The COC says there are supposed to be 3 containers, but only 2 were received.

The containers received for the following sample did not match the information listed on the Chain-of-Custody (COC): SW2021-SED-F000 (280-155129-10). The COC says there are supposed to be 2 containers, but 3 were received.

No other anomalies were observed during sample receipt.

Semivolatiles

Samples SW2021-SED-F002 (280-155129-1), SW2021-SED-F003 (280-155129-2), SW2021-SED-F004 (280-155129-3), SW2021-SED-F005 (280-155129-4), SW2021-SED-F006 (280-155129-5), SW2021-SED-F007 (280-155129-6), SW2021-SED-F007-D (280-155129-7), SW2021-SED-F008 (280-155129-8), SW2021-SED-F009 (280-155129-9) and SW2021-SED-F000 (280-155129-10) were analyzed for semivolatile organic compounds (GC-MS) in accordance with SW846 Method 8270C. The samples were prepared on 11/05/2021 and analyzed on 11/20/2021.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples and LCS contained an allowable number of surrogate compounds outside limits: SW2021-SED-F004 (280-155129-3), SW2021-SED-F005 (280-155129-4), SW2021-SED-F006 (280-155129-5), SW2021-SED-F007 (280-155129-6), SW2021-SED-F007-D (280-155129-7), SW2021-SED-F008 (280-155129-8), SW2021-SED-F009 (280-155129-9), SW2021-SED-F000 (280-155129-10), (LCS 280-556304/2-A), (280-155129-A-1-B MS) and (280-155129-A-1-C MSD). These results have been reported and qualified.

1,2-Dimethyl-4,5-Dinitrobenzene and 1,3-Dimethyl-2,4-Dinitrobenzene failed the recovery criteria high for LCS 280-556304/2-A. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The MS/MSD associated with prep batch 280-556304 was performed on sample SW2021-SED-F002 (280-155129-1). The MS/MSD exhibited spike compound recoveries outside the QC control limits for 1,2-Dimethyl-4,5-Dinitrobenzene, 1,3-Dimethyl-2,4-Dinitrobenzene and 1,4-Dimethyl-2,3-Dinitrobenzene. The acceptable LCS/LCSD analysis data indicated that the analytical system was operating within control; therefore, corrective action was deemed unnecessary.

The CCV is outside of laboratory 1 year SOP expiration: SW2021-SED-F002 (280-155129-1), SW2021-SED-F003 (280-155129-2),

Case Narrative

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Job ID: 280-155129-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

SW2021-SED-F004 (280-155129-3), SW2021-SED-F005 (280-155129-4), SW2021-SED-F006 (280-155129-5), SW2021-SED-F007 (280-155129-6), SW2021-SED-F007-D (280-155129-7), SW2021-SED-F008 (280-155129-8), SW2021-SED-F009 (280-155129-9), SW2021-SED-F000 (280-155129-10), (CCV 280-558211/4), (LCS 280-556304/2-A), (280-155129-A-1-B MS) and (280-155129-A-1-C MSD).

The continuing calibration verification (CCV) associated with batch 280-558211 recovered above the upper control limit for 1,2-Dimethyl-3,4-Dinitrobenzene, 1,2-Dimethyl-3,5-Dinitrobenzene, 1,2-Dimethyl-4,5-Dinitrobenzene, 1,2-Dimethyl-3,6-Dinitrobenzene, 1,3-Dimethyl-2,4-Dinitrobenzene, 1,3-Dimethyl-2,5-Dinitrobenzene and 1,4-Dimethyl-2,3-Dinitrobenzene 1,4-Dimethyl-2,6-Dinitrobenzene, 1,5-Dimethyl-2,3-Dinitrobenzene and 1,5-Dimethyl-2,4-Dinitrobenzene. The samples associated with this CCV were either non-detects for the affected analytes or had detections below the LOQ; therefore, the data have been reported.

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

Explosives

Samples SW2021-SED-F002 (280-155129-1), SW2021-SED-F003 (280-155129-2), SW2021-SED-F004 (280-155129-3), SW2021-SED-F005 (280-155129-4), SW2021-SED-F006 (280-155129-5), SW2021-SED-F007 (280-155129-6), SW2021-SED-F007-D (280-155129-7), SW2021-SED-F008 (280-155129-8), SW2021-SED-F009 (280-155129-9) and SW2021-SED-F000 (280-155129-10) were analyzed for Explosives (dry weight) in accordance with SW846 8321A. The samples were leached on 11/09/2021, prepared on 11/11/2021 and analyzed on 11/18/2021.

The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: SW2021-SED-F002 (280-155129-1), SW2021-SED-F003 (280-155129-2), SW2021-SED-F004 (280-155129-3), SW2021-SED-F005 (280-155129-4), SW2021-SED-F006 (280-155129-5), SW2021-SED-F007 (280-155129-6), SW2021-SED-F007-D (280-155129-7), SW2021-SED-F008 (280-155129-8), SW2021-SED-F009 (280-155129-9), SW2021-SED-F000 (280-155129-10), (280-155129-B-4 MS) and (280-155129-B-4 MSD). This material was removed and not extracted.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high constituent concentrations, sample SW2021-SED-F002 (280-155129-1) had to be analyzed at a dilution. The surrogate recoveries were calculated from a diluted sample. The LOQ and LOD have been adjusted relative to the dilution required.

The 3,4-Dinitrotoluene, 2,3-Dinitrotoluene, 3,5-Dinitrotoluene, 2,4,6-Trinitro-3-xylene and 2,5-Dinitrotoluene spiking solution was omitted during the extraction process for the LCS, LCSD, MS and MSD associated with prep batch 280-557109 due to the unavailability of 2,4,6-Trinitro-3-xylene; therefore, percent recoveries are unavailable.

The MS/MSD associated with prep batch 280-557109 was performed on sample SW2021-SED-F005 (280-155129-4). The MS/MSD exhibited spike compound recoveries outside the QC control limits for 2,4-Dinitrotoluene. The acceptable LCS/LCSD analysis data indicated that the analytical system was operating within control; therefore, corrective action was deemed unnecessary.

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

Total Organic Carbon

Samples SW2021-SED-F008 (280-155129-8) and SW2021-SED-F000 (280-155129-10) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 11/08/2021.

The MS/MSD associated with analytical batch 280-556638 was performed on sample SW2021-SED-F000 (280-155129-10). The MS/MSD exhibited a spike compound recovery and RPD data outside the QC control limits for Total Organic Carbon. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action was deemed unnecessary.

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

Percent Moisture

Samples SW2021-SED-F002 (280-155129-1), SW2021-SED-F003 (280-155129-2), SW2021-SED-F004 (280-155129-3), SW2021-SED-F005 (280-155129-4), SW2021-SED-F006 (280-155129-5), SW2021-SED-F007 (280-155129-6), SW2021-SED-F007-D (280-155129-7), SW2021-SED-F008 (280-155129-8), SW2021-SED-F009 (280-155129-9) and SW2021-SED-F000 (280-155129-10) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 11/09/2021.

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

Detection Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F002

Lab Sample ID: 280-155129-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,3-Dimethyl-2,5-Dinitrobenzene	20	J ^c	190	18	ug/Kg	1	✳	8270C	Total/NA
1,5-Dimethyl-2,4-Dinitrobenzene	37	J ^c	190	26	ug/Kg	1	✳	8270C	Total/NA
1,3-Dinitrobenzene	22	J	110	7.8	ug/Kg	1	✳	8321A	Total/NA
2,4,6-Trinitrotoluene	680		110	5.5	ug/Kg	1	✳	8321A	Total/NA
2,6-Dinitrotoluene	210		110	22	ug/Kg	1	✳	8321A	Total/NA
2-Amino-4,6-dinitrotoluene	64	J	110	13	ug/Kg	1	✳	8321A	Total/NA
2-Nitrotoluene	160		110	6.3	ug/Kg	1	✳	8321A	Total/NA
3,4-Dinitrotoluene	NC		110	11	ug/Kg	1	✳	8321A	Total/NA
3-Nitrotoluene	26	J	110	14	ug/Kg	1	✳	8321A	Total/NA
4-Amino-2,6-dinitrotoluene	62	J	110	5.6	ug/Kg	1	✳	8321A	Total/NA
4-Nitrotoluene	140		110	12	ug/Kg	1	✳	8321A	Total/NA
2,4-Dinitrotoluene - DL	1500		220	18	ug/Kg	2	✳	8321A	Total/NA

Client Sample ID: SW2021-SED-F003

Lab Sample ID: 280-155129-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	110	J	120	6.2	ug/Kg	1	✳	8321A	Total/NA
2,4-Dinitrotoluene	200		120	10	ug/Kg	1	✳	8321A	Total/NA
2,6-Dinitrotoluene	27	J	120	25	ug/Kg	1	✳	8321A	Total/NA
2-Amino-4,6-dinitrotoluene	26	J	120	15	ug/Kg	1	✳	8321A	Total/NA
2-Nitrotoluene	7.6	J	120	7.1	ug/Kg	1	✳	8321A	Total/NA
3,4-Dinitrotoluene	NC		120	12	ug/Kg	1	✳	8321A	Total/NA
4-Amino-2,6-dinitrotoluene	26	J	120	6.3	ug/Kg	1	✳	8321A	Total/NA

Client Sample ID: SW2021-SED-F004

Lab Sample ID: 280-155129-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,5-Dimethyl-2,4-Dinitrobenzene	33	J ^c	220	30	ug/Kg	1	✳	8270C	Total/NA
1,3,5-Trinitrobenzene	17	J	130	17	ug/Kg	1	✳	8321A	Total/NA
2,4,6-Trinitrotoluene	320		130	6.6	ug/Kg	1	✳	8321A	Total/NA
2,4-Dinitrotoluene	540		130	11	ug/Kg	1	✳	8321A	Total/NA
2,6-Dinitrotoluene	50	J	130	26	ug/Kg	1	✳	8321A	Total/NA
2-Amino-4,6-dinitrotoluene	43	J	130	16	ug/Kg	1	✳	8321A	Total/NA
2-Nitrotoluene	10	J	130	7.6	ug/Kg	1	✳	8321A	Total/NA
4-Amino-2,6-dinitrotoluene	50	J	130	6.7	ug/Kg	1	✳	8321A	Total/NA
4-Nitrotoluene	19	J	130	15	ug/Kg	1	✳	8321A	Total/NA

Client Sample ID: SW2021-SED-F005

Lab Sample ID: 280-155129-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	24	J	120	6.0	ug/Kg	1	✳	8321A	Total/NA
2,4-Dinitrotoluene	650	F1	120	9.8	ug/Kg	1	✳	8321A	Total/NA
3,4-Dinitrotoluene	NC		120	12	ug/Kg	1	✳	8321A	Total/NA

Client Sample ID: SW2021-SED-F006

Lab Sample ID: 280-155129-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	12	J	120	6.0	ug/Kg	1	✳	8321A	Total/NA
2,4-Dinitrotoluene	51	J	120	9.7	ug/Kg	1	✳	8321A	Total/NA
3,4-Dinitrotoluene	NC		120	12	ug/Kg	1	✳	8321A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F007

Lab Sample ID: 280-155129-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	28	J	110	5.7	ug/Kg	1	☒	8321A	Total/NA
2,4-Dinitrotoluene	160		110	9.3	ug/Kg	1	☒	8321A	Total/NA
Nitroglycerin	13	J	110	12	ug/Kg	1	☒	8321A	Total/NA

Client Sample ID: SW2021-SED-F007-D

Lab Sample ID: 280-155129-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	15	J	110	5.6	ug/Kg	1	☒	8321A	Total/NA
2,4-Dinitrotoluene	39	J	110	9.1	ug/Kg	1	☒	8321A	Total/NA

Client Sample ID: SW2021-SED-F008

Lab Sample ID: 280-155129-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,5-Dimethyl-2,4-Dinitrobenzene	31	J ^c	190	26	ug/Kg	1	☒	8270C	Total/NA
2,4,6-Trinitrotoluene	110		110	5.6	ug/Kg	1	☒	8321A	Total/NA
2,4-Dinitrotoluene	110		110	9.2	ug/Kg	1	☒	8321A	Total/NA
3,4-Dinitrotoluene	NC		110	11	ug/Kg	1	☒	8321A	Total/NA
4-Amino-2,6-dinitrotoluene	10	J	110	5.7	ug/Kg	1	☒	8321A	Total/NA
Total Organic Carbon	10.8		4.0	0.90	g/Kg	1		9060A	Total/NA

Client Sample ID: SW2021-SED-F009

Lab Sample ID: 280-155129-9

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	12	J	110	5.6	ug/Kg	1	☒	8321A	Total/NA
2,4-Dinitrotoluene	22	J	110	9.1	ug/Kg	1	☒	8321A	Total/NA

Client Sample ID: SW2021-SED-F000

Lab Sample ID: 280-155129-10

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trinitrotoluene	1300		120	6.2	ug/Kg	1	☒	8321A	Total/NA
2,4-Dinitrotoluene	410		120	10	ug/Kg	1	☒	8321A	Total/NA
2,6-Dinitrotoluene	41	J	120	24	ug/Kg	1	☒	8321A	Total/NA
2-Amino-4,6-dinitrotoluene	70	J	120	15	ug/Kg	1	☒	8321A	Total/NA
2-Nitrotoluene	10	J	120	7.0	ug/Kg	1	☒	8321A	Total/NA
4-Amino-2,6-dinitrotoluene	48	J	120	6.2	ug/Kg	1	☒	8321A	Total/NA
Total Organic Carbon	7.7	F1 F2	4.0	0.90	g/Kg	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8321A	Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)	SW846	TAL DEN
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN
D 2216-90	ASTM D 2216-90	ASTM	TAL DEN
3550C	Ultrasonic Extraction	SW846	TAL DEN
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-155129-1	SW2021-SED-F002	Solid	11/01/21 15:00	11/04/21 11:10
280-155129-2	SW2021-SED-F003	Solid	11/01/21 15:20	11/04/21 11:10
280-155129-3	SW2021-SED-F004	Solid	11/01/21 15:40	11/04/21 11:10
280-155129-4	SW2021-SED-F005	Solid	11/01/21 16:00	11/04/21 11:10
280-155129-5	SW2021-SED-F006	Solid	11/01/21 16:15	11/04/21 11:10
280-155129-6	SW2021-SED-F007	Solid	11/02/21 13:10	11/04/21 11:10
280-155129-7	SW2021-SED-F007-D	Solid	11/02/21 13:10	11/04/21 11:10
280-155129-8	SW2021-SED-F008	Solid	11/02/21 12:55	11/04/21 11:10
280-155129-9	SW2021-SED-F009	Solid	11/02/21 12:40	11/04/21 11:10
280-155129-10	SW2021-SED-F000	Solid	11/02/21 13:35	11/04/21 11:10

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Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F002

Lab Sample ID: 280-155129-1

Date Collected: 11/01/21 15:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 88.4

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<31	^c	190	31	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,2-Dimethyl-3,5-Dinitrobenzene	<26	^c	190	26	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,2-Dimethyl-3,6-Dinitrobenzene	<28	^c	190	28	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,2-Dimethyl-4,5-Dinitrobenzene	<26	^c * F1	190	26	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,3-Dimethyl-2,4-Dinitrobenzene	<19	^c * F1	190	19	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,3-Dimethyl-2,5-Dinitrobenzene	20	J ^c	190	18	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,4-Dimethyl-2,3-Dinitrobenzene	<30	^c F1	190	30	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,4-Dimethyl-2,5-Dinitrobenzene	<14		190	14	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,4-Dimethyl-2,6-Dinitrobenzene	<20	^c	190	20	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,5-Dimethyl-2,3-Dinitrobenzene	<30	^c	190	30	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1
1,5-Dimethyl-2,4-Dinitrobenzene	37	J ^c	190	26	ug/Kg	✳	11/05/21 13:03	11/20/21 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	25		24 - 135	11/05/21 13:03	11/20/21 16:25	1
2-Fluorobiphenyl	71		33 - 135	11/05/21 13:03	11/20/21 16:25	1
2-Fluorophenol	53		39 - 135	11/05/21 13:03	11/20/21 16:25	1
Nitrobenzene-d5	69		32 - 135	11/05/21 13:03	11/20/21 16:25	1
Phenol-d5	56		39 - 135	11/05/21 13:03	11/20/21 16:25	1
Terphenyl-d14	89		30 - 135	11/05/21 13:03	11/20/21 16:25	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<14		110	14	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
1,3-Dinitrobenzene	22	J	110	7.8	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
2,4,6-Trinitro-3-xylene	<4.5		110	4.5	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
2,4,6-Trinitrotoluene	680		110	5.5	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
2,6-Dinitrotoluene	210		110	22	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
2-Amino-4,6-dinitrotoluene	64	J	110	13	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
2-Nitrotoluene	160		110	6.3	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
3,4-Dinitrotoluene	NC		110	11	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
3,5-Dinitrotoluene	<23		110	23	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
3-Nitrotoluene	26	J	110	14	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
4-Amino-2,6-dinitrotoluene	62	J	110	5.6	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
4-Nitrotoluene	140		110	12	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
HMX	<16		110	16	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
Nitrobenzene	<12		110	12	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
Nitroglycerin	<12		110	12	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
PETN	<5.7		110	5.7	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
RDX	<4.8		110	4.8	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1
Tetryl	<8.4		110	8.4	ug/Kg	✳	11/11/21 14:49	11/18/21 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	114		68 - 140	11/11/21 14:49	11/18/21 13:08	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	1500		220	18	ug/Kg	✳	11/11/21 14:49	11/18/21 16:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	98	D	68 - 140	11/11/21 14:49	11/18/21 16:00	2

Eurofins TestAmerica, Denver

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F002

Lab Sample ID: 280-155129-1

Date Collected: 11/01/21 15:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 88.4

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.1	%			11/09/21 16:10	1

- 1
- 2
- 3
- 4
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- 13
- 14
- 15

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F003

Lab Sample ID: 280-155129-2

Date Collected: 11/01/21 15:20

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 77.3

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<36	^c	210	36	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,2-Dimethyl-3,5-Dinitrobenzene	<29	^c	210	29	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,2-Dimethyl-3,6-Dinitrobenzene	<32	^c	210	32	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,2-Dimethyl-4,5-Dinitrobenzene	<29	^c *	210	29	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,3-Dimethyl-2,4-Dinitrobenzene	<22	^c *	210	22	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,3-Dimethyl-2,5-Dinitrobenzene	<20	^c	210	20	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,4-Dimethyl-2,3-Dinitrobenzene	<34	^c	210	34	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,4-Dimethyl-2,5-Dinitrobenzene	<16		210	16	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,4-Dimethyl-2,6-Dinitrobenzene	<23	^c	210	23	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,5-Dimethyl-2,3-Dinitrobenzene	<34	^c	210	34	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1
1,5-Dimethyl-2,4-Dinitrobenzene	<29	^c	210	29	ug/Kg	☼	11/05/21 13:03	11/20/21 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		24 - 135	11/05/21 13:03	11/20/21 17:43	1
2-Fluorobiphenyl	70		33 - 135	11/05/21 13:03	11/20/21 17:43	1
2-Fluorophenol	57		39 - 135	11/05/21 13:03	11/20/21 17:43	1
Nitrobenzene-d5	73		32 - 135	11/05/21 13:03	11/20/21 17:43	1
Phenol-d5	77		39 - 135	11/05/21 13:03	11/20/21 17:43	1
Terphenyl-d14	84		30 - 135	11/05/21 13:03	11/20/21 17:43	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<16		120	16	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
1,3-Dinitrobenzene	<8.8		120	8.8	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
2,4,6-Trinitro-3-xylene	<5.1		120	5.1	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
2,4,6-Trinitrotoluene	110	J	120	6.2	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
2,4-Dinitrotoluene	200		120	10	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
2,6-Dinitrotoluene	27	J	120	25	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
2-Amino-4,6-dinitrotoluene	26	J	120	15	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
2-Nitrotoluene	7.6	J	120	7.1	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
3,4-Dinitrotoluene	NC		120	12	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
3,5-Dinitrotoluene	<26		120	26	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
3-Nitrotoluene	<16		120	16	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
4-Amino-2,6-dinitrotoluene	26	J	120	6.3	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
4-Nitrotoluene	<14		120	14	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
HMX	<19		120	19	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
Nitrobenzene	<13		120	13	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
Nitroglycerin	<13		120	13	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
PETN	<6.4		120	6.4	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
RDX	<5.4		120	5.4	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1
Tetryl	<9.4		120	9.4	ug/Kg	☼	11/11/21 14:49	11/18/21 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	102		68 - 140	11/11/21 14:49	11/18/21 13:20	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.7		0.1	0.1	%			11/09/21 16:10	1

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F004

Lab Sample ID: 280-155129-3

Date Collected: 11/01/21 15:40

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 74.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<37	^c	220	37	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,2-Dimethyl-3,5-Dinitrobenzene	<30	^c	220	30	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,2-Dimethyl-3,6-Dinitrobenzene	<33	^c	220	33	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,2-Dimethyl-4,5-Dinitrobenzene	<30	^c *	220	30	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,3-Dimethyl-2,4-Dinitrobenzene	<22	^c *	220	22	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,3-Dimethyl-2,5-Dinitrobenzene	<21	^c	220	21	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,4-Dimethyl-2,3-Dinitrobenzene	<36	^c	220	36	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,4-Dimethyl-2,5-Dinitrobenzene	<17		220	17	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,4-Dimethyl-2,6-Dinitrobenzene	<24	^c	220	24	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,5-Dimethyl-2,3-Dinitrobenzene	<36	^c	220	36	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1
1,5-Dimethyl-2,4-Dinitrobenzene	33	J ^c	220	30	ug/Kg	✳	11/05/21 13:03	11/20/21 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	4	X	24 - 135	11/05/21 13:03	11/20/21 18:09	1
2-Fluorobiphenyl	70		33 - 135	11/05/21 13:03	11/20/21 18:09	1
2-Fluorophenol	52		39 - 135	11/05/21 13:03	11/20/21 18:09	1
Nitrobenzene-d5	69		32 - 135	11/05/21 13:03	11/20/21 18:09	1
Phenol-d5	52		39 - 135	11/05/21 13:03	11/20/21 18:09	1
Terphenyl-d14	80		30 - 135	11/05/21 13:03	11/20/21 18:09	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	17	J	130	17	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
1,3-Dinitrobenzene	<9.4		130	9.4	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
2,4,6-Trinitro-3-xylene	<5.4		130	5.4	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
2,4,6-Trinitrotoluene	320		130	6.6	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
2,4-Dinitrotoluene	540		130	11	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
2,6-Dinitrotoluene	50	J	130	26	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
2-Amino-4,6-dinitrotoluene	43	J	130	16	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
2-Nitrotoluene	10	J	130	7.6	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
3,4-Dinitrotoluene	<13		130	13	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
3,5-Dinitrotoluene	<28		130	28	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
3-Nitrotoluene	<17		130	17	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
4-Amino-2,6-dinitrotoluene	50	J	130	6.7	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
4-Nitrotoluene	19	J	130	15	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
HMX	<20		130	20	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
Nitrobenzene	<14		130	14	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
Nitroglycerin	<14		130	14	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
PETN	<6.8		130	6.8	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
RDX	<5.7		130	5.7	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1
Tetryl	<10		130	10	ug/Kg	✳	11/11/21 14:49	11/18/21 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	114		68 - 140	11/11/21 14:49	11/18/21 13:32	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.9		0.1	0.1	%			11/09/21 16:10	1

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F005

Lab Sample ID: 280-155129-4

Date Collected: 11/01/21 16:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 83.0

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<33	^c	190	33	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,2-Dimethyl-3,5-Dinitrobenzene	<27	^c	190	27	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,2-Dimethyl-3,6-Dinitrobenzene	<29	^c	190	29	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,2-Dimethyl-4,5-Dinitrobenzene	<27	^c *	190	27	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,3-Dimethyl-2,4-Dinitrobenzene	<20	^c *	190	20	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,3-Dimethyl-2,5-Dinitrobenzene	<19	^c	190	19	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,4-Dimethyl-2,3-Dinitrobenzene	<31	^c	190	31	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,4-Dimethyl-2,5-Dinitrobenzene	<15		190	15	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,4-Dimethyl-2,6-Dinitrobenzene	<21	^c	190	21	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,5-Dimethyl-2,3-Dinitrobenzene	<31	^c	190	31	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1
1,5-Dimethyl-2,4-Dinitrobenzene	<27	^c	190	27	ug/Kg	✳	11/05/21 13:03	11/20/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	12	X	24 - 135	11/05/21 13:03	11/20/21 18:36	1
2-Fluorobiphenyl	67		33 - 135	11/05/21 13:03	11/20/21 18:36	1
2-Fluorophenol	61		39 - 135	11/05/21 13:03	11/20/21 18:36	1
Nitrobenzene-d5	79		32 - 135	11/05/21 13:03	11/20/21 18:36	1
Phenol-d5	74		39 - 135	11/05/21 13:03	11/20/21 18:36	1
Terphenyl-d14	86		30 - 135	11/05/21 13:03	11/20/21 18:36	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<15		120	15	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
1,3-Dinitrobenzene	<8.6		120	8.6	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
2,4,6-Trinitro-3-xylene	<4.9		120	4.9	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
2,4,6-Trinitrotoluene	24	J	120	6.0	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
2,4-Dinitrotoluene	650	F1	120	9.8	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
2,6-Dinitrotoluene	<24		120	24	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
2-Amino-4,6-dinitrotoluene	<14		120	14	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
2-Nitrotoluene	<6.9		120	6.9	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
3,4-Dinitrotoluene	NC		120	12	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
3,5-Dinitrotoluene	<25		120	25	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
3-Nitrotoluene	<15		120	15	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
4-Amino-2,6-dinitrotoluene	<6.1		120	6.1	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
4-Nitrotoluene	<13		120	13	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
HMX	<18		120	18	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
Nitrobenzene	<13		120	13	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
Nitroglycerin	<13		120	13	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
PETN	<6.2		120	6.2	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
RDX	<5.2		120	5.2	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1
Tetryl	<9.1		120	9.1	ug/Kg	✳	11/11/21 14:49	11/18/21 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	101		68 - 140	11/11/21 14:49	11/18/21 13:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.0		0.1	0.1	%			11/09/21 16:10	1

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F006

Lab Sample ID: 280-155129-5

Date Collected: 11/01/21 16:15

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 83.3

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<31	^c	180	31	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,2-Dimethyl-3,5-Dinitrobenzene	<25	^c	180	25	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,2-Dimethyl-3,6-Dinitrobenzene	<28	^c	180	28	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,2-Dimethyl-4,5-Dinitrobenzene	<25	^c *	180	25	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,3-Dimethyl-2,4-Dinitrobenzene	<19	^c *	180	19	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,3-Dimethyl-2,5-Dinitrobenzene	<18	^c	180	18	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,4-Dimethyl-2,3-Dinitrobenzene	<30	^c	180	30	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,4-Dimethyl-2,5-Dinitrobenzene	<14		180	14	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,4-Dimethyl-2,6-Dinitrobenzene	<20	^c	180	20	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,5-Dimethyl-2,3-Dinitrobenzene	<30	^c	180	30	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1
1,5-Dimethyl-2,4-Dinitrobenzene	<25	^c	180	25	ug/Kg	☼	11/05/21 13:03	11/20/21 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	4	X	24 - 135	11/05/21 13:03	11/20/21 19:02	1
2-Fluorobiphenyl	66		33 - 135	11/05/21 13:03	11/20/21 19:02	1
2-Fluorophenol	65		39 - 135	11/05/21 13:03	11/20/21 19:02	1
Nitrobenzene-d5	77		32 - 135	11/05/21 13:03	11/20/21 19:02	1
Phenol-d5	40		39 - 135	11/05/21 13:03	11/20/21 19:02	1
Terphenyl-d14	88		30 - 135	11/05/21 13:03	11/20/21 19:02	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<15		120	15	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
1,3-Dinitrobenzene	<8.4		120	8.4	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
2,4,6-Trinitro-3-xylene	<4.9		120	4.9	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
2,4,6-Trinitrotoluene	12	J	120	6.0	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
2,4-Dinitrotoluene	51	J	120	9.7	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
2,6-Dinitrotoluene	<24		120	24	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
2-Amino-4,6-dinitrotoluene	<14		120	14	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
2-Nitrotoluene	<6.8		120	6.8	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
3,4-Dinitrotoluene	NC		120	12	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
3,5-Dinitrotoluene	<25		120	25	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
3-Nitrotoluene	<15		120	15	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
4-Amino-2,6-dinitrotoluene	<6.0		120	6.0	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
4-Nitrotoluene	<13		120	13	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
HMX	<18		120	18	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
Nitrobenzene	<13		120	13	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
Nitroglycerin	<12		120	12	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
PETN	<6.1		120	6.1	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
RDX	<5.1		120	5.1	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1
Tetryl	<9.0		120	9.0	ug/Kg	☼	11/11/21 14:49	11/18/21 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	99		68 - 140	11/11/21 14:49	11/18/21 14:20	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.7		0.1	0.1	%			11/09/21 16:10	1

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F007

Lab Sample ID: 280-155129-6

Date Collected: 11/02/21 13:10

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 87.3

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<31	^c	190	31	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,2-Dimethyl-3,5-Dinitrobenzene	<25	^c	190	25	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,2-Dimethyl-3,6-Dinitrobenzene	<28	^c	190	28	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,2-Dimethyl-4,5-Dinitrobenzene	<25	^c *	190	25	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,3-Dimethyl-2,4-Dinitrobenzene	<19	^c *	190	19	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,3-Dimethyl-2,5-Dinitrobenzene	<18	^c	190	18	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,4-Dimethyl-2,3-Dinitrobenzene	<30	^c	190	30	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,4-Dimethyl-2,5-Dinitrobenzene	<14		190	14	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,4-Dimethyl-2,6-Dinitrobenzene	<20	^c	190	20	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,5-Dimethyl-2,3-Dinitrobenzene	<30	^c	190	30	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1
1,5-Dimethyl-2,4-Dinitrobenzene	<25	^c	190	25	ug/Kg	✱	11/05/21 13:03	11/20/21 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	8	X	24 - 135	11/05/21 13:03	11/20/21 19:28	1
2-Fluorobiphenyl	82		33 - 135	11/05/21 13:03	11/20/21 19:28	1
2-Fluorophenol	68		39 - 135	11/05/21 13:03	11/20/21 19:28	1
Nitrobenzene-d5	93		32 - 135	11/05/21 13:03	11/20/21 19:28	1
Phenol-d5	43		39 - 135	11/05/21 13:03	11/20/21 19:28	1
Terphenyl-d14	86		30 - 135	11/05/21 13:03	11/20/21 19:28	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<14		110	14	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
1,3-Dinitrobenzene	<8.1		110	8.1	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
2,4,6-Trinitro-3-xylene	<4.6		110	4.6	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
2,4,6-Trinitrotoluene	28	J	110	5.7	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
2,4-Dinitrotoluene	160		110	9.3	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
2,6-Dinitrotoluene	<23		110	23	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
2-Amino-4,6-dinitrotoluene	<14		110	14	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
2-Nitrotoluene	<6.5		110	6.5	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
3,4-Dinitrotoluene	<11		110	11	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
3,5-Dinitrotoluene	<24		110	24	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
3-Nitrotoluene	<15		110	15	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
4-Amino-2,6-dinitrotoluene	<5.8		110	5.8	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
4-Nitrotoluene	<12		110	12	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
HMX	<17		110	17	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
Nitrobenzene	<12		110	12	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
Nitroglycerin	13	J	110	12	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
PETN	<5.8		110	5.8	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
RDX	<4.9		110	4.9	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1
Tetryl	<8.6		110	8.6	ug/Kg	✱	11/11/21 14:49	11/18/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	105		68 - 140	11/11/21 14:49	11/18/21 14:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		0.1	0.1	%			11/09/21 16:10	1

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F007-D

Lab Sample ID: 280-155129-7

Date Collected: 11/02/21 13:10

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 88.5

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<30	^c	180	30	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,2-Dimethyl-3,5-Dinitrobenzene	<24	^c	180	24	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,2-Dimethyl-3,6-Dinitrobenzene	<26	^c	180	26	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,2-Dimethyl-4,5-Dinitrobenzene	<24	^c *	180	24	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,3-Dimethyl-2,4-Dinitrobenzene	<18	^c *	180	18	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,3-Dimethyl-2,5-Dinitrobenzene	<17	^c	180	17	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,4-Dimethyl-2,3-Dinitrobenzene	<29	^c	180	29	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,4-Dimethyl-2,5-Dinitrobenzene	<14		180	14	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,4-Dimethyl-2,6-Dinitrobenzene	<19	^c	180	19	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,5-Dimethyl-2,3-Dinitrobenzene	<29	^c	180	29	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1
1,5-Dimethyl-2,4-Dinitrobenzene	<24	^c	180	24	ug/Kg	✱	11/05/21 13:03	11/20/21 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	4	X	24 - 135	11/05/21 13:03	11/20/21 19:54	1
2-Fluorobiphenyl	80		33 - 135	11/05/21 13:03	11/20/21 19:54	1
2-Fluorophenol	59		39 - 135	11/05/21 13:03	11/20/21 19:54	1
Nitrobenzene-d5	87		32 - 135	11/05/21 13:03	11/20/21 19:54	1
Phenol-d5	42		39 - 135	11/05/21 13:03	11/20/21 19:54	1
Terphenyl-d14	89		30 - 135	11/05/21 13:03	11/20/21 19:54	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<14		110	14	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
1,3-Dinitrobenzene	<7.9		110	7.9	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
2,4,6-Trinitro-3-xylene	<4.6		110	4.6	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
2,4,6-Trinitrotoluene	15	J	110	5.6	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
2,4-Dinitrotoluene	39	J	110	9.1	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
2,6-Dinitrotoluene	<22		110	22	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
2-Amino-4,6-dinitrotoluene	<13		110	13	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
2-Nitrotoluene	<6.4		110	6.4	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
3,4-Dinitrotoluene	<11		110	11	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
3,5-Dinitrotoluene	<23		110	23	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
3-Nitrotoluene	<14		110	14	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
4-Amino-2,6-dinitrotoluene	<5.7		110	5.7	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
4-Nitrotoluene	<12		110	12	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
HMX	<17		110	17	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
Nitrobenzene	<12		110	12	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
Nitroglycerin	<12		110	12	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
PETN	<5.7		110	5.7	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
RDX	<4.8		110	4.8	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1
Tetryl	<8.5		110	8.5	ug/Kg	✱	11/11/21 14:49	11/18/21 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	101		68 - 140	11/11/21 14:49	11/18/21 15:02	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.1	%			11/09/21 16:10	1

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F008

Lab Sample ID: 280-155129-8

Date Collected: 11/02/21 12:55

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 86.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<31	^c	190	31	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,2-Dimethyl-3,5-Dinitrobenzene	<26	^c	190	26	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,2-Dimethyl-3,6-Dinitrobenzene	<28	^c	190	28	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,2-Dimethyl-4,5-Dinitrobenzene	<26	^c *	190	26	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,3-Dimethyl-2,4-Dinitrobenzene	<19	^c *	190	19	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,3-Dimethyl-2,5-Dinitrobenzene	<18	^c	190	18	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,4-Dimethyl-2,3-Dinitrobenzene	<30	^c	190	30	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,4-Dimethyl-2,5-Dinitrobenzene	<15		190	15	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,4-Dimethyl-2,6-Dinitrobenzene	<20	^c	190	20	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,5-Dimethyl-2,3-Dinitrobenzene	<30	^c	190	30	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1
1,5-Dimethyl-2,4-Dinitrobenzene	31	J ^c	190	26	ug/Kg	☼	11/05/21 13:03	11/20/21 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	4	X	24 - 135	11/05/21 13:03	11/20/21 20:20	1
2-Fluorobiphenyl	76		33 - 135	11/05/21 13:03	11/20/21 20:20	1
2-Fluorophenol	61		39 - 135	11/05/21 13:03	11/20/21 20:20	1
Nitrobenzene-d5	73		32 - 135	11/05/21 13:03	11/20/21 20:20	1
Phenol-d5	80		39 - 135	11/05/21 13:03	11/20/21 20:20	1
Terphenyl-d14	86		30 - 135	11/05/21 13:03	11/20/21 20:20	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<14		110	14	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
1,3-Dinitrobenzene	<8.0		110	8.0	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
2,4,6-Trinitro-3-xylene	<4.6		110	4.6	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
2,4,6-Trinitrotoluene	110		110	5.6	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
2,4-Dinitrotoluene	110		110	9.2	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
2,6-Dinitrotoluene	<22		110	22	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
2-Amino-4,6-dinitrotoluene	<13		110	13	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
2-Nitrotoluene	<6.4		110	6.4	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
3,4-Dinitrotoluene	NC		110	11	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
3,5-Dinitrotoluene	<24		110	24	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
3-Nitrotoluene	<14		110	14	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
4-Amino-2,6-dinitrotoluene	10	J	110	5.7	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
4-Nitrotoluene	<12		110	12	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
HMX	<17		110	17	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
Nitrobenzene	<12		110	12	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
Nitroglycerin	<12		110	12	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
PETN	<5.8		110	5.8	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
RDX	<4.9		110	4.9	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1
Tetryl	<8.5		110	8.5	ug/Kg	☼	11/11/21 14:49	11/18/21 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	96		68 - 140	11/11/21 14:49	11/18/21 15:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	10.8		4.0	0.90	g/Kg			11/08/21 12:26	1
Percent Moisture	13.9		0.1	0.1	%			11/09/21 16:10	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F009

Lab Sample ID: 280-155129-9

Date Collected: 11/02/21 12:40

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 89.1

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<31	^c	190	31	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,2-Dimethyl-3,5-Dinitrobenzene	<26	^c	190	26	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,2-Dimethyl-3,6-Dinitrobenzene	<28	^c	190	28	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,2-Dimethyl-4,5-Dinitrobenzene	<26	^c *	190	26	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,3-Dimethyl-2,4-Dinitrobenzene	<19	^c *	190	19	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,3-Dimethyl-2,5-Dinitrobenzene	<18	^c	190	18	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,4-Dimethyl-2,3-Dinitrobenzene	<30	^c	190	30	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,4-Dimethyl-2,5-Dinitrobenzene	<15		190	15	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,4-Dimethyl-2,6-Dinitrobenzene	<20	^c	190	20	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,5-Dimethyl-2,3-Dinitrobenzene	<30	^c	190	30	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1
1,5-Dimethyl-2,4-Dinitrobenzene	<26	^c	190	26	ug/Kg	✳	11/05/21 13:03	11/20/21 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	4	X	24 - 135	11/05/21 13:03	11/20/21 20:46	1
2-Fluorobiphenyl	61		33 - 135	11/05/21 13:03	11/20/21 20:46	1
2-Fluorophenol	48		39 - 135	11/05/21 13:03	11/20/21 20:46	1
Nitrobenzene-d5	66		32 - 135	11/05/21 13:03	11/20/21 20:46	1
Phenol-d5	62		39 - 135	11/05/21 13:03	11/20/21 20:46	1
Terphenyl-d14	93		30 - 135	11/05/21 13:03	11/20/21 20:46	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<14		110	14	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
1,3-Dinitrobenzene	<7.9		110	7.9	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
2,4,6-Trinitro-3-xylene	<4.5		110	4.5	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
2,4,6-Trinitrotoluene	12	J	110	5.6	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
2,4-Dinitrotoluene	22	J	110	9.1	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
2,6-Dinitrotoluene	<22		110	22	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
2-Amino-4,6-dinitrotoluene	<13		110	13	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
2-Nitrotoluene	<6.4		110	6.4	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
3,4-Dinitrotoluene	<11		110	11	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
3,5-Dinitrotoluene	<23		110	23	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
3-Nitrotoluene	<14		110	14	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
4-Amino-2,6-dinitrotoluene	<5.7		110	5.7	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
4-Nitrotoluene	<12		110	12	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
HMX	<17		110	17	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
Nitrobenzene	<12		110	12	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
Nitroglycerin	<12		110	12	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
PETN	<5.7		110	5.7	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
RDX	<4.8		110	4.8	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1
Tetryl	<8.4		110	8.4	ug/Kg	✳	11/11/21 14:49	11/18/21 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	106		68 - 140	11/11/21 14:49	11/18/21 15:26	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.1	%			11/09/21 16:10	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F000

Lab Sample ID: 280-155129-10

Date Collected: 11/02/21 13:35

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 77.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dimethyl-3,4-Dinitrobenzene	<35	^c	210	35	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,2-Dimethyl-3,5-Dinitrobenzene	<29	^c	210	29	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,2-Dimethyl-3,6-Dinitrobenzene	<31	^c	210	31	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,2-Dimethyl-4,5-Dinitrobenzene	<29	^c *	210	29	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,3-Dimethyl-2,4-Dinitrobenzene	<21	^c *	210	21	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,3-Dimethyl-2,5-Dinitrobenzene	<20	^c	210	20	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,4-Dimethyl-2,3-Dinitrobenzene	<34	^c	210	34	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,4-Dimethyl-2,5-Dinitrobenzene	<16		210	16	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,4-Dimethyl-2,6-Dinitrobenzene	<23	^c	210	23	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,5-Dimethyl-2,3-Dinitrobenzene	<34	^c	210	34	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1
1,5-Dimethyl-2,4-Dinitrobenzene	<29	^c	210	29	ug/Kg	☼	11/05/21 13:03	11/20/21 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	4	X	24 - 135	11/05/21 13:03	11/20/21 21:12	1
2-Fluorobiphenyl	81		33 - 135	11/05/21 13:03	11/20/21 21:12	1
2-Fluorophenol	67		39 - 135	11/05/21 13:03	11/20/21 21:12	1
Nitrobenzene-d5	96		32 - 135	11/05/21 13:03	11/20/21 21:12	1
Phenol-d5	84		39 - 135	11/05/21 13:03	11/20/21 21:12	1
Terphenyl-d14	90		30 - 135	11/05/21 13:03	11/20/21 21:12	1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<15		120	15	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
1,3-Dinitrobenzene	<8.7		120	8.7	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
2,4,6-Trinitro-3-xylene	<5.0		120	5.0	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
2,4,6-Trinitrotoluene	1300		120	6.2	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
2,4-Dinitrotoluene	410		120	10	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
2,6-Dinitrotoluene	41	J	120	24	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
2-Amino-4,6-dinitrotoluene	70	J	120	15	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
2-Nitrotoluene	10	J	120	7.0	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
3,4-Dinitrotoluene	<12		120	12	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
3,5-Dinitrotoluene	<26		120	26	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
3-Nitrotoluene	<16		120	16	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
4-Amino-2,6-dinitrotoluene	48	J	120	6.2	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
4-Nitrotoluene	<13		120	13	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
HMX	<18		120	18	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
Nitrobenzene	<13		120	13	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
Nitroglycerin	<13		120	13	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
PETN	<6.3		120	6.3	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
RDX	<5.3		120	5.3	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1
Tetryl	<9.3		120	9.3	ug/Kg	☼	11/11/21 14:49	11/18/21 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	108		68 - 140	11/11/21 14:49	11/18/21 15:48	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	7.7	F1 F2	4.0	0.90	g/Kg			11/08/21 12:36	1
Percent Moisture	22.2		0.1	0.1	%			11/09/21 16:10	1

Eurofins TestAmerica, Denver

Surrogate Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-135)	FBP (33-135)	2FP (39-135)	NBZ (32-135)	PHL (39-135)	TPHL (30-135)
280-155129-1	SW2021-SED-F002	25	71	53	69	56	89
280-155129-1 MS	SW2021-SED-F002	14 X	80	63	80	76	91
280-155129-1 MSD	SW2021-SED-F002	12 X	79	65	87	53	87
280-155129-2	SW2021-SED-F003	47	70	57	73	77	84
280-155129-3	SW2021-SED-F004	4 X	70	52	69	52	80
280-155129-4	SW2021-SED-F005	12 X	67	61	79	74	86
280-155129-5	SW2021-SED-F006	4 X	66	65	77	40	88
280-155129-6	SW2021-SED-F007	8 X	82	68	93	43	86
280-155129-7	SW2021-SED-F007-D	4 X	80	59	87	42	89
280-155129-8	SW2021-SED-F008	4 X	76	61	73	80	86
280-155129-9	SW2021-SED-F009	4 X	61	48	66	62	93
280-155129-10	SW2021-SED-F000	4 X	81	67	96	84	90
LCS 280-556304/2-A	Lab Control Sample	22 X	80	59	92	55	95
MB 280-556304/1-A	Method Blank	37	72	63	84	61	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		NBZ (68-140)
280-155129-1	SW2021-SED-F002	114
280-155129-1 - DL	SW2021-SED-F002	98 D
280-155129-2	SW2021-SED-F003	102
280-155129-3	SW2021-SED-F004	114
280-155129-4	SW2021-SED-F005	101
280-155129-4 MS	SW2021-SED-F005	111
280-155129-4 MSD	SW2021-SED-F005	100
280-155129-5	SW2021-SED-F006	99
280-155129-6	SW2021-SED-F007	105
280-155129-7	SW2021-SED-F007-D	101
280-155129-8	SW2021-SED-F008	96
280-155129-9	SW2021-SED-F009	106
280-155129-10	SW2021-SED-F000	108
LCS 280-557109/2-A	Lab Control Sample	103
LCSD 280-557109/3-A	Lab Control Sample Dup	105
MB 280-557109/1-A	Method Blank	103

Surrogate Legend

NBZ = Nitrobenzene-d5

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

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

Lab Sample ID: MB 280-556304/1-A
Matrix: Solid
Analysis Batch: 558211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556304

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dimethyl-3,4-Dinitrobenzene	<28		170	28	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,2-Dimethyl-3,5-Dinitrobenzene	<23		170	23	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,2-Dimethyl-3,6-Dinitrobenzene	<25		170	25	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,2-Dimethyl-4,5-Dinitrobenzene	<23		170	23	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,3-Dimethyl-2,4-Dinitrobenzene	<17		170	17	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,3-Dimethyl-2,5-Dinitrobenzene	<16		170	16	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,4-Dimethyl-2,3-Dinitrobenzene	<27		170	27	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,4-Dimethyl-2,5-Dinitrobenzene	<13		170	13	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,4-Dimethyl-2,6-Dinitrobenzene	<18		170	18	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,5-Dimethyl-2,3-Dinitrobenzene	<27		170	27	ug/Kg		11/05/21 13:03	11/20/21 15:33	1
1,5-Dimethyl-2,4-Dinitrobenzene	<23		170	23	ug/Kg		11/05/21 13:03	11/20/21 15:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	37		24 - 135	11/05/21 13:03	11/20/21 15:33	1
2-Fluorobiphenyl	72		33 - 135	11/05/21 13:03	11/20/21 15:33	1
2-Fluorophenol	63		39 - 135	11/05/21 13:03	11/20/21 15:33	1
Nitrobenzene-d5	84		32 - 135	11/05/21 13:03	11/20/21 15:33	1
Phenol-d5	61		39 - 135	11/05/21 13:03	11/20/21 15:33	1
Terphenyl-d14	88		30 - 135	11/05/21 13:03	11/20/21 15:33	1

Lab Sample ID: LCS 280-556304/2-A
Matrix: Solid
Analysis Batch: 558211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556304

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	1730	2020		ug/Kg		117	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	1660	1880		ug/Kg		114	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	1680	1770		ug/Kg		105	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	1720	2470	*	ug/Kg		144	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	1650	2240	*	ug/Kg		136	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	1720	1860		ug/Kg		108	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	1730	2270		ug/Kg		132	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	1700	1770		ug/Kg		104	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	1720	1780		ug/Kg		104	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	1720	1950		ug/Kg		113	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	1730	1940		ug/Kg		112	50 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	22	X	24 - 135
2-Fluorobiphenyl	80		33 - 135
2-Fluorophenol	59		39 - 135
Nitrobenzene-d5	92		32 - 135
Phenol-d5	55		39 - 135
Terphenyl-d14	95		30 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

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

Lab Sample ID: 280-155129-1 MS

Matrix: Solid

Analysis Batch: 558211

Client Sample ID: SW2021-SED-F002

Prep Type: Total/NA

Prep Batch: 556304

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dimethyl-3,4-Dinitrobenzene	<31	^c	1860	2200		ug/Kg	⊛	118	50 - 135
1,2-Dimethyl-3,5-Dinitrobenzene	<26	^c	1770	2060		ug/Kg	⊛	116	50 - 135
1,2-Dimethyl-3,6-Dinitrobenzene	<28	^c	1800	1950		ug/Kg	⊛	108	50 - 135
1,2-Dimethyl-4,5-Dinitrobenzene	<26	^c * F1	1840	2500	F1	ug/Kg	⊛	136	50 - 135
1,3-Dimethyl-2,4-Dinitrobenzene	<19	^c * F1	1770	2740	F1	ug/Kg	⊛	155	50 - 135
1,3-Dimethyl-2,5-Dinitrobenzene	20	J ^c	1840	2070		ug/Kg	⊛	112	50 - 135
1,4-Dimethyl-2,3-Dinitrobenzene	<30	^c F1	1850	2600	F1	ug/Kg	⊛	141	50 - 135
1,4-Dimethyl-2,5-Dinitrobenzene	<14		1820	1980		ug/Kg	⊛	109	50 - 135
1,4-Dimethyl-2,6-Dinitrobenzene	<20	^c	1840	1960		ug/Kg	⊛	107	50 - 135
1,5-Dimethyl-2,3-Dinitrobenzene	<30	^c	1840	2140		ug/Kg	⊛	117	50 - 135
1,5-Dimethyl-2,4-Dinitrobenzene	37	J ^c	1860	2170		ug/Kg	⊛	115	50 - 135

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	14	X	24 - 135
2-Fluorobiphenyl	80		33 - 135
2-Fluorophenol	63		39 - 135
Nitrobenzene-d5	80		32 - 135
Phenol-d5	76		39 - 135
Terphenyl-d14	91		30 - 135

Lab Sample ID: 280-155129-1 MSD

Matrix: Solid

Analysis Batch: 558211

Client Sample ID: SW2021-SED-F002

Prep Type: Total/NA

Prep Batch: 556304

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dimethyl-3,4-Dinitrobenzene	<31	^c	1940	2190		ug/Kg	⊛	113	50 - 135	1	30
1,2-Dimethyl-3,5-Dinitrobenzene	<26	^c	1860	2190		ug/Kg	⊛	118	50 - 135	6	30
1,2-Dimethyl-3,6-Dinitrobenzene	<28	^c	1880	1980		ug/Kg	⊛	105	50 - 135	1	30
1,2-Dimethyl-4,5-Dinitrobenzene	<26	^c * F1	1920	2630	F1	ug/Kg	⊛	137	50 - 135	5	30
1,3-Dimethyl-2,4-Dinitrobenzene	<19	^c * F1	1850	2860	F1	ug/Kg	⊛	155	50 - 135	4	30
1,3-Dimethyl-2,5-Dinitrobenzene	20	J ^c	1920	2070		ug/Kg	⊛	107	50 - 135	0	30
1,4-Dimethyl-2,3-Dinitrobenzene	<30	^c F1	1930	2730	F1	ug/Kg	⊛	141	50 - 135	5	30
1,4-Dimethyl-2,5-Dinitrobenzene	<14		1900	2050		ug/Kg	⊛	108	50 - 135	3	30
1,4-Dimethyl-2,6-Dinitrobenzene	<20	^c	1920	2170		ug/Kg	⊛	113	50 - 135	10	30
1,5-Dimethyl-2,3-Dinitrobenzene	<30	^c	1920	2180		ug/Kg	⊛	113	50 - 135	2	30
1,5-Dimethyl-2,4-Dinitrobenzene	37	J ^c	1940	2100		ug/Kg	⊛	107	50 - 135	3	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	12	X	24 - 135
2-Fluorobiphenyl	79		33 - 135
2-Fluorophenol	65		39 - 135
Nitrobenzene-d5	87		32 - 135
Phenol-d5	53		39 - 135
Terphenyl-d14	87		30 - 135

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

Lab Sample ID: MB 280-557109/1-A
Matrix: Solid
Analysis Batch: 557981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557109

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3,5-Trinitrobenzene	<13		100	13	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
1,3-Dinitrobenzene	<7.1		100	7.1	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
2,4,6-Trinitro-3-xylene	<4.1		100	4.1	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
2,4,6-Trinitrotoluene	<5.0		100	5.0	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
2,4-Dinitrotoluene	<8.2		100	8.2	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
2,6-Dinitrotoluene	<20		100	20	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
2-Amino-4,6-dinitrotoluene	<12		100	12	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
2-Nitrotoluene	<5.7		100	5.7	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
3,4-Dinitrotoluene	<10		100	10	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
3,5-Dinitrotoluene	<21		100	21	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
3-Nitrotoluene	<13		100	13	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
4-Amino-2,6-dinitrotoluene	<5.1		100	5.1	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
4-Nitrotoluene	<11		100	11	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
HMX	<15		100	15	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
Nitrobenzene	<11		100	11	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
Nitroglycerin	<11		100	11	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
PETN	<5.2		100	5.2	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
RDX	<4.3		100	4.3	ug/Kg		11/11/21 14:49	11/18/21 12:32	1
Tetryl	<7.6		100	7.6	ug/Kg		11/11/21 14:49	11/18/21 12:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	103		68 - 140	11/11/21 14:49	11/18/21 12:32	1

Lab Sample ID: LCS 280-557109/2-A
Matrix: Solid
Analysis Batch: 557981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557109

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,3,5-Trinitrobenzene	400	392		ug/Kg		98	45 - 142
1,3-Dinitrobenzene	400	405		ug/Kg		101	74 - 130
2,4,6-Trinitrotoluene	400	368		ug/Kg		92	60 - 135
2,4-Dinitrotoluene	400	382		ug/Kg		96	63 - 130
2,6-Dinitrotoluene	400	380		ug/Kg		95	65 - 133
2-Amino-4,6-dinitrotoluene	400	361		ug/Kg		90	51 - 148
2-Nitrotoluene	400	427		ug/Kg		107	59 - 150
3-Nitrotoluene	400	373		ug/Kg		93	56 - 154
4-Amino-2,6-dinitrotoluene	400	398		ug/Kg		99	60 - 141
4-Nitrotoluene	400	411		ug/Kg		103	72 - 145
HMX	400	386		ug/Kg		97	48 - 131
Nitrobenzene	400	402		ug/Kg		101	70 - 140
Nitroglycerin	400	390		ug/Kg		98	27 - 146
PETN	400	454		ug/Kg		113	31 - 171
RDX	400	358		ug/Kg		89	69 - 130
Tetryl	400	525		ug/Kg		131	10 - 170

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	103		68 - 140

QC Sample Results

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: LCSD 280-557109/3-A
Matrix: Solid
Analysis Batch: 557981

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 557109

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,3,5-Trinitrobenzene	400	424		ug/Kg		106	45 - 142	8	70	
1,3-Dinitrobenzene	400	422		ug/Kg		106	74 - 130	4	25	
2,4,6-Trinitrotoluene	400	437		ug/Kg		109	60 - 135	17	25	
2,4-Dinitrotoluene	400	392		ug/Kg		98	63 - 130	2	25	
2,6-Dinitrotoluene	400	445		ug/Kg		111	65 - 133	16	25	
2-Amino-4,6-dinitrotoluene	400	442		ug/Kg		111	51 - 148	20	25	
2-Nitrotoluene	400	431		ug/Kg		108	59 - 150	1	45	
3-Nitrotoluene	400	407		ug/Kg		102	56 - 154	9	25	
4-Amino-2,6-dinitrotoluene	400	431		ug/Kg		108	60 - 141	8	48	
4-Nitrotoluene	400	428		ug/Kg		107	72 - 145	4	25	
HMX	400	399		ug/Kg		100	48 - 131	3	25	
Nitrobenzene	400	450		ug/Kg		113	70 - 140	11	25	
Nitroglycerin	400	417		ug/Kg		104	27 - 146	7	92	
PETN	400	499		ug/Kg		125	31 - 171	9	40	
RDX	400	372		ug/Kg		93	69 - 130	4	25	
Tetryl	400	592		ug/Kg		148	10 - 170	12	50	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	105		68 - 140

Lab Sample ID: 280-155129-4 MS
Matrix: Solid
Analysis Batch: 557981

Client Sample ID: SW2021-SED-F005
Prep Type: Total/NA
Prep Batch: 557109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
1,3,5-Trinitrobenzene	<15		476	549		ug/Kg	☼	115	45 - 142	
1,3-Dinitrobenzene	<8.6		476	500		ug/Kg	☼	105	74 - 130	
2,4,6-Trinitrotoluene	24	J	476	567		ug/Kg	☼	114	60 - 135	
2,4-Dinitrotoluene	650	F1	476	630	F1	ug/Kg	☼	-4	63 - 130	
2,6-Dinitrotoluene	<24		476	557		ug/Kg	☼	117	65 - 133	
2-Amino-4,6-dinitrotoluene	<14		476	510		ug/Kg	☼	107	51 - 148	
2-Nitrotoluene	<6.9		476	528		ug/Kg	☼	111	59 - 150	
3-Nitrotoluene	<15		476	502		ug/Kg	☼	106	56 - 154	
4-Amino-2,6-dinitrotoluene	<6.1		476	541		ug/Kg	☼	114	60 - 141	
4-Nitrotoluene	<13		476	517		ug/Kg	☼	109	72 - 145	
HMX	<18		476	500		ug/Kg	☼	105	48 - 131	
Nitrobenzene	<13		476	522		ug/Kg	☼	110	70 - 140	
Nitroglycerin	<13		476	460		ug/Kg	☼	97	27 - 146	
PETN	<6.2		476	617		ug/Kg	☼	130	31 - 171	
RDX	<5.2		476	424		ug/Kg	☼	89	69 - 130	
Tetryl	<9.1		476	665		ug/Kg	☼	140	10 - 170	

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	111		68 - 140

QC Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

Lab Sample ID: 280-155129-4 MSD

Matrix: Solid
Analysis Batch: 557981

Client Sample ID: SW2021-SED-F005

Prep Type: Total/NA
Prep Batch: 557109

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,3,5-Trinitrobenzene	<15		477	488		ug/Kg	☼	102		45 - 142	12	70
1,3-Dinitrobenzene	<8.6		477	457		ug/Kg	☼	96		74 - 130	9	25
2,4,6-Trinitrotoluene	24	J	477	492		ug/Kg	☼	98		60 - 135	14	25
2,4-Dinitrotoluene	650	F1	477	641	F1	ug/Kg	☼	-1		63 - 130	2	25
2,6-Dinitrotoluene	<24		477	433		ug/Kg	☼	91		65 - 133	25	25
2-Amino-4,6-dinitrotoluene	<14		477	453		ug/Kg	☼	95		51 - 148	12	25
2-Nitrotoluene	<6.9		477	441		ug/Kg	☼	92		59 - 150	18	45
3-Nitrotoluene	<15		477	470		ug/Kg	☼	98		56 - 154	7	25
4-Amino-2,6-dinitrotoluene	<6.1		477	485		ug/Kg	☼	102		60 - 141	11	48
4-Nitrotoluene	<13		477	482		ug/Kg	☼	101		72 - 145	7	25
HMX	<18		477	472		ug/Kg	☼	99		48 - 131	6	25
Nitrobenzene	<13		477	452		ug/Kg	☼	95		70 - 140	14	25
Nitroglycerin	<13		477	417		ug/Kg	☼	87		27 - 146	10	92
PETN	<6.2		477	560		ug/Kg	☼	117		31 - 171	10	40
RDX	<5.2		477	424		ug/Kg	☼	89		69 - 130	0	25
Tetryl	<9.1		477	592		ug/Kg	☼	124		10 - 170	12	50
MSD MSD												
Surrogate	%Recovery	Qualifier	Limits									
Nitrobenzene-d5	100		68 - 140									

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-556638/4

Matrix: Solid
Analysis Batch: 556638

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Total Organic Carbon	<0.90		4.0	0.90	g/Kg			11/08/21 12:06		1

Lab Sample ID: LCS 280-556638/3

Matrix: Solid
Analysis Batch: 556638

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Total Organic Carbon	4.16	3.47	J	g/Kg		83		46 - 130

Lab Sample ID: 280-155129-10 MS

Matrix: Solid
Analysis Batch: 556638

Client Sample ID: SW2021-SED-F000

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Total Organic Carbon	7.7	F1 F2	12.1	31.61	F1	g/Kg		197		46 - 130

Lab Sample ID: 280-155129-10 MSD

Matrix: Solid
Analysis Batch: 556638

Client Sample ID: SW2021-SED-F000

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Total Organic Carbon	7.7	F1 F2	12.3	21.95	F2	g/Kg		116		46 - 130	36	20

Eurofins TestAmerica, Denver

QC Sample Results

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Method: D 2216-90 - ASTM D 2216-90

Lab Sample ID: 280-155129-1 DU

Matrix: Solid

Analysis Batch: 556803

Client Sample ID: SW2021-SED-F002

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.6		13.0		%		11	20

1

2

3

4

5

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QC Association Summary

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

GC/MS Semi VOA

Prep Batch: 556304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-155129-1	SW2021-SED-F002	Total/NA	Solid	3550C	
280-155129-2	SW2021-SED-F003	Total/NA	Solid	3550C	
280-155129-3	SW2021-SED-F004	Total/NA	Solid	3550C	
280-155129-4	SW2021-SED-F005	Total/NA	Solid	3550C	
280-155129-5	SW2021-SED-F006	Total/NA	Solid	3550C	
280-155129-6	SW2021-SED-F007	Total/NA	Solid	3550C	
280-155129-7	SW2021-SED-F007-D	Total/NA	Solid	3550C	
280-155129-8	SW2021-SED-F008	Total/NA	Solid	3550C	
280-155129-9	SW2021-SED-F009	Total/NA	Solid	3550C	
280-155129-10	SW2021-SED-F000	Total/NA	Solid	3550C	
MB 280-556304/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 280-556304/2-A	Lab Control Sample	Total/NA	Solid	3550C	
280-155129-1 MS	SW2021-SED-F002	Total/NA	Solid	3550C	
280-155129-1 MSD	SW2021-SED-F002	Total/NA	Solid	3550C	

Analysis Batch: 558211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-155129-1	SW2021-SED-F002	Total/NA	Solid	8270C	556304
280-155129-2	SW2021-SED-F003	Total/NA	Solid	8270C	556304
280-155129-3	SW2021-SED-F004	Total/NA	Solid	8270C	556304
280-155129-4	SW2021-SED-F005	Total/NA	Solid	8270C	556304
280-155129-5	SW2021-SED-F006	Total/NA	Solid	8270C	556304
280-155129-6	SW2021-SED-F007	Total/NA	Solid	8270C	556304
280-155129-7	SW2021-SED-F007-D	Total/NA	Solid	8270C	556304
280-155129-8	SW2021-SED-F008	Total/NA	Solid	8270C	556304
280-155129-9	SW2021-SED-F009	Total/NA	Solid	8270C	556304
280-155129-10	SW2021-SED-F000	Total/NA	Solid	8270C	556304
MB 280-556304/1-A	Method Blank	Total/NA	Solid	8270C	556304
LCS 280-556304/2-A	Lab Control Sample	Total/NA	Solid	8270C	556304
280-155129-1 MS	SW2021-SED-F002	Total/NA	Solid	8270C	556304
280-155129-1 MSD	SW2021-SED-F002	Total/NA	Solid	8270C	556304

LCMS

ISM Prep Batch: 556730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-155129-1 - DL	SW2021-SED-F002	Total/NA	Solid	Increment, prep	
280-155129-1	SW2021-SED-F002	Total/NA	Solid	Increment, prep	
280-155129-2	SW2021-SED-F003	Total/NA	Solid	Increment, prep	
280-155129-3	SW2021-SED-F004	Total/NA	Solid	Increment, prep	
280-155129-4	SW2021-SED-F005	Total/NA	Solid	Increment, prep	
280-155129-5	SW2021-SED-F006	Total/NA	Solid	Increment, prep	
280-155129-6	SW2021-SED-F007	Total/NA	Solid	Increment, prep	
280-155129-7	SW2021-SED-F007-D	Total/NA	Solid	Increment, prep	
280-155129-8	SW2021-SED-F008	Total/NA	Solid	Increment, prep	
280-155129-9	SW2021-SED-F009	Total/NA	Solid	Increment, prep	
280-155129-10	SW2021-SED-F000	Total/NA	Solid	Increment, prep	
280-155129-4 MS	SW2021-SED-F005	Total/NA	Solid	Increment, prep	
280-155129-4 MSD	SW2021-SED-F005	Total/NA	Solid	Increment, prep	

QC Association Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

LCMS

Prep Batch: 557109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-155129-1	SW2021-SED-F002	Total/NA	Solid	8330B	556730
280-155129-1 - DL	SW2021-SED-F002	Total/NA	Solid	8330B	556730
280-155129-2	SW2021-SED-F003	Total/NA	Solid	8330B	556730
280-155129-3	SW2021-SED-F004	Total/NA	Solid	8330B	556730
280-155129-4	SW2021-SED-F005	Total/NA	Solid	8330B	556730
280-155129-5	SW2021-SED-F006	Total/NA	Solid	8330B	556730
280-155129-6	SW2021-SED-F007	Total/NA	Solid	8330B	556730
280-155129-7	SW2021-SED-F007-D	Total/NA	Solid	8330B	556730
280-155129-8	SW2021-SED-F008	Total/NA	Solid	8330B	556730
280-155129-9	SW2021-SED-F009	Total/NA	Solid	8330B	556730
280-155129-10	SW2021-SED-F000	Total/NA	Solid	8330B	556730
MB 280-557109/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-557109/2-A	Lab Control Sample	Total/NA	Solid	8330B	
LCSD 280-557109/3-A	Lab Control Sample Dup	Total/NA	Solid	8330B	
280-155129-4 MS	SW2021-SED-F005	Total/NA	Solid	8330B	556730
280-155129-4 MSD	SW2021-SED-F005	Total/NA	Solid	8330B	556730

Analysis Batch: 557981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-155129-1	SW2021-SED-F002	Total/NA	Solid	8321A	557109
280-155129-1 - DL	SW2021-SED-F002	Total/NA	Solid	8321A	557109
280-155129-2	SW2021-SED-F003	Total/NA	Solid	8321A	557109
280-155129-3	SW2021-SED-F004	Total/NA	Solid	8321A	557109
280-155129-4	SW2021-SED-F005	Total/NA	Solid	8321A	557109
280-155129-5	SW2021-SED-F006	Total/NA	Solid	8321A	557109
280-155129-6	SW2021-SED-F007	Total/NA	Solid	8321A	557109
280-155129-7	SW2021-SED-F007-D	Total/NA	Solid	8321A	557109
280-155129-8	SW2021-SED-F008	Total/NA	Solid	8321A	557109
280-155129-9	SW2021-SED-F009	Total/NA	Solid	8321A	557109
280-155129-10	SW2021-SED-F000	Total/NA	Solid	8321A	557109
MB 280-557109/1-A	Method Blank	Total/NA	Solid	8321A	557109
LCS 280-557109/2-A	Lab Control Sample	Total/NA	Solid	8321A	557109
LCSD 280-557109/3-A	Lab Control Sample Dup	Total/NA	Solid	8321A	557109
280-155129-4 MS	SW2021-SED-F005	Total/NA	Solid	8321A	557109
280-155129-4 MSD	SW2021-SED-F005	Total/NA	Solid	8321A	557109

General Chemistry

Analysis Batch: 556638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-155129-8	SW2021-SED-F008	Total/NA	Solid	9060A	
280-155129-10	SW2021-SED-F000	Total/NA	Solid	9060A	
MB 280-556638/4	Method Blank	Total/NA	Solid	9060A	
LCS 280-556638/3	Lab Control Sample	Total/NA	Solid	9060A	
280-155129-10 MS	SW2021-SED-F000	Total/NA	Solid	9060A	
280-155129-10 MSD	SW2021-SED-F000	Total/NA	Solid	9060A	

Analysis Batch: 556803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-155129-1	SW2021-SED-F002	Total/NA	Solid	D 2216-90	
280-155129-2	SW2021-SED-F003	Total/NA	Solid	D 2216-90	

Eurofins TestAmerica, Denver

QC Association Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

General Chemistry (Continued)

Analysis Batch: 556803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-155129-3	SW2021-SED-F004	Total/NA	Solid	D 2216-90	
280-155129-4	SW2021-SED-F005	Total/NA	Solid	D 2216-90	
280-155129-5	SW2021-SED-F006	Total/NA	Solid	D 2216-90	
280-155129-6	SW2021-SED-F007	Total/NA	Solid	D 2216-90	
280-155129-7	SW2021-SED-F007-D	Total/NA	Solid	D 2216-90	
280-155129-8	SW2021-SED-F008	Total/NA	Solid	D 2216-90	
280-155129-9	SW2021-SED-F009	Total/NA	Solid	D 2216-90	
280-155129-10	SW2021-SED-F000	Total/NA	Solid	D 2216-90	
280-155129-1 DU	SW2021-SED-F002	Total/NA	Solid	D 2216-90	

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F002

Lab Sample ID: 280-155129-1

Date Collected: 11/01/21 15:00

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F002

Lab Sample ID: 280-155129-1

Date Collected: 11/01/21 15:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.5 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 16:25	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.26 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 13:08	AGCM	TAL DEN
Total/NA	ISM Prep	Increment, prep	DL				556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B	DL		10.26 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A	DL	2			557981	11/18/21 16:00	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F003

Lab Sample ID: 280-155129-2

Date Collected: 11/01/21 15:20

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F003

Lab Sample ID: 280-155129-2

Date Collected: 11/01/21 15:20

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.6 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 17:43	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.41 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 13:20	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F004

Lab Sample ID: 280-155129-3

Date Collected: 11/01/21 15:40

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F004

Lab Sample ID: 280-155129-3

Date Collected: 11/01/21 15:40

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.7 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 18:09	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.23 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 13:32	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F005

Lab Sample ID: 280-155129-4

Date Collected: 11/01/21 16:00

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F005

Lab Sample ID: 280-155129-4

Date Collected: 11/01/21 16:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			31.0 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	558211	11/20/21 18:36	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.02 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 13:44	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F006

Lab Sample ID: 280-155129-5

Date Collected: 11/01/21 16:15

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F006

Lab Sample ID: 280-155129-5

Date Collected: 11/01/21 16:15

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			32.7 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 19:02	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.13 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 14:20	AGCM	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F007

Lab Sample ID: 280-155129-6

Date Collected: 11/02/21 13:10

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F007

Lab Sample ID: 280-155129-6

Date Collected: 11/02/21 13:10

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			31.0 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 19:28	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.1 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 14:44	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F007-D

Lab Sample ID: 280-155129-7

Date Collected: 11/02/21 13:10

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F007-D

Lab Sample ID: 280-155129-7

Date Collected: 11/02/21 13:10

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			32.0 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 19:54	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.13 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 15:02	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F008

Lab Sample ID: 280-155129-8

Date Collected: 11/02/21 12:55

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	105.9 mg	105.9 mg	556638	11/08/21 12:26	RAF	TAL DEN
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F008

Lab Sample ID: 280-155129-8

Date Collected: 11/02/21 12:55

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			31.1 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 20:20	MKW	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F008

Lab Sample ID: 280-155129-8

Date Collected: 11/02/21 12:55

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.34 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 15:14	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F009

Lab Sample ID: 280-155129-9

Date Collected: 11/02/21 12:40

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F009

Lab Sample ID: 280-155129-9

Date Collected: 11/02/21 12:40

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.2 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1	200 uL	1.0 mL	558211	11/20/21 20:46	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.13 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 15:26	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F000

Lab Sample ID: 280-155129-10

Date Collected: 11/02/21 13:35

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	96.7 mg	96.7 mg	556638	11/08/21 12:36	RAF	TAL DEN
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Client Sample ID: SW2021-SED-F000

Lab Sample ID: 280-155129-10

Date Collected: 11/02/21 13:35

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.8 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 21:12	MKW	TAL DEN
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.51 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 15:48	AGCM	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: Method Blank

Lab Sample ID: MB 280-556304/1-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 15:33	MKW	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-556638/4

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	95.5 mg	95.5 mg	556638	11/08/21 12:06	RAF	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-557109/1-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330B			10 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 12:32	AGCM	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-556304/2-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 15:59	MKW	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-556638/3

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	104.8 mg	104.8 mg	556638	11/08/21 11:58	RAF	TAL DEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-557109/2-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330B			10 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 12:44	AGCM	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
 Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 280-557109/3-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8330B			10 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 12:56	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F002

Lab Sample ID: 280-155129-1 MS

Date Collected: 11/01/21 15:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			31.7 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 16:51	MKW	TAL DEN

Client Sample ID: SW2021-SED-F002

Lab Sample ID: 280-155129-1 MSD

Date Collected: 11/01/21 15:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.3 g	1 mL	556304	11/05/21 13:03	TGH	TAL DEN
Total/NA	Analysis	8270C		1			558211	11/20/21 17:17	MKW	TAL DEN

Client Sample ID: SW2021-SED-F005

Lab Sample ID: 280-155129-4 MS

Date Collected: 11/01/21 16:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.12 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 13:56	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F005

Lab Sample ID: 280-155129-4 MSD

Date Collected: 11/01/21 16:00

Matrix: Solid

Date Received: 11/04/21 11:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					556730	11/09/21 10:54	EKB	TAL DEN
Total/NA	Prep	8330B			10.09 g	40 mL	557109	11/11/21 14:49	TEH	TAL DEN
Total/NA	Analysis	8321A		1			557981	11/18/21 14:08	AGCM	TAL DEN

Client Sample ID: SW2021-SED-F000

Lab Sample ID: 280-155129-10 MS

Date Collected: 11/02/21 13:35

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	97.1 mg	97.1 mg	556638	11/08/21 12:45	RAF	TAL DEN

Lab Chronicle

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Client Sample ID: SW2021-SED-F000

Lab Sample ID: 280-155129-10 MSD

Date Collected: 11/02/21 13:35

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	95.8 mg	95.8 mg	556638	11/08/21 12:55	RAF	TAL DEN

Client Sample ID: SW2021-SED-F002

Lab Sample ID: 280-155129-1 DU

Date Collected: 11/01/21 15:00

Matrix: Solid

Date Received: 11/04/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216-90		1			556803	11/09/21 16:10	SJD	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: The Chemours Company FC, LLC
Project/Site: BAR-Sediment Sampling 2021

Job ID: 280-155129-1

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999615430	08-31-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Chain of Custody Record

Client Information		Sampler: <i>D. S. Moran & N. Olson</i>		Lab PM: Johnston, Michelle A	Carrier Tracking No: 50494006 2462	COC No: 280-108908-31678.7																			
Sharon Nordstrom		Phone: 715533 0343		E-Mail: Michelle.Johnston@Eurofinset.com	State of Origin: WI	Page: Page 1 of 1																			
Company: The Chemours Company FC, LLC		PWSID:		Job #:																					
Address: c/o AECOM Sabre Building, Suite 300 4051 Ogletown Road		Due Date Requested:		Analysis Requested																					
City: Newark		TAT Requested (days): 15 business day		Preservation Codes:																					
State, Zip: DE, 19713		Compliance Project: Δ Yes Δ No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:																					
Phone: 302-781-5936(Tel)		PO #: LBIO-67048 / 77201000-WH06-508001		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)																					
Email: sharon.nordstrom@aecom.com		WO #: Project #: 28003398		Special Instructions/Note:																					
Project Name: BAR-Sediment Sampling 2021		SSOW#:		Total Number of containers																					
Site: Barksdale, WI		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=Soil, O=Organic, M=Moisture)		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MS (Yes or No)		980A - Total Organic Carbon (TOC)		8271A Nitro Organics (DuPont List + TNX + DNT Isomers)		8270C DNx Analytes		Moisture			
Sample Identification		SW2021-SED-F002		11/11 1500		G		S		S		X		X		X		X		X		3		Special Instructions/Note:	
SW2021-SED-F003		11/11 1520		G		S		S		S		X		X		X		X		X		2			
SW2021-SED-F004		11/11 1540		G		S		S		S		X		X		X		X		X		2			
SW2021-SED-F005		11/11 1600		G		S		S		S		X		X		X		X		X		2			
SW2021-SED-F006		11/11 1615		G		S		S		S		X		X		X		X		X		2			
SW2021-SED-F007		11/12 1310		G		S		S		S		X		X		X		X		X		2			
SW2021-SED-F008		11/12 1255		G		S		S		S		X		X		X		X		X		3			
SW2021-SED-F009		11/12 1240		G		S		S		S		X		X		X		X		X		2			
SW2021-SED-F000		11/12 1335		G		S		S		S		X		X		X		X		X		2			
SW2021-SED-F00																									
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client		<input type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For		<input type="checkbox"/> Months				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV (Other) (specify)																									
Empty Kit Relinquished by: <i>[Signature]</i>		Date/Time: 11/13/21 12:00		Company: AE com		Received by: <i>[Signature]</i>		Date/Time: 11/4/21 1110		Company: EFA/DFN															
Relinquished by: <i>[Signature]</i>		Date/Time:		Company:		Received by:		Date/Time:		Company:															
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:															
Custody Seals Intact: A-Yes Δ No		Custody Seal No.: 245833 245834		Cooler Temperature(s) °C and Other Remarks: 1.9 12/11 CF e1.0																					

Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 280-155129-1

Login Number: 155129

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Johnston, Michelle A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	