South Dakota Spill Report Form

PRCF #: **Case #:** 2025.111

Reported (MM/DD/YY): 9/8/25	Time:	Recorded By: Liam Kirk	

A. REPORTER

Reported By: Jeremy Pavlish			
Organization Name: GZA GeoEnvironmental	☐ Discharger ☑ Public ☐ State ☐ Local ☐ Federal		
Phone: 616-956-6123	Email:		
Address: 601 Fifth Street NW			
City: Grand Rapids	State: MI	Zip: 49504	

B. DISCHARGER (Responsible Party) ☐ As Above in A

Name: Lynn's Dakotamart Gas			
Address: 3435 W Main Street			
City: Rapid City	State: SD	Zip: 57702	
Phone: 605-745-3203	Email:		

C. INCIDENT DATE & LOCATION ☐ As Above In B

Spill Date: (MM/DD/YY)	Spill Time:		
Street or Approx. Location: 445 S Chicago Street			
Survey Description:			
City: Hot Springs	County: Fall River	State: SD	Zip: 57747

D. MATERIAL

Material type (Code/Name): ☐ Hazardous Substance ☐ Oil ☐ Material Unknown ☐ Other	Quantity Spilled	Spilled in Water	Units (Check one)	
unknown	unknown		☐ lb. ☐ bbl.	☐ gal. ☐ oth.
			☐ lb. ☐ bbl.	☐ gal. ☐ oth.
			☐ lb. ☐ bbl.	☐ gal. ☐ oth.

E. SOURCE

Source of Spill: ☐ AST ☐ UST ☐ Railway ☐ Transport ☐ Fixed Facility ☐ Pipeline ☐ Highway ☑ Other

Description: Historical contamination

Regulated Tank Facility: ☑ Tank Facility ID #: 2700011

F. MEDIUM

Medium Affected: ☐ Air ☑ Land ☐ Water ☐ Groundwater ☐ Within Facilities Only

Waterway Affected:

G. CAUSE

Reported Cause: ☐ Transportation Accident ☐ Operational Error ☐ Dumping ☐ Equipment Failure ☐ Natural Phenomenon ☑ Unknown ☐ Other

Description: Historical contamination

H. DAMAGES

# of Injuries: 0	# of Fatalities: 0

I. ACTIONS

Response Action Taken:

K. NOTIFIED

Responding Agency: ☑ DANR ☐ Local ☐ Discharger ☐ Federal ☐ EPA ☐ Other

Agencies Notified:

K. COMMENTS

Comments:

Phase II ESA conducted prior to potential purchase of the property, very low levels of contamination found, DANR assigning closure to file.

Department of Agriculture and Natural Resources
Inspection, Compliance, and Remediation Program
523 East Capitol Avenue
Pierre, South Dakota 57501

Business Hours M – F 8:00-5:00 pm
Normal Business Hours- (605)773-3296
After Business Hours- (605) 773-3231

DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

September 8, 2025

Don Feist
Lynn's Dakotamart Gas
3435 W Main Street
Rapid City, SD 57702

Re: Closure of Department of Agriculture and Natural Resources Spill Number 2025.111, pertaining to a Phase II ESA at Lynn's Dakotamart Gas, 445 S Chicago Street, Hot Springs SD; AST Facility ID # 2700011.

Dear Don Feist,

The Department of Agriculture and Natural Resources (DANR) has completed a review of GZA GeoEnvironmental's Phase II Environmental Site Assessment report regarding potential petroleum contamination present at the above-referenced site. As a result of this review, DANR has determined no further assessment is needed at this site, and the file can be closed.

During GZA's Phase II ESA on April 9, 2025, nine soil borings were advanced at the site. Samples were collected from each of the borings and submitted for laboratory analyses. Petroleum hydrocarbons were detected in the soil but, at levels below Tier 1 Action Levels. Therefore, no further assessment is needed. However, if future problems result from any potential contamination at the site, Lynn's Dakotamart may be responsible for conducting additional assessment and/or clean-up activities.

The closure designation will be recorded in the DANR's release database and can be found at https://apps.sd.gov/NR42InteractiveMap. If you have questions or concerns regarding this letter, please contact Liam Kirk of my staff at (605) 362-3500. Thank you for your cooperation in this matter.

Sincerely,

Terry Florentz, P.E., Administrator
Inspection, Compliance, and Remediation Program
(605) 773-3296

Cc: Dar Coy, Fall River Emergency Manager
Shannon Konst, Petroleum Release Compensation Fund DANR
Florencia Garza, SpartanNash Distribution LLC
Zach Burggraff, DANR
John Raforth, Bangs, McCullen, Butler, Foye & Simmons, LLP, Rapid City



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The Widdicomb Building
601 Fifth Street NW
Suite 102
Grand Rapids, MI 49504
T: 616.956.6123
F: 616.288.3327
www.gza.com

Sent Via Email: Florencia.GarzaInfante@SpartanNash.com

May 16, 2025; Revised June 16, 2025
File No. 16.0063303.03

Ms. Florencia Garza
SpartanNash Distribution LLC
850 76th Street
Grand Rapids, MI 49518

Re: Phase II Environmental Site Assessment Summary Report
505 South 6th Street, Hot Springs, SD

Dear Ms. Garza:

GZA GeoEnvironmental, Inc. (GZA) is pleased to submit this Phase II Environmental Site Assessment (ESA) Summary Report for the referenced property (Subject Property). This report was prepared for SpartanNash Company (Client/User) and the scope of work was developed based on the findings and conclusions of GZA's *Draft Phase I Environmental Site Assessment for 505 South 6th Street, Hot Springs, South Dakota* report dated March 13, 2025 (2025 Phase I ESA). This report may be relied upon by the Client, its successors, affiliates and lenders. Please note that this report is subject to the Limitations provided in **Attachment 1**.

BACKGROUND

The Subject Property consists of three approximately 2.73-acre parcels and contains one grocery store occupied by Lynn's Dakotamart with a pharmacy and one building that is used as a filling station identified as Lynn's Dakotamart Gas. The filling station includes three 10,000-gallon aboveground storage tanks (ASTs). The filling station also formerly contained a car wash which was used from the mid-1960s through the late-2000s.

Historical records indicate the eastern parcels of the Subject Property were residentially developed by the early 1940s, likely earlier. A gasoline service station was also developed on the southern portion of the eastern parcels by the early 1940s, located near the intersection of South 6th Street and Detroit Avenue. A motel was constructed on the northwest portion of the eastern parcels of the Subject Property by the early 1950s, along with additional residential dwellings. The western parcel (445 South Chicago Street) was vacant land before being developed with the present-day filling station in the mid-to-late 1960s. The eastern parcels of the Subject Property continued to be residentially and commercially occupied until it was cleared of all structures and redeveloped with the present-day commercial building and associated property improvements in 1991. The commercial building on the eastern parcels of the Subject Property has been occupied by retail stores and banks since its redevelopment. The gasoline service station on the eastern parcels near the intersection of South 6th Street and Detroit Avenue was discontinued by the late 1980s and was removed from the Subject Property in 1988/1989. The gasoline service station on the western parcel was later remodeled into the present-day gasoline

filling and convenience store in the late 2000s, when it became Dakotamart Gas. The commercial grocery store has been occupied by Dakotamart since 2009.

GZA's 2025 Phase I ESA identified four recognized environmental conditions (RECs) in connection with the Subject Property. The following RECs are identified in the 2024 Phase I ESA:

- *The southern portion of the eastern parcels of the Subject Property was historically occupied by an automotive service and filling station from at least 1942 through 1988 (approximately 46 years). Early servicing activities on the eastern parcels of the Subject Property occurred prior to the advent of current regulations for hazardous waste generation and disposal, i.e., the Resource Conservation and Recovery Act (RCRA) of 1976. Waste handling and disposal practices from the service and fueling operations are not known and are unlikely to be identified in records. An environmental investigation was conducted from 1989 through 1998, which included soil and groundwater sampling, to address petroleum contamination from the former underground storage tank (UST) systems of the gasoline service station. While the investigation included numerous groundwater samples around the former service station, it does not appear sampling included volatile organic compounds, compounds typically associated with solvents and vehicle service operations. Based on the historical use of the property as an automotive service and filling station, especially prior to current regulations, there is a likelihood of material releases of hazardous substances and/or petroleum products to the Subject Property, which is a REC.*

- *The western parcel (455 South Chicago Street) of the Subject Property was historically occupied by an automotive service and filling station from at least 1967 through 2009 (approximately 42 years). Early servicing activities on the western parcel of the Subject Property occurred prior to the advent of current regulations for hazardous substance generation and disposal, i.e., RCRA of 1976. Waste handling and disposal practices from the service and fueling operations are not known and are unlikely to be identified in records. The gasoline service station also featured a total of six USTs. The USTs have since been discontinued and environmental investigations were completed with associated releases issued regulatory closure, except for one 560-gallon waste-oil UST. The 560-gallon waste oil UST was indicated to have been closed in place under the slab of the car wash for the former gasoline service station. No closure letter or confirmation sampling was identified in the regulatory records for the waste-oil UST. In addition, a prior 2009 ESA identified two in-ground hydraulic hoists that were closed-in-place. The prior report stated no soil sampling was conducted in the vicinity of the hydraulic hoists and no sampling was identified to have occurred since the 2009 ESA. Based on the historical use of the western parcel of the Subject property as a gasoline service station, the apparent closed-in-place waste oil UST with no confirmation sampling, and the two closed-in-place in-ground hoists with no confirmation sampling, there is a likelihood of material releases of hazardous substances and/or petroleum products to the Subject Property, which is a REC.*

- *The western parcel (455 South Chicago Street) of the Subject Property currently has three 10,000-gallon aboveground storage tanks (ASTs) which were installed in 1996 within a concrete second containment system. These ASTs are connected to two dispenser islands which have been active on the property since at least the mid-1960s through the present day (approximately 60 years). Historical filling station operations are commonly associated with petroleum releases to soil and groundwater in connection with UST systems. Previous subsurface investigations on the property have not included sampling and testing in the area of the active dispenser islands and associated fuel lines, and are deemed insufficient to rule out the potential for petroleum releases associated with the filling station operations. Based on this, GZA opines the likelihood of releases from the historical and current gasoline filling operations at the Subject Property is a REC.*

- *The western parcel (455 South Chicago Street) of the Subject Property was identified with a car wash that was associated with the former service station. The car wash was likely in operation from the mid-1960s through the late 2000s and ceased when the Subject Property was remodeled into the present-day convenience store. Car washes involve the use of various soaps, detergents, and conditioners that may contain per- and polyfluoroalkyl substances (commonly referred to as PFAS). Based on our experience, car wash operations can result in material releases to the subsurface from PFAS-containing products as a result of low-volume leaks through the drain systems and floor slab associated with typical car wash operations. Based on this, GZA opines the likelihood of material releases from historical car wash operations at the Subject Property is a REC.*

Based on the RECs identified in the 2025 Phase I ESA, GZA opined further investigation was warranted to determine if hazardous substances and/or petroleum products are present in soil or groundwater on the Subject Property at material concentrations. At the request of the Client/User, GZA evaluated the RECs identified in the 2025 Phase I ESA.

OBJECTIVE

The objective of this Phase II ESA, per ASTM International *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, E1903-19* (ASTM E1903-19), is to assess whether there has been a material release of hazardous substances and/or petroleum products, and provide information relevant to identifying, defining and evaluating property conditions associated with target analytes that may pose risk to human health or environment, or risk of bodily injury to persons on the Site. This Phase II ESA included the evaluation of soil and groundwater analytical results to South Dakota Administrative Rules 74:56:05 and 74:54:01. This Phase II ESA scope of work did not include delineation of soil and groundwater contamination, if identified.

SCOPE OF SERVICES

GZA performed or subcontracted the following scope of services:

- Prepared a project-specific Health and Safety Plan in accordance with 29 CFR 1910.120;
- Coordinated between the Client and subcontractors, including utility location/clearance;

- Completed a ground penetrating radar (GPR) survey at proposed probe locations to identify subsurface utilities or abandoned in place USTs;
- Advanced nine soil probes at the Subject Property;
- Characterized, logged and screened soils within the soil probes;
- Collected soil samples from the soil probes;
- Submitted soil samples to a subcontracted laboratory for analysis;
- Data evaluation and interpretation
- Retain Minnesota Petroleum Services to conduct 3rd party tank and dispenser compliance testing; and
- Completion of this Summary Report.

SAMPLING COMPLETED

A subsurface assessment was completed by GZA at the Subject Property on April 9, 2025. The Phase II ESA generally conformed to ASTM E1903-19 in following industry standards. On April 9, 2025, GZA subcontracted Private Underground Locating to clear subsurface utilities, soil probe locations, and complete a GPR survey at the Subject Property. The soil probe locations were cleared and marked with high visibility paint. The sampling locations were selected based on inferred groundwater flow direction and RECs investigated.

On April 9, 2025, GZA observed the advancement of nine soil probes (P-1 through P-9) by Bergerson Caswell (Maple Plain, MN) using a direct-push GeoProbe® drill rig. Soil probes were advanced to maximum depths of 16 to 24 feet below ground surface (bgs). P-1 through P-4 were located on the southern quarter of the eastern parcels in the bituminous parking near the intersection of highway 385 and Detroit Avenue. Soil probes P-5 through P-9 were located on the western parcel of the Subject Property. P-5 was located west of the convenience store and former car wash, P-6 through P-8 were advanced around the dispenser islands, and P-9 was advanced near the AST basin. Refusal was encountered in each soil probe prior to encountering groundwater. The first probe was advanced continuously to refusal at 24 feet. Subsequent probes were advanced to 16 feet and a discrete screen was pushed to refusal. Refer to **Figure 1** for soil probes locations.

GZA staff made visual, tactile, and olfactory observations of recovered soils, checking for the presence of noticeable potential contamination. Soils were also field screened for VOCs using a MiniRAE Lite photoionization detector (PID) and logged in general accordance with ASTM D2488. The PID field screening results are presented on each probe log in parts per million by volume (total concentration as isobutylene) in the head space (air) over the soil tested. No detectable concentrations of VOCs were identified during the PID screening at all probe locations.

Surface materials in soil probe consisted of approximately four inches of asphalt depending on boring location, followed by fine grained sand with some silt and gravel to the terminus of the soil borings. Bedrock refusal was encountered in the soil probes at depths of approximately 24-feet bgs. GZA collected a total of 17 soil samples from soil probes from depth intervals ranging from six to eight feet bgs and 14 to 16 feet bgs. Soil samples collected for laboratory analysis were generally collected from intervals with the highest PID reading from each

probe. Groundwater was not encountered in the soil probes. In lieu of groundwater samples, an additional soil sample was collected from the probe terminus, above the bedrock. Refer to **Attachment 2** for soil probe logs.

The soil samples were placed in laboratory-provided containers and stored on ice until submittal under chain-of-custody to Pace Analytical Services, LLC (Minneapolis, MN) for analysis of gasoline range organics (GRO), benzene, ethylbenzene, toluene, and xylenes (BETX) and methyl-tert-butyl-ether (MTBE) using Method OA-1; total petroleum hydrocarbons (TPH) using Method OA-2; volatile organic compounds (VOCs) using EPA Method 8260D; and per- and polyfluoroalkyl substances (PFAS) using EPA Method 1633.

ANALYTICAL RESULTS

TPH was detected in P-5 at the eight to 10-foot interval at 129 mg/kg. The detected concentration was less than the 500 mg/kg threshold above which a Tier II assessment is required (South Dakota Administrative Rule 74:56:05:08). No VOCs or PFAS were detected in the soil samples analyzed.

The laboratory report and chain-of-custody documentation are provided in **Attachment 3.**

TANK COMPLIANCE TESTING

GZA retained Minnesota Petroleum Service to conduct 3rd party testing on the ASTs and dispensers. The Subject Property features three 10,000-gallon ASTs. Minnesota Petroleum Service conducted the testing on June 2, 2025, which included the following inspections and tests:

- Mechanical/Electronic Leak Detection Certification;
- Volumetric Line Test Certification; and
- UST shear valve inspection form.

In summary, the ASTs and dispensers passed the volumetric line and mechanical/electronic leak detection certification tests; however, Minnesota Petroleum identified that the shear valves were not properly anchored to the fueling dispenser island.

SUMMARY

Based on the information gathered during this Phase II ESA, the RECs identified in the 2025 Phase I ESA are not likely to have resulted in material concentrations of the selected petroleum constituents, VOCs, or PFAS releases in soil at the Subject Property above action levels. No further sampling is recommended at this time.

The shear valves for the dispensers should be anchored to the dispenser island per manufacturers specifications by a license tank contractor.

GZA appreciates the opportunity to assist you with this project. Please let us know if you have any questions or need further information.

Sincerely,

GZA GeoEnvironmental, Inc.

Colton Braun
Scientist II

Jeremy Pavlish
Senior Project Manager

Loretta J. Powers, CHMM
Associate Principal

Attachments: Figure 1
Attachment 1 – Limitations
Attachment 2 – Soil Probe Logs
Attachment 3 – Laboratory Analytical Report and Chain-of-Custody Form
Attachment 4 – Tank Compliance Testing Documentation

FIGURE



Legend

Property Boundary

Probe Location

Est. Direction of Water Table Gradient

Service Layer Credits: (c) Microsoft Corporation (c) 2023 Maxar (c) CNES

Lynn's Dakotamart - Hot Springs

Figure 1
Soil Probe Locations

505 South 6th Street
Hot Springs, SD 57747

GZA Project Number: 16.0063603.00
Fieldwork Date: April 9, 2025
Prepared For: SpartanNash Company

0 100 200
Feet

*RECs and features depicted on this figure may not be shown in their actual locations and should be used only as a helpful guide in connection with full review of the report.

ATTACHMENT 1 - LIMITATIONS

LIMITATIONS

Use of Report

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the report or agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

Standard of Care

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state, or federal agency.
4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the report.

Subsurface Conditions

5. The generalized soil profile(s) provided in our report are based on widely spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
6. Water level readings have been made, as described in this report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the report.

Compliance with Codes and Regulations

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

Screening and Analytical Testing

8. GZA collected environmental samples at the locations identified in the report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
9. Our interpretation of field screening and laboratory data is presented in the report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the report.

Interpretation of Data

11. Our opinions are based on available information as described in the report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the report.

ATTACHMENT 2 - SOIL BORING LOGS

GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-1

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.25') (0.25'-2') - sandy SILT; brown, moist			0.1	90
		(2'-3.5') - SAA (3.5'-4') - silty SAND, fine-grained; red-brown, moist			0.9	90
5		(4'-4.5') - SAA (4.5'-6) - sandy SILT; brown, moist			0.6	80
		SAA			0.7	80
		(8'-8.5') - SAA (8'-10') - SAND, fine-grained; little silt; red-brown, moist	1	P-1 {8-10}	0.8	100
10		SAA			0.6	100
		SAND, fine-grained; trace silt; red-brown, weathered limestone rocks, moist			0.3	80
15		(14'-15.25') - SAA (15.25'-16') - SAND, fine-grained; with gravel, fine-grained; red-brown, moist			0.8	80
		SAND, fine-coarse grained; gravel, fine-coarse grained; weather limestone rocks throughout, red-brown, moist			0.4	65
		SAA			0.7	65
20		SAA			1.1	75
		SAA			0.7	75

End of Probe at 24' due to refusal from bedrock (limestone). Attempted to push discreet screen to groundwater. Refusal of discreet screet at 24' to due refusal. No groundwater encountered. Probe back-filled with bentonite.

REMARKS

1. Soil sample collected from 8'-10' bgs for VOCs.

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 5/9/25 15:12 - J:\GINT PROJECT DATABASES\16.0063603.03 HOT SPRINGS, SD.GPJ

GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-2

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.25') Asphalt (0.25'-2') sandy SILT; brown, moist			1.1	60
		SAA			1.0	60
5		SAA			1.8	70
		(6'-6.75') - silty SAND, fine-grained; red-brown, moist (6.75'-7.25') - sandy SILT; brown, moist (7.25'-8') - SAND, fine-medium grained, w/ coal debris, black, no petro odor, moist	1	P-2 {6-8}	1.0	70
		(8'-9.25') SAND, fine-coarse grained; some silt; limestone rocks throughout, black-brown, no petro odor, moist (9.25'-10') silty SAND, fine grained; red brown, limestone rocks throughout, moist			0.8	45
10		(10'-10.5') - SAA (10.5'-12') - sandy SILT; brown, moist			1.3	45
		SAA, 2"' of weathered limestone rocks at 12.5'			1.0	25
15		sandy SILT; brown, weathered limestone rock at 15.5', moist	2	P-2 {12-14}	0.1	25

End of Probe at 16'. Discreet screen attempted to push to groundwater for groundwater collection. Refusal of discreet screen at 23' due to bedrock (limestone). No groundwater encountered.

REMARKS

1. Soil sample collected from 6'-8' bgs for VOCs
2. Soil sample collected from 12'-14' bgs for VOCs.

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 5/9/25 15:12 - J:\GINT PROJECT DATABASES\16.0063603.03 HOT SPRINGS, SD.GPJ

GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-3

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.25') - Asphalt (0.25'-2') - sandy SILT; grey-brown, moist			0.8	100
		(2'-3.25') - SAA (3.25'-3.75') - sandy SILT; brown-red, moist (3.75'-4') - SAND, fine-coarse grained; gravel, fine-grained; brown, moist			0.4	100
5		(4'-4.75) - SAA (4.75'-5.75') - silty SAND, fine-grained; brown-red, moist (5.75'-6') - SAND, fine-medium grained; little silt; brown-red, moist			0.8	75
		SAA	1	P-3 {6-8}	0.9	75
		SAA			0.4	80
10		SAA			0.6	80
		SAND, fine-coarse grained; gravel, fine-grained; w/ limestone rocks, brown-red, moist			0.4	65
15		SAA	2	P-3 {14-16}	0.7	65

End of Probe at 16'. Discreet screen attempted to push to groundwater for groundwater collection. Refusal of discreet screen at 27' due to bedrock (limestone). No groundwater encountered.

REMARKS

1. Soil sample collected from 6'-8' bgs for VOCs.
2. Soil sample collected from 14'-16' bgs for VOCs.

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 5/9/25 15:12 - J:\GINT PROJECT DATABASES\16.0063603.03 HOT SPRINGS, SD.GPJ

GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-4

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.5') - Asphalt (0.5'-2') - sandy SILT; brown, moist			0.4	100
		(2'-3.75) - SAA (3.75'-4') - silty SAND, fine-grained; red-brown, moist			0.6	100
5		SAA			0.9	80
		(6'-7') - SAA (7'-8') - SAND, fine-grained; little SILT; red-brown, moist	1	P-4 {6-8}	1.2	80
		SAA			0.5	80
10		SAA			0.4	80
		(12'-12.25') - SAA (12.25'-14') - SAND, fine-coarse grained; gravel, fine-medium grained; w/ limestone rocks, light-brown-red, moist			0.4	80
15		SAA			0.5	80

End of Probe at 22'. Discreet screen attempted to push to groundwater for groundwater collection. Refusal of discreet screen at 23' due to bedrock (limestone). No groundwater encountered.

REMARKS

1. Soil sample collected from 6'-8' bgs for VOCs.

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 5/9/25 15:12 - J:\GINT PROJECT DATABASES\16.0063603.03 HOT SPRINGS, SD.GPJ

GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-5

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.1') - Gravel (0.1'-2') - silty SAND, fine-grained; brown, moist			0.3	100
		(2'-3.75') - SAA (3.75-4') - SAND, fine-grained; little silt; brown-red, moist			0.5	100
5		(4'-5') - SAA w/ 3" gravel, fine-medium, brown at 4.75', moist (5'-6') - SAND, fine-grained; trace silt; red-brown, moist			0.4	100
		SAA			0.2	100
		SAA	1	P-5 {8-10}	0.6	100
10		SAA			0.5	100
		(12-13.5') - SAA (13.5'-14') - SAND, fine-coarse sand; gravel, fine-medium grained; w/ limestone rocks (weathered), moist			0.6	100
15		SAA	2	P-5 {14-16}	0.5	100

End of Probe at 16'. Discreet screen attempted to push to groundwater for groundwater collection. Refusal of discreet screen at 22' due to bedrock (limestone). No groundwater encountered.

REMARKS

1. Soil sample collected from 8'-10' bgs for VOCs, OA-1, OA-2, and PFAS.
2. Soil sample collected from 14'-16' bgs for VOCs, OA-1, OA-2, and PFAS.

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GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-6

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.5') - Concrete (0.5'-2') - silty SAND, fine-grained; brown			0.7	90
		SAA			0.3	90
5		(4'-5') -SAA (5'-6') - SAND, fine grained; little silt; red-brown, moist			0.7	65
		SAA	1	P-6 {6-8}	0.7	65
		SAA			0.6	75
10		(10'-11.5') - sandy SILT; red-brown, moist (11.5'-12') - SAND, fine-coarse grained; gravel, fine-medium grained; w/ limestone rocks, brown, moist			0.6	75
		SAA			0.4	80
15		SAA	2	P-6 {14-16}	0.5	80

End of Probe at 16'. Discreet screen attempted to push to groundwater for groundwater collection. Refusal of discreet screen at 18' due to bedrock (limestone). No groundwater encountered.

REMARKS

1. Soil sample collected from 6'-8' bgs for VOCs, OA-1, and OA-2.
2. Soil sample collected from 14'-16' bgs for VOCs, OA-1, and OA-2.

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GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-7

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.5') - Concrete (0.5'-2') - silty SAND, fine-grained; red-brown, moist			0.5	70
		SAA			0.3	70
5		(4'-5.75') - SAA (5.75'-6') - SAND, fine-grained; little silt; red-brown, moist			0.4	75
		SAA			0.5	75
		SAA	1	P-7 {8-10}	0.6	90
10		(10'-11') - SAA (11'-12') - silty SAND, fine-grained; brown-red, moist			0.5	90
		(12'-12.75') - SAA (12.75'-14') - SAND, fine-coarse grained; gravel, fine-coarse grained; w/ weathered limestone rocks, red-brown, moist			0.5	90
15		SAA	2	P-7 {14-16}	0.7	90

End of Probe at 16'. Discreet screen attempted to push to groundwater for groundwater collection. Refusal of discreet screen at 23' due to bedrock (limestone). No groundwater encountered.

REMARKS

1. Soil sample collected from 8'-10' bgs for VOCs, OA-1, and OA-2.
2. Soil sample collected from 14'-16' bgs for VOCs, OA-1, and OA-2

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 5/9/25 15:12 - J:\GINT PROJECT DATABASES\16.0063603.03 HOT SPRINGS, SD.GPJ

GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-8

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.5') Concrete (0.5'-2) - sandy SILT; brown, moist			0.5	75
		SAA			0.4	75
5		(4'-4.25') - SAA (4.25'-5.75') - silty SAND, fine-grained; red-brown, moist (5.75'-6') - SAND, fine-grained; trace silt; red-brown, moist	1	P-8 {4-6}	0.8	100
		SAA			0.5	100
10		(8'-8.5') - SAA (8.5'-10') - SAND, fine-grained; little silt; red-brown, moist			0.2	100
		(10'-11.25') - SAA (11.25-12') - silty SAND, fine-grained; red-brown, moist			0.2	100
		(12'-12.25') - SAA (12.25'-14') - SAND, fine-coarse grained; gravel, fine-medium grained; 6" limestone weathered rocks at 12.75', moist			0.2	70
15		SAA; 4" weathered limestone rocks at 15.5'	2	P-8 {14-16}	0.0	70

End of Probe at 16'. Discreet screen attempted to push to groundwater for groundwater collection. Refusal of discreet screen at 17' due to bedrock (limestone). No groundwater encountered.

REMARKS

1. Soil sample collected from 4'-6' bgs for VOCs, OA-1, and OA-2.
2. Soil sample collected from 14'-16' bgs for VOCs, OA-1, and OA-2.

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 5/9/25 15:12 - J:\GINT PROJECT DATABASES\16.0063603.03 HOT SPRINGS, SD.GPJ

GZA/Vieau Associates
7505 Metro Boulevard, Suite 300
Edina, MN 55439
952-893-7931

PROBE NUMBER P-9

CLIENT SpartanNash Distribution LLC
PROJECT NAME Lynn's Dakotamart Hot Springs
PROJECT NUMBER 16.0063603.03
PROJECT LOCATION 505 South 6th Street
DATE STARTED 4/9/25 **COMPLETED** 4/9/25
GROUND ELEVATION N/A **HOLE SIZE** 2" inches
DRILLING CONTRACTOR Bergerson Caswell
DRILLING METHOD Direct Push
LOGGED BY C. Braun **CHECKED BY** J. Pavlish
DRILL RIG Truck-Mounted

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
4/9/2025		N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE NUMBER (Depth Interval)	PID RESULTS (ppm)	RECOVERY (%)
0		(0-0.1') - Gravel (0.5'-2') - sandy SILT; gravel, fine-medium; brown			0.7	100
		(2'-3.25') - sandy SILT; brown, moist (3.25'-4') - silty SAND, fine-grained; brown, moist			0.6	100
5		(4'-4.5') - SAA (4.5'-6') - SAND, fine-grained; little silt; brown, moist			0.3	90
		(6'-7') - SAA (7'-8') SAND, fine-grained; trace silt; brown-red, moist			0.3	90
		SAA	1	P-9 {8-10}	0.6	80
10		(10'-10.75') - SAA (10.75'-11.75') - SAND, fine-grained; little silt; brown-red, moist (11.75'-12') - silty SAND; fine-grained; brown-red, moist			0.4	80
		SAND, fine-coarse grained; gravel, fine-coarse grained; light brown-red, weathered limestone rocks, moist			0.2	80
15		SAA	2	P-9 {14-16}	0.4	80

End of Probe at 16'. Discreet screen attempted to push to groundwater for groundwater collection. Refusal of discreet screen at 19' due to bedrock (limestone). No groundwater encountered.

REMARKS

1. Soil sample collected from 8'-10' bgs for VOCs, OA-1, OA-2, and PFAS.
2. Soil sample collected from 14'-16' bgs for VOCs, OA-1, OA-2, and PFAS.

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 5/9/25 15:12 - J:\GINT PROJECT DATABASES\16.0063603.03 HOT SPRINGS, SD.GPJ

ATTACHMENT 3

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORM

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 28, 2025

Aaron Remer
GZA GeoEnvironmental
7505 Metro Blvd
Suite 300
Edina, MN 55439

RE: Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Dear Aaron Remer:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Kansas City
- Pace Analytical Services - Minneapolis

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

Sincerely,

Sylvia Hunter

Sylvia Hunter
sylvia.hunter@pacelabs.com
1(612)607-1700
Project Manager

Enclosures

cc: Morgan Kodama, Vieau Associates

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Arkansas Certification #: 88-00679
Illinois Certification #: 2000302023-6
Colorado Division of Oil and Public Safety
Iowa Certification #: 118
Kansas Field Laboratory Certification #: E-92587
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Missouri Inorganic Drinking Water Certification
Nevada Certification #: KS000212024-1
Oklahoma Certification #: 2023-073
Texas Certification #: T104704407-23-17
Utah Certification #: KS000212022-13

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Pace Analytical Services National

Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10730729001	**P-1 (8-10)**	Solid	04/09/25 13:05	04/11/25 08:55
10730729002	**P-2 (6-8)**	Solid	04/09/25 13:25	04/11/25 08:55
10730729003	**P-2 (14-16)**	Solid	04/09/25 13:30	04/11/25 08:55
10730729004	**P-3 (6-8)**	Solid	04/09/25 14:10	04/11/25 08:55
10730729005	**P-3 (14-16)**	Solid	04/09/25 14:15	04/11/25 08:55
10730729006	**P-4 (6-8)**	Solid	04/09/25 14:30	04/11/25 08:55
10730729007	**P-5 (8-10)**	Solid	04/09/25 15:10	04/11/25 08:55
10730729008	**P-5 (14-16)**	Solid	04/09/25 15:15	04/11/25 08:55
10730729009	**P-6 (6-8)**	Solid	04/09/25 17:55	04/11/25 08:55
10730729010	**P-6 (14-16)**	Solid	04/09/25 18:00	04/11/25 08:55
10730729011	**P-7 (8-10)**	Solid	04/09/25 18:25	04/11/25 08:55
10730729012	**P-7 (14-16)**	Solid	04/09/25 18:30	04/11/25 08:55
10730729013	**P-8 (4-6)**	Solid	04/09/25 18:40	04/11/25 08:55
10730729014	**P-8 (14-16)**	Solid	04/09/25 18:45	04/11/25 08:55
10730729015	**P-9 (8-10)**	Solid	04/09/25 19:00	04/11/25 08:55
10730729016	**P-9 (14-16)**	Solid	04/09/25 19:10	04/11/25 08:55
10730729017	**PFAS Field Blank**	Water	04/09/25 15:15	04/11/25 08:55
10730729018	**PFAS Equipment Blank**	Water	04/09/25 17:10	04/11/25 08:55
10730729019	**Trip Blank Soil**	Solid		04/11/25 08:55

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10730729001	**P-1 (8-10)**	ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729002	**P-2 (6-8)**	ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729003	**P-2 (14-16)**	ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729004	**P-3 (6-8)**	ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729005	**P-3 (14-16)**	ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729006	**P-4 (6-8)**	ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729007	**P-5 (8-10)**	OA2	JDS	3	PASI-K
		OA1	DWR	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
		EPA 1633	NBH	65	PASI-M
10730729008	**P-5 (14-16)**	OA2	JDS	3	PASI-K
		OA1	DWR	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
		EPA 1633	NBH	65	PASI-M
10730729009	**P-6 (6-8)**	OA2	JDS	3	PASI-K
		OA1	DWR	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729010	**P-6 (14-16)**	OA2	JDS	3	PASI-K
		OA1	DWR	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729011	**P-7 (8-10)**	OA2	JDS	3	PASI-K
		OA1	DWR	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729012	**P-7 (14-16)**	OA2	JDS	3	PASI-K
		OA1	DWR	8	PAN
		ASTM D2974	BT	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	ZB	72	PASI-M
10730729013	**P-8 (4-6)**	OA2	JDS	3	PASI-K
		OA1	JAH	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729014	**P-8 (14-16)**	OA2	JDS	3	PASI-K
		OA1	JAH	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10730729015	**P-9 (8-10)**	OA2	JDS	3	PASI-K
		OA1	JAH	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
		EPA 1633	NBH	65	PASI-M
10730729016	**P-9 (14-16)**	OA2	JDS	3	PASI-K
		OA1	JAH	8	PAN
		ASTM D2974	BT	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
		EPA 1633	NBH	65	PASI-M
10730729017	**PFAS Field Blank**	EPA 1633	MJL	65	PASI-M
10730729018	**PFAS Equipment Blank**	EPA 1633	MJL	65	PASI-M
10730729019	**Trip Blank Soil**	EPA 8260D	ZB	72	PASI-M

PAN = Pace National - Mt. Juliet
PASI-K = Pace Analytical Services - Kansas City
PASI-M = Pace Analytical Services - Minneapolis

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-1 (8-10) **Lab ID: 10730729001** Collected: 04/09/25 13:05 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.1**	%	0.10	1		04/13/25 09:47		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1300	1	04/17/25 11:03	04/17/25 22:09	67-64-1	
Allyl chloride	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	107-05-1	
Benzene	ND	ug/kg	25.9	1	04/17/25 11:03	04/17/25 22:09	71-43-2	
Bromobenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	108-86-1	
Bromochloromethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	74-97-5	
Bromodichloromethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	75-27-4	
Bromoform	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	75-25-2	
Bromomethane	ND	ug/kg	648	1	04/17/25 11:03	04/17/25 22:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	324	1	04/17/25 11:03	04/17/25 22:09	78-93-3	
n-Butylbenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	56-23-5	
Chlorobenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	108-90-7	
Chloroethane	ND	ug/kg	648	1	04/17/25 11:03	04/17/25 22:09	75-00-3	
Chloroform	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	67-66-3	
Chloromethane	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	648	1	04/17/25 11:03	04/17/25 22:09	96-12-8	
Dibromochloromethane	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	106-93-4	
Dibromomethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	156-60-5	
Dichlorofluoromethane	ND	ug/kg	648	1	04/17/25 11:03	04/17/25 22:09	75-43-4	
1,2-Dichloropropane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	60-29-7	
Ethylbenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	100-41-4	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-1 (8-10) **Lab ID: 10730729001** Collected: 04/09/25 13:05 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Hexachloro-1,3-butadiene	ND	ug/kg	324	1	04/17/25 11:03	04/17/25 22:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	99-87-6	
Methylene Chloride	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	324	1	04/17/25 11:03	04/17/25 22:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	1634-04-4	
Naphthalene	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	91-20-3	
n-Propylbenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	103-65-1	
Styrene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	79-34-5	
Tetrachloroethene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	127-18-4	
Tetrahydrofuran	ND	ug/kg	2590	1	04/17/25 11:03	04/17/25 22:09	109-99-9	
Toluene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	79-00-5	
Trichloroethene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	259	1	04/17/25 11:03	04/17/25 22:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	108-67-8	
Vinyl chloride	ND	ug/kg	25.9	1	04/17/25 11:03	04/17/25 22:09	75-01-4	
Xylene (Total)	ND	ug/kg	194	1	04/17/25 11:03	04/17/25 22:09	1330-20-7	
m&p-Xylene	ND	ug/kg	130	1	04/17/25 11:03	04/17/25 22:09	179601-23-1	
o-Xylene	ND	ug/kg	64.8	1	04/17/25 11:03	04/17/25 22:09	95-47-6	
Surrogates								
Toluene-d8 (S)	110	%.	75-125	1	04/17/25 11:03	04/17/25 22:09	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1	04/17/25 11:03	04/17/25 22:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	04/17/25 11:03	04/17/25 22:09	2199-69-1	

Sample: P-2 (6-8) **Lab ID: 10730729002** Collected: 04/09/25 13:25 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.5**	%	0.10	1		04/13/25 09:49		N2

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-2 (6-8) **Lab ID: 10730729002** Collected: 04/09/25 13:25 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1260	1	04/17/25 11:03	04/18/25 18:54	67-64-1	
Allyl chloride	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	107-05-1	
Benzene	ND	ug/kg	25.2	1	04/17/25 11:03	04/18/25 18:54	71-43-2	
Bromobenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	108-86-1	
Bromochloromethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	74-97-5	
Bromodichloromethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	75-27-4	
Bromoform	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	75-25-2	
Bromomethane	ND	ug/kg	630	1	04/17/25 11:03	04/18/25 18:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	315	1	04/17/25 11:03	04/18/25 18:54	78-93-3	
n-Butylbenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	56-23-5	
Chlorobenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	108-90-7	
Chloroethane	ND	ug/kg	630	1	04/17/25 11:03	04/18/25 18:54	75-00-3	
Chloroform	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	67-66-3	
Chloromethane	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	630	1	04/17/25 11:03	04/18/25 18:54	96-12-8	
Dibromochloromethane	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	106-93-4	
Dibromomethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	156-60-5	
Dichlorofluoromethane	ND	ug/kg	630	1	04/17/25 11:03	04/18/25 18:54	75-43-4	
1,2-Dichloropropane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	60-29-7	
Ethylbenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	315	1	04/17/25 11:03	04/18/25 18:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	99-87-6	
Methylene Chloride	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	75-09-2	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-2 (6-8) **Lab ID: 10730729002** Collected: 04/09/25 13:25 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	315	1	04/17/25 11:03	04/18/25 18:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	1634-04-4	
Naphthalene	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	91-20-3	
n-Propylbenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	103-65-1	
Styrene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	79-34-5	
Tetrachloroethene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	127-18-4	
Tetrahydrofuran	ND	ug/kg	2520	1	04/17/25 11:03	04/18/25 18:54	109-99-9	
Toluene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	79-00-5	
Trichloroethene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	252	1	04/17/25 11:03	04/18/25 18:54	76-13-1	SS
1,2,4-Trimethylbenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	108-67-8	
Vinyl chloride	ND	ug/kg	25.2	1	04/17/25 11:03	04/18/25 18:54	75-01-4	
Xylene (Total)	ND	ug/kg	189	1	04/17/25 11:03	04/18/25 18:54	1330-20-7	
m&p-Xylene	ND	ug/kg	126	1	04/17/25 11:03	04/18/25 18:54	179601-23-1	
o-Xylene	ND	ug/kg	63.0	1	04/17/25 11:03	04/18/25 18:54	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%.	75-125	1	04/17/25 11:03	04/18/25 18:54	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	04/17/25 11:03	04/18/25 18:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	04/17/25 11:03	04/18/25 18:54	2199-69-1	

Sample: P-2 (14-16) **Lab ID: 10730729003** Collected: 04/09/25 13:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.3**	%	0.10	1		04/13/25 09:50		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1190	1	04/17/25 11:03	04/17/25 20:46	67-64-1	
Allyl chloride	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	107-05-1	
Benzene	ND	ug/kg	23.8	1	04/17/25 11:03	04/17/25 20:46	71-43-2	
Bromobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	108-86-1	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-2 (14-16) **Lab ID: 10730729003** Collected: 04/09/25 13:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Bromochloromethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	74-97-5	
Bromodichloromethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	75-27-4	
Bromoform	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	75-25-2	
Bromomethane	ND	ug/kg	595	1	04/17/25 11:03	04/17/25 20:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	298	1	04/17/25 11:03	04/17/25 20:46	78-93-3	
n-Butylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	56-23-5	
Chlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	108-90-7	
Chloroethane	ND	ug/kg	595	1	04/17/25 11:03	04/17/25 20:46	75-00-3	
Chloroform	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	67-66-3	
Chloromethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	595	1	04/17/25 11:03	04/17/25 20:46	96-12-8	
Dibromochloromethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	106-93-4	
Dibromomethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	156-60-5	
Dichlorofluoromethane	ND	ug/kg	595	1	04/17/25 11:03	04/17/25 20:46	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	60-29-7	
Ethylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	298	1	04/17/25 11:03	04/17/25 20:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	99-87-6	
Methylene Chloride	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	298	1	04/17/25 11:03	04/17/25 20:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	1634-04-4	
Naphthalene	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	91-20-3	
n-Propylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	103-65-1	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-2 (14-16) **Lab ID: 10730729003** Collected: 04/09/25 13:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Styrene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	79-34-5	
Tetrachloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	127-18-4	
Tetrahydrofuran	ND	ug/kg	2380	1	04/17/25 11:03	04/17/25 20:46	109-99-9	
Toluene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	79-00-5	
Trichloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 20:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	108-67-8	
Vinyl chloride	ND	ug/kg	23.8	1	04/17/25 11:03	04/17/25 20:46	75-01-4	
Xylene (Total)	ND	ug/kg	179	1	04/17/25 11:03	04/17/25 20:46	1330-20-7	
m&p-Xylene	ND	ug/kg	119	1	04/17/25 11:03	04/17/25 20:46	179601-23-1	
o-Xylene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 20:46	95-47-6	
Surrogates								
Toluene-d8 (S)	111	%.	75-125	1	04/17/25 11:03	04/17/25 20:46	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1	04/17/25 11:03	04/17/25 20:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	04/17/25 11:03	04/17/25 20:46	2199-69-1	

Sample: P-3 (6-8) **Lab ID: 10730729004** Collected: 04/09/25 14:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.5**	%	0.10	1		04/13/25 09:51		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1250	1	04/17/25 11:03	04/17/25 21:02	67-64-1	
Allyl chloride	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	107-05-1	
Benzene	ND	ug/kg	25.0	1	04/17/25 11:03	04/17/25 21:02	71-43-2	
Bromobenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	108-86-1	
Bromochloromethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	74-97-5	
Bromodichloromethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	75-27-4	
Bromoform	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	75-25-2	
Bromomethane	ND	ug/kg	624	1	04/17/25 11:03	04/17/25 21:02	74-83-9	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-3 (6-8) **Lab ID: 10730729004** Collected: 04/09/25 14:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
2-Butanone (MEK)	ND	ug/kg	312	1	04/17/25 11:03	04/17/25 21:02	78-93-3	
n-Butylbenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	104-51-8	
sec-Butylbenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	98-06-6	
Carbon tetrachloride	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	56-23-5	
Chlorobenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	108-90-7	
Chloroethane	ND	ug/kg	624	1	04/17/25 11:03	04/17/25 21:02	75-00-3	
Chloroform	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	67-66-3	
Chloromethane	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	624	1	04/17/25 11:03	04/17/25 21:02	96-12-8	
Dibromochloromethane	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	106-93-4	
Dibromomethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	156-60-5	
Dichlorofluoromethane	ND	ug/kg	624	1	04/17/25 11:03	04/17/25 21:02	75-43-4	
1,2-Dichloropropane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	60-29-7	
Ethylbenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	312	1	04/17/25 11:03	04/17/25 21:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	98-82-8	
p-Isopropyltoluene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	99-87-6	
Methylene Chloride	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	312	1	04/17/25 11:03	04/17/25 21:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	1634-04-4	
Naphthalene	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	91-20-3	
n-Propylbenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	103-65-1	
Styrene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	79-34-5	
Tetrachloroethene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	127-18-4	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-3 (6-8) **Lab ID: 10730729004** Collected: 04/09/25 14:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Tetrahydrofuran	ND	ug/kg	2500	1	04/17/25 11:03	04/17/25 21:02	109-99-9	
Toluene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	79-00-5	
Trichloroethene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	79-01-6	
Trichlorofluoromethane	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 21:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	108-67-8	
Vinyl chloride	ND	ug/kg	25.0	1	04/17/25 11:03	04/17/25 21:02	75-01-4	
Xylene (Total)	ND	ug/kg	187	1	04/17/25 11:03	04/17/25 21:02	1330-20-7	
m&p-Xylene	ND	ug/kg	125	1	04/17/25 11:03	04/17/25 21:02	179601-23-1	
o-Xylene	ND	ug/kg	62.4	1	04/17/25 11:03	04/17/25 21:02	95-47-6	
Surrogates								
Toluene-d8 (S)	110	%.	75-125	1	04/17/25 11:03	04/17/25 21:02	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1	04/17/25 11:03	04/17/25 21:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	04/17/25 11:03	04/17/25 21:02	2199-69-1	

Sample: P-3 (14-16) **Lab ID: 10730729005** Collected: 04/09/25 14:15 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**5.7**	%	0.10	1		04/13/25 09:53		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1220	1	04/17/25 11:03	04/17/25 21:19	67-64-1	
Allyl chloride	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	107-05-1	
Benzene	ND	ug/kg	24.5	1	04/17/25 11:03	04/17/25 21:19	71-43-2	
Bromobenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	108-86-1	
Bromochloromethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	74-97-5	
Bromodichloromethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	75-27-4	
Bromoform	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	75-25-2	
Bromomethane	ND	ug/kg	612	1	04/17/25 11:03	04/17/25 21:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	306	1	04/17/25 11:03	04/17/25 21:19	78-93-3	
n-Butylbenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	98-06-6	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-3 (14-16) **Lab ID: 10730729005** Collected: 04/09/25 14:15 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Carbon tetrachloride	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	56-23-5	
Chlorobenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	108-90-7	
Chloroethane	ND	ug/kg	612	1	04/17/25 11:03	04/17/25 21:19	75-00-3	
Chloroform	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	67-66-3	
Chloromethane	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	612	1	04/17/25 11:03	04/17/25 21:19	96-12-8	
Dibromochloromethane	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	106-93-4	
Dibromomethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	156-60-5	
Dichlorofluoromethane	ND	ug/kg	612	1	04/17/25 11:03	04/17/25 21:19	75-43-4	
1,2-Dichloropropane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	60-29-7	
Ethylbenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	306	1	04/17/25 11:03	04/17/25 21:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	99-87-6	
Methylene Chloride	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	306	1	04/17/25 11:03	04/17/25 21:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	1634-04-4	
Naphthalene	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	91-20-3	
n-Propylbenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	103-65-1	
Styrene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	79-34-5	
Tetrachloroethene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	127-18-4	
Tetrahydrofuran	ND	ug/kg	2450	1	04/17/25 11:03	04/17/25 21:19	109-99-9	
Toluene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	120-82-1	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-3 (14-16) **Lab ID: 10730729005** Collected: 04/09/25 14:15 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,1,1-Trichloroethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	79-00-5	
Trichloroethene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	245	1	04/17/25 11:03	04/17/25 21:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	108-67-8	
Vinyl chloride	ND	ug/kg	24.5	1	04/17/25 11:03	04/17/25 21:19	75-01-4	
Xylene (Total)	ND	ug/kg	183	1	04/17/25 11:03	04/17/25 21:19	1330-20-7	
m&p-Xylene	ND	ug/kg	122	1	04/17/25 11:03	04/17/25 21:19	179601-23-1	
o-Xylene	ND	ug/kg	61.2	1	04/17/25 11:03	04/17/25 21:19	95-47-6	
Surrogates								
Toluene-d8 (S)	109	%.	75-125	1	04/17/25 11:03	04/17/25 21:19	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	75-125	1	04/17/25 11:03	04/17/25 21:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	04/17/25 11:03	04/17/25 21:19	2199-69-1	

Sample: P-4 (6-8) **Lab ID: 10730729006** Collected: 04/09/25 14:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.6**	%	0.10	1		04/13/25 09:54		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1040	1	04/17/25 11:03	04/17/25 21:36	67-64-1	
Allyl chloride	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	107-05-1	
Benzene	ND	ug/kg	20.8	1	04/17/25 11:03	04/17/25 21:36	71-43-2	
Bromobenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	108-86-1	
Bromochloromethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	74-97-5	
Bromodichloromethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	75-27-4	
Bromoform	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	75-25-2	
Bromomethane	ND	ug/kg	520	1	04/17/25 11:03	04/17/25 21:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	260	1	04/17/25 11:03	04/17/25 21:36	78-93-3	
n-Butylbenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	56-23-5	
Chlorobenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	108-90-7	
Chloroethane	ND	ug/kg	520	1	04/17/25 11:03	04/17/25 21:36	75-00-3	
Chloroform	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	67-66-3	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-4 (6-8) **Lab ID: 10730729006** Collected: 04/09/25 14:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Chloromethane	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	520	1	04/17/25 11:03	04/17/25 21:36	96-12-8	
Dibromochloromethane	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	106-93-4	
Dibromomethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	156-60-5	
Dichlorofluoromethane	ND	ug/kg	520	1	04/17/25 11:03	04/17/25 21:36	75-43-4	
1,2-Dichloropropane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	60-29-7	
Ethylbenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	260	1	04/17/25 11:03	04/17/25 21:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	99-87-6	
Methylene Chloride	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	260	1	04/17/25 11:03	04/17/25 21:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	1634-04-4	
Naphthalene	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	91-20-3	
n-Propylbenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	103-65-1	
Styrene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	79-34-5	
Tetrachloroethene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	127-18-4	
Tetrahydrofuran	ND	ug/kg	2080	1	04/17/25 11:03	04/17/25 21:36	109-99-9	
Toluene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	79-00-5	
Trichloroethene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	75-69-4	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-4 (6-8) **Lab ID: 10730729006** Collected: 04/09/25 14:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,3-Trichloropropane	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	208	1	04/17/25 11:03	04/17/25 21:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	108-67-8	
Vinyl chloride	ND	ug/kg	20.8	1	04/17/25 11:03	04/17/25 21:36	75-01-4	
Xylene (Total)	ND	ug/kg	156	1	04/17/25 11:03	04/17/25 21:36	1330-20-7	
m&p-Xylene	ND	ug/kg	104	1	04/17/25 11:03	04/17/25 21:36	179601-23-1	
o-Xylene	ND	ug/kg	52.0	1	04/17/25 11:03	04/17/25 21:36	95-47-6	
Surrogates								
Toluene-d8 (S)	108	%.	75-125	1	04/17/25 11:03	04/17/25 21:36	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1	04/17/25 11:03	04/17/25 21:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	04/17/25 11:03	04/17/25 21:36	2199-69-1	

Sample: P-5 (8-10) **Lab ID: 10730729007** Collected: 04/09/25 15:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	**129**	mg/kg	9.7	1	04/21/25 08:18	04/23/25 21:02		
Surrogates								
n-Tetracosane (S)	108	%	10-154	1	04/21/25 08:18	04/23/25 21:02	646-31-1	
p-Terphenyl (S)	107	%	55-128	1	04/21/25 08:18	04/23/25 21:02	92-94-4	
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0154	26.5	04/09/25 15:10	04/22/25 16:07	71-43-2	
Ethylbenzene	ND	mg/kg	0.0154	26.5	04/09/25 15:10	04/22/25 16:07	100-41-4	
Gasoline Range Organics	ND	mg/kg	3.07	26.5	04/09/25 15:10	04/22/25 16:07		
Methyl-tert-butyl ether	ND	mg/kg	0.154	26.5	04/09/25 15:10	04/22/25 16:07	1634-04-4	
Toluene	ND	mg/kg	0.154	26.5	04/09/25 15:10	04/22/25 16:07	108-88-3	
Xylene (Total)	ND	mg/kg	0.0460	26.5	04/09/25 15:10	04/22/25 16:07	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	101	%	77.0-120	26.5	04/09/25 15:10	04/22/25 16:07	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	104	%	72.0-128	26.5	04/09/25 15:10	04/22/25 16:07	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.4**	%	0.10	1		04/13/25 09:55		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1420	1	04/17/25 11:03	04/17/25 21:52	67-64-1	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-5 (8-10) **Lab ID: 10730729007** Collected: 04/09/25 15:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Allyl chloride	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	107-05-1	
Benzene	ND	ug/kg	28.4	1	04/17/25 11:03	04/17/25 21:52	71-43-2	
Bromobenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	108-86-1	
Bromochloromethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	74-97-5	
Bromodichloromethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	75-27-4	
Bromoform	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	75-25-2	
Bromomethane	ND	ug/kg	709	1	04/17/25 11:03	04/17/25 21:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	354	1	04/17/25 11:03	04/17/25 21:52	78-93-3	
n-Butylbenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	56-23-5	
Chlorobenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	108-90-7	
Chloroethane	ND	ug/kg	709	1	04/17/25 11:03	04/17/25 21:52	75-00-3	
Chloroform	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	67-66-3	
Chloromethane	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	709	1	04/17/25 11:03	04/17/25 21:52	96-12-8	
Dibromochloromethane	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	106-93-4	
Dibromomethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	156-60-5	
Dichlorofluoromethane	ND	ug/kg	709	1	04/17/25 11:03	04/17/25 21:52	75-43-4	
1,2-Dichloropropane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	60-29-7	
Ethylbenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	354	1	04/17/25 11:03	04/17/25 21:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	99-87-6	
Methylene Chloride	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	354	1	04/17/25 11:03	04/17/25 21:52	108-10-1	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-5 (8-10) **Lab ID: 10730729007** Collected: 04/09/25 15:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	1634-04-4	
Naphthalene	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	91-20-3	
n-Propylbenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	103-65-1	
Styrene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	79-34-5	
Tetrachloroethene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	127-18-4	
Tetrahydrofuran	ND	ug/kg	2840	1	04/17/25 11:03	04/17/25 21:52	109-99-9	
Toluene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	79-00-5	
Trichloroethene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	284	1	04/17/25 11:03	04/17/25 21:52	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	108-67-8	
Vinyl chloride	ND	ug/kg	28.4	1	04/17/25 11:03	04/17/25 21:52	75-01-4	
Xylene (Total)	ND	ug/kg	213	1	04/17/25 11:03	04/17/25 21:52	1330-20-7	
m&p-Xylene	ND	ug/kg	142	1	04/17/25 11:03	04/17/25 21:52	179601-23-1	
o-Xylene	ND	ug/kg	70.9	1	04/17/25 11:03	04/17/25 21:52	95-47-6	
Surrogates								
Toluene-d8 (S)	111	%.	75-125	1	04/17/25 11:03	04/17/25 21:52	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	04/17/25 11:03	04/17/25 21:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	04/17/25 11:03	04/17/25 21:52	2199-69-1	
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:03	763051-92-9	
3:3 FTCA	ND	ug/kg	0.98	1	04/18/25 12:01	04/21/25 16:03	356-02-5	
4:2 FTS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:03	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1	04/18/25 12:01	04/21/25 16:03	914637-49-3	
6:2 FTS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:03	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1	04/18/25 12:01	04/21/25 16:03	812-70-4	
8:2 FTS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:03	39108-34-4	
9Cl-PF3ONS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:03	756426-58-1	
ADONA	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:03	919005-14-4	
HFPO-DA	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:03	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	04/18/25 12:01	04/21/25 16:03	1691-99-2	
NFDHA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:03	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	2355-31-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-5 (8-10) **Lab ID: 10730729007** Collected: 04/09/25 15:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
NMeFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	04/18/25 12:01	04/21/25 16:03	24448-09-7	
PFBS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	375-73-5	
PFDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	335-76-2	
PFHxA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	307-24-4	
PFBA	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:03	375-22-4	
PFDS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	335-77-3	
PFDoS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	79780-39-5	
PFEESA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:03	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	375-92-8	
PFMBA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:03	863090-89-5	
PFMPA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:03	377-73-1	
PFNS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	754-91-6	
PFPeA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:03	2706-90-3	
PFPeS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	307-55-1	
PFHpA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	375-85-9	
PFHxS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	355-46-4	
PFNA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	375-95-1	
PFOS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	1763-23-1	
PFOA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	376-06-7	
PFTrDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:03	2058-94-8	
Surrogates								
13C2-PFDoA (S)	72	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C3HFPO-DA (S)	76	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C3-PFBS (S)	81	%.	40-135	1	04/18/25 12:01	04/21/25 16:03		
13C3-PFHxS (S)	77	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C4-PFBA (S)	58	%.	8-130	1	04/18/25 12:01	04/21/25 16:03		
13C4-PFHpA (S)	71	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C5-PFHxA (S)	76	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C5-PFPeA (S)	80	%.	35-130	1	04/18/25 12:01	04/21/25 16:03		
13C6-PFDA (S)	78	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C8-PFOA (S)	79	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C8-PFOS (S)	78	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C8-PFOSA (S)	78	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C9-PFNA (S)	75	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
d3-MeFOSAA (S)	79	%.	40-135	1	04/18/25 12:01	04/21/25 16:03		
d3-NMeFOSA (S)	78	%.	10-130	1	04/18/25 12:01	04/21/25 16:03		
d5-EtFOSAA (S)	80	%.	40-150	1	04/18/25 12:01	04/21/25 16:03		
d5-NEtFOSA (S)	74	%.	10-130	1	04/18/25 12:01	04/21/25 16:03		
d7-NMeFOSE (S)	81	%.	20-130	1	04/18/25 12:01	04/21/25 16:03		
d9-NEtFOSE (S)	77	%.	15-130	1	04/18/25 12:01	04/21/25 16:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-5 (8-10) **Lab ID: 10730729007** Collected: 04/09/25 15:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
Surrogates								
13C2-PFTA (S)	68	%.	20-130	1	04/18/25 12:01	04/21/25 16:03		
13C7-PFUdA (S)	82	%.	40-130	1	04/18/25 12:01	04/21/25 16:03		
13C24:2FTS (S)	84	%.	40-135	1	04/18/25 12:01	04/21/25 16:03		
13C26:2FTS (S)	85	%.	40-215	1	04/18/25 12:01	04/21/25 16:03		
13C28:2FTS (S)	85	%.	40-275	1	04/18/25 12:01	04/21/25 16:03		
13C3-PFPrA (S)	41	%.	8-130	1	04/18/25 12:01	04/21/25 16:03		

Sample: P-5 (14-16) **Lab ID: 10730729008** Collected: 04/09/25 15:15 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	10	1	04/21/25 08:18	04/23/25 21:26		
Surrogates								
n-Tetracosane (S)	78	%	10-154	1	04/21/25 08:18	04/23/25 21:26	646-31-1	
p-Terphenyl (S)	89	%	55-128	1	04/21/25 08:18	04/23/25 21:26	92-94-4	
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0135	25	04/09/25 15:15	04/22/25 16:29	71-43-2	
Ethylbenzene	ND	mg/kg	0.0135	25	04/09/25 15:15	04/22/25 16:29	100-41-4	
Gasoline Range Organics	ND	mg/kg	2.70	25	04/09/25 15:15	04/22/25 16:29		
Methyl-tert-butyl ether	ND	mg/kg	0.135	25	04/09/25 15:15	04/22/25 16:29	1634-04-4	
Toluene	ND	mg/kg	0.135	25	04/09/25 15:15	04/22/25 16:29	108-88-3	
Xylene (Total)	ND	mg/kg	0.0405	25	04/09/25 15:15	04/22/25 16:29	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	101	%	77.0-120	25	04/09/25 15:15	04/22/25 16:29	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	103	%	72.0-128	25	04/09/25 15:15	04/22/25 16:29	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**3.8**	%	0.10	1		04/13/25 09:59		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1210	1	04/17/25 11:03	04/17/25 22:26	67-64-1	
Allyl chloride	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	107-05-1	
Benzene	ND	ug/kg	24.1	1	04/17/25 11:03	04/17/25 22:26	71-43-2	
Bromobenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	108-86-1	
Bromochloromethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	74-97-5	
Bromodichloromethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	75-27-4	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-5 (14-16) **Lab ID: 10730729008** Collected: 04/09/25 15:15 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Bromoform	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	75-25-2	
Bromomethane	ND	ug/kg	604	1	04/17/25 11:03	04/17/25 22:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	302	1	04/17/25 11:03	04/17/25 22:26	78-93-3	
n-Butylbenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	98-06-6	
Carbon tetrachloride	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	56-23-5	
Chlorobenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	108-90-7	
Chloroethane	ND	ug/kg	604	1	04/17/25 11:03	04/17/25 22:26	75-00-3	
Chloroform	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	67-66-3	
Chloromethane	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	604	1	04/17/25 11:03	04/17/25 22:26	96-12-8	
Dibromochloromethane	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	106-93-4	
Dibromomethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	156-60-5	
Dichlorofluoromethane	ND	ug/kg	604	1	04/17/25 11:03	04/17/25 22:26	75-43-4	
1,2-Dichloropropane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	60-29-7	
Ethylbenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	302	1	04/17/25 11:03	04/17/25 22:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	99-87-6	
Methylene Chloride	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	302	1	04/17/25 11:03	04/17/25 22:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	1634-04-4	
Naphthalene	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	91-20-3	
n-Propylbenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	103-65-1	
Styrene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	630-20-6	

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(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-5 (14-16) **Lab ID: 10730729008** Collected: 04/09/25 15:15 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	79-34-5	
Tetrachloroethene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	127-18-4	
Tetrahydrofuran	ND	ug/kg	2410	1	04/17/25 11:03	04/17/25 22:26	109-99-9	
Toluene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	79-00-5	
Trichloroethene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	241	1	04/17/25 11:03	04/17/25 22:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	108-67-8	
Vinyl chloride	ND	ug/kg	24.1	1	04/17/25 11:03	04/17/25 22:26	75-01-4	
Xylene (Total)	ND	ug/kg	181	1	04/17/25 11:03	04/17/25 22:26	1330-20-7	
m&p-Xylene	ND	ug/kg	121	1	04/17/25 11:03	04/17/25 22:26	179601-23-1	
o-Xylene	ND	ug/kg	60.4	1	04/17/25 11:03	04/17/25 22:26	95-47-6	
Surrogates								
Toluene-d8 (S)	111	%.	75-125	1	04/17/25 11:03	04/17/25 22:26	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	04/17/25 11:03	04/17/25 22:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1	04/17/25 11:03	04/17/25 22:26	2199-69-1	
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:12	763051-92-9	
3:3 FTCA	ND	ug/kg	0.98	1	04/18/25 12:01	04/21/25 16:12	356-02-5	
4:2 FTS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:12	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1	04/18/25 12:01	04/21/25 16:12	914637-49-3	
6:2 FTS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:12	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1	04/18/25 12:01	04/21/25 16:12	812-70-4	
8:2 FTS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:12	39108-34-4	
9Cl-PF3ONS	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:12	756426-58-1	
ADONA	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:12	919005-14-4	
HFPO-DA	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:12	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	04/18/25 12:01	04/21/25 16:12	1691-99-2	
NFDHA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:12	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	04/18/25 12:01	04/21/25 16:12	24448-09-7	
PFBS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	375-73-5	
PFDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	335-76-2	
PFHxA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	307-24-4	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-5 (14-16) **Lab ID: 10730729008** Collected: 04/09/25 15:15 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
PFBA	ND	ug/kg	0.78	1	04/18/25 12:01	04/21/25 16:12	375-22-4	
PFDS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	335-77-3	
PFDoS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	79780-39-5	
PFEESA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:12	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	375-92-8	
PFMBA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:12	863090-89-5	
PFMPA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:12	377-73-1	
PFNS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	754-91-6	
PFPeA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:12	2706-90-3	
PFPeS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	307-55-1	
PFHpA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	375-85-9	
PFHxS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	355-46-4	
PFNA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	375-95-1	
PFOS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	1763-23-1	
PFOA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	376-06-7	
PFTrDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:12	2058-94-8	
Surrogates								
13C2-PFDoA (S)	85	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C3HFPO-DA (S)	80	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C3-PFBS (S)	86	%.	40-135	1	04/18/25 12:01	04/21/25 16:12		
13C3-PFHxS (S)	93	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C4-PFBA (S)	68	%.	8-130	1	04/18/25 12:01	04/21/25 16:12		
13C4-PFHpA (S)	83	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C5-PFHxA (S)	82	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C5-PFPeA (S)	81	%.	35-130	1	04/18/25 12:01	04/21/25 16:12		
13C6-PFDA (S)	89	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C8-PFOA (S)	95	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C8-PFOS (S)	85	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C8-PFOSA (S)	85	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C9-PFNA (S)	91	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
d3-MeFOSAA (S)	87	%.	40-135	1	04/18/25 12:01	04/21/25 16:12		
d3-NMeFOSA (S)	84	%.	10-130	1	04/18/25 12:01	04/21/25 16:12		
d5-EtFOSAA (S)	91	%.	40-150	1	04/18/25 12:01	04/21/25 16:12		
d5-NEtFOSA (S)	82	%.	10-130	1	04/18/25 12:01	04/21/25 16:12		
d7-NMeFOSE (S)	78	%.	20-130	1	04/18/25 12:01	04/21/25 16:12		
d9-NEtFOSE (S)	74	%.	15-130	1	04/18/25 12:01	04/21/25 16:12		
13C2-PFTA (S)	74	%.	20-130	1	04/18/25 12:01	04/21/25 16:12		
13C7-PFUdA (S)	93	%.	40-130	1	04/18/25 12:01	04/21/25 16:12		
13C24:2FTS (S)	90	%.	40-135	1	04/18/25 12:01	04/21/25 16:12		
13C26:2FTS (S)	95	%.	40-215	1	04/18/25 12:01	04/21/25 16:12		
13C28:2FTS (S)	102	%.	40-275	1	04/18/25 12:01	04/21/25 16:12		

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-5 (14-16) **Lab ID: 10730729008** Collected: 04/09/25 15:15 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
Surrogates								
13C3-PFPrA (S)	51	%.	8-130	1	04/18/25 12:01	04/21/25 16:12		

Sample: P-6 (6-8) **Lab ID: 10730729009** Collected: 04/09/25 17:55 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	9.9	1	04/21/25 08:18	04/23/25 21:34		
Surrogates								
n-Tetracosane (S)	77	%	10-154	1	04/21/25 08:18	04/23/25 21:34	646-31-1	
p-Terphenyl (S)	90	%	55-128	1	04/21/25 08:18	04/23/25 21:34	92-94-4	
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0154	25.3	04/09/25 17:55	04/22/25 16:50	71-43-2	
Ethylbenzene	ND	mg/kg	0.0154	25.3	04/09/25 17:55	04/22/25 16:50	100-41-4	
Gasoline Range Organics	ND	mg/kg	3.06	25.3	04/09/25 17:55	04/22/25 16:50		
Methyl-tert-butyl ether	ND	mg/kg	0.154	25.3	04/09/25 17:55	04/22/25 16:50	1634-04-4	
Toluene	ND	mg/kg	0.154	25.3	04/09/25 17:55	04/22/25 16:50	108-88-3	
Xylene (Total)	ND	mg/kg	0.0460	25.3	04/09/25 17:55	04/22/25 16:50	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	101	%	77.0-120	25.3	04/09/25 17:55	04/22/25 16:50	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	104	%	72.0-128	25.3	04/09/25 17:55	04/22/25 16:50	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.6**	%	0.10	1		04/13/25 10:00		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1280	1	04/17/25 11:03	04/17/25 22:42	67-64-1	
Allyl chloride	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	107-05-1	
Benzene	ND	ug/kg	25.5	1	04/17/25 11:03	04/17/25 22:42	71-43-2	
Bromobenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	108-86-1	
Bromochloromethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	74-97-5	
Bromodichloromethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	75-27-4	
Bromoform	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	75-25-2	
Bromomethane	ND	ug/kg	638	1	04/17/25 11:03	04/17/25 22:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	319	1	04/17/25 11:03	04/17/25 22:42	78-93-3	
n-Butylbenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	135-98-8	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-6 (6-8) **Lab ID: 10730729009** Collected: 04/09/25 17:55 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
tert-Butylbenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	98-06-6	
Carbon tetrachloride	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	56-23-5	
Chlorobenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	108-90-7	
Chloroethane	ND	ug/kg	638	1	04/17/25 11:03	04/17/25 22:42	75-00-3	
Chloroform	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	67-66-3	
Chloromethane	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	638	1	04/17/25 11:03	04/17/25 22:42	96-12-8	
Dibromochloromethane	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	106-93-4	
Dibromomethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	156-60-5	
Dichlorofluoromethane	ND	ug/kg	638	1	04/17/25 11:03	04/17/25 22:42	75-43-4	
1,2-Dichloropropane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	60-29-7	
Ethylbenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	319	1	04/17/25 11:03	04/17/25 22:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	99-87-6	
Methylene Chloride	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	319	1	04/17/25 11:03	04/17/25 22:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	1634-04-4	
Naphthalene	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	91-20-3	
n-Propylbenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	103-65-1	
Styrene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	79-34-5	
Tetrachloroethene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	127-18-4	
Tetrahydrofuran	ND	ug/kg	2550	1	04/17/25 11:03	04/17/25 22:42	109-99-9	
Toluene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	87-61-6	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-6 (6-8) **Lab ID: 10730729009** Collected: 04/09/25 17:55 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trichlorobenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	79-00-5	
Trichloroethene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	255	1	04/17/25 11:03	04/17/25 22:42	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	108-67-8	
Vinyl chloride	ND	ug/kg	25.5	1	04/17/25 11:03	04/17/25 22:42	75-01-4	
Xylene (Total)	ND	ug/kg	191	1	04/17/25 11:03	04/17/25 22:42	1330-20-7	
m&p-Xylene	ND	ug/kg	128	1	04/17/25 11:03	04/17/25 22:42	179601-23-1	
o-Xylene	ND	ug/kg	63.8	1	04/17/25 11:03	04/17/25 22:42	95-47-6	
Surrogates								
Toluene-d8 (S)	110	%.	75-125	1	04/17/25 11:03	04/17/25 22:42	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	04/17/25 11:03	04/17/25 22:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	04/17/25 11:03	04/17/25 22:42	2199-69-1	

Sample: P-6 (14-16) **Lab ID: 10730729010** Collected: 04/09/25 18:00 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	10	1	04/21/25 08:18	04/23/25 21:42		
Surrogates								
n-Tetracosane (S)	83	%	10-154	1	04/21/25 08:18	04/23/25 21:42	646-31-1	
p-Terphenyl (S)	95	%	55-128	1	04/21/25 08:18	04/23/25 21:42	92-94-4	
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0141	26.3	04/09/25 18:00	04/22/25 17:11	71-43-2	
Ethylbenzene	ND	mg/kg	0.0141	26.3	04/09/25 18:00	04/22/25 17:11	100-41-4	
Gasoline Range Organics	ND	mg/kg	2.83	26.3	04/09/25 18:00	04/22/25 17:11		
Methyl-tert-butyl ether	ND	mg/kg	0.141	26.3	04/09/25 18:00	04/22/25 17:11	1634-04-4	
Toluene	ND	mg/kg	0.141	26.3	04/09/25 18:00	04/22/25 17:11	108-88-3	
Xylene (Total)	ND	mg/kg	0.0423	26.3	04/09/25 18:00	04/22/25 17:11	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	101	%	77.0-120	26.3	04/09/25 18:00	04/22/25 17:11	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	103	%	72.0-128	26.3	04/09/25 18:00	04/22/25 17:11	98-08-8PID	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-6 (14-16) **Lab ID: 10730729010** Collected: 04/09/25 18:00 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**3.7**	%	0.10	1		04/13/25 10:01		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1140	1	04/17/25 11:03	04/17/25 22:59	67-64-1	
Allyl chloride	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	107-05-1	
Benzene	ND	ug/kg	22.8	1	04/17/25 11:03	04/17/25 22:59	71-43-2	
Bromobenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	108-86-1	
Bromochloromethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	74-97-5	
Bromodichloromethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	75-27-4	
Bromoform	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	75-25-2	
Bromomethane	ND	ug/kg	570	1	04/17/25 11:03	04/17/25 22:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	285	1	04/17/25 11:03	04/17/25 22:59	78-93-3	
n-Butylbenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	56-23-5	
Chlorobenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	108-90-7	
Chloroethane	ND	ug/kg	570	1	04/17/25 11:03	04/17/25 22:59	75-00-3	
Chloroform	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	67-66-3	
Chloromethane	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	570	1	04/17/25 11:03	04/17/25 22:59	96-12-8	
Dibromochloromethane	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	106-93-4	
Dibromomethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	156-60-5	
Dichlorofluoromethane	ND	ug/kg	570	1	04/17/25 11:03	04/17/25 22:59	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	60-29-7	
Ethylbenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	100-41-4	

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(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-6 (14-16) **Lab ID: 10730729010** Collected: 04/09/25 18:00 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Hexachloro-1,3-butadiene	ND	ug/kg	285	1	04/17/25 11:03	04/17/25 22:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	99-87-6	
Methylene Chloride	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	285	1	04/17/25 11:03	04/17/25 22:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	1634-04-4	
Naphthalene	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	91-20-3	
n-Propylbenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	103-65-1	
Styrene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	79-34-5	
Tetrachloroethene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	127-18-4	
Tetrahydrofuran	ND	ug/kg	2280	1	04/17/25 11:03	04/17/25 22:59	109-99-9	
Toluene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	79-00-5	
Trichloroethene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 22:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	108-67-8	
Vinyl chloride	ND	ug/kg	22.8	1	04/17/25 11:03	04/17/25 22:59	75-01-4	
Xylene (Total)	ND	ug/kg	171	1	04/17/25 11:03	04/17/25 22:59	1330-20-7	
m&p-Xylene	ND	ug/kg	114	1	04/17/25 11:03	04/17/25 22:59	179601-23-1	
o-Xylene	ND	ug/kg	57.0	1	04/17/25 11:03	04/17/25 22:59	95-47-6	
Surrogates								
Toluene-d8 (S)	109	%.	75-125	1	04/17/25 11:03	04/17/25 22:59	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1	04/17/25 11:03	04/17/25 22:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	04/17/25 11:03	04/17/25 22:59	2199-69-1	

Sample: P-7 (8-10) **Lab ID: 10730729011** Collected: 04/09/25 18:25 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	29.4	1	04/21/25 08:18	04/23/25 21:50		
Surrogates								
n-Tetracosane (S)	80	%	10-154	1	04/21/25 08:18	04/23/25 21:50	646-31-1	
p-Terphenyl (S)	93	%	55-128	1	04/21/25 08:18	04/23/25 21:50	92-94-4	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-7 (8-10) **Lab ID: 10730729011** Collected: 04/09/25 18:25 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1							
	Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0193	25	04/09/25 18:25	04/22/25 17:33	71-43-2	
Ethylbenzene	ND	mg/kg	0.0193	25	04/09/25 18:25	04/22/25 17:33	100-41-4	
Gasoline Range Organics	ND	mg/kg	3.87	25	04/09/25 18:25	04/22/25 17:33		
Methyl-tert-butyl ether	ND	mg/kg	0.193	25	04/09/25 18:25	04/22/25 17:33	1634-04-4	
Toluene	ND	mg/kg	0.193	25	04/09/25 18:25	04/22/25 17:33	108-88-3	
Xylene (Total)	ND	mg/kg	0.0580	25	04/09/25 18:25	04/22/25 17:33	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	101	%	77.0-120	25	04/09/25 18:25	04/22/25 17:33	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	103	%	72.0-128	25	04/09/25 18:25	04/22/25 17:33	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
	Pace Analytical Services - Minneapolis							
Percent Moisture	**20.6**	%	0.10	1		04/13/25 10:03		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1520	1	04/17/25 11:03	04/17/25 23:15	67-64-1	
Allyl chloride	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	107-05-1	
Benzene	ND	ug/kg	30.4	1	04/17/25 11:03	04/17/25 23:15	71-43-2	
Bromobenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	108-86-1	
Bromochloromethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	74-97-5	
Bromodichloromethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	75-27-4	
Bromoform	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	75-25-2	
Bromomethane	ND	ug/kg	760	1	04/17/25 11:03	04/17/25 23:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	380	1	04/17/25 11:03	04/17/25 23:15	78-93-3	
n-Butylbenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	56-23-5	
Chlorobenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	108-90-7	
Chloroethane	ND	ug/kg	760	1	04/17/25 11:03	04/17/25 23:15	75-00-3	
Chloroform	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	67-66-3	
Chloromethane	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	760	1	04/17/25 11:03	04/17/25 23:15	96-12-8	
Dibromochloromethane	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	106-93-4	
Dibromomethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	107-06-2	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-7 (8-10) **Lab ID: 10730729011** Collected: 04/09/25 18:25 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,1-Dichloroethene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	156-60-5	
Dichlorofluoromethane	ND	ug/kg	760	1	04/17/25 11:03	04/17/25 23:15	75-43-4	
1,2-Dichloropropane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	60-29-7	
Ethylbenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	380	1	04/17/25 11:03	04/17/25 23:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	99-87-6	
Methylene Chloride	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	380	1	04/17/25 11:03	04/17/25 23:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	1634-04-4	
Naphthalene	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	91-20-3	
n-Propylbenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	103-65-1	
Styrene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	79-34-5	
Tetrachloroethene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	127-18-4	
Tetrahydrofuran	ND	ug/kg	3040	1	04/17/25 11:03	04/17/25 23:15	109-99-9	
Toluene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	79-00-5	
Trichloroethene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	304	1	04/17/25 11:03	04/17/25 23:15	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	108-67-8	
Vinyl chloride	ND	ug/kg	30.4	1	04/17/25 11:03	04/17/25 23:15	75-01-4	
Xylene (Total)	ND	ug/kg	228	1	04/17/25 11:03	04/17/25 23:15	1330-20-7	
m&p-Xylene	ND	ug/kg	152	1	04/17/25 11:03	04/17/25 23:15	179601-23-1	
o-Xylene	ND	ug/kg	76.0	1	04/17/25 11:03	04/17/25 23:15	95-47-6	
Surrogates								
Toluene-d8 (S)	109	%.	75-125	1	04/17/25 11:03	04/17/25 23:15	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1	04/17/25 11:03	04/17/25 23:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	04/17/25 11:03	04/17/25 23:15	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-7 (14-16) **Lab ID: 10730729012** Collected: 04/09/25 18:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	9.9	1	04/21/25 08:18	04/23/25 21:58		
Surrogates								
n-Tetracosane (S)	82	%	10-154	1	04/21/25 08:18	04/23/25 21:58	646-31-1	
p-Terphenyl (S)	94	%	55-128	1	04/21/25 08:18	04/23/25 21:58	92-94-4	
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0144	25	04/09/25 18:30	04/22/25 17:54	71-43-2	
Ethylbenzene	ND	mg/kg	0.0144	25	04/09/25 18:30	04/22/25 17:54	100-41-4	
Gasoline Range Organics	ND	mg/kg	2.88	25	04/09/25 18:30	04/22/25 17:54		
Methyl-tert-butyl ether	ND	mg/kg	0.144	25	04/09/25 18:30	04/22/25 17:54	1634-04-4	
Toluene	ND	mg/kg	0.144	25	04/09/25 18:30	04/22/25 17:54	108-88-3	
Xylene (Total)	ND	mg/kg	0.0432	25	04/09/25 18:30	04/22/25 17:54	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	100	%	77.0-120	25	04/09/25 18:30	04/22/25 17:54	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	103	%	72.0-128	25	04/09/25 18:30	04/22/25 17:54	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**6.9**	%	0.10	1		04/13/25 10:05		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1150	1	04/17/25 11:03	04/18/25 19:10	67-64-1	
Allyl chloride	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	107-05-1	
Benzene	ND	ug/kg	23.1	1	04/17/25 11:03	04/18/25 19:10	71-43-2	
Bromobenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	108-86-1	
Bromochloromethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	74-97-5	
Bromodichloromethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	75-27-4	
Bromoform	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	75-25-2	
Bromomethane	ND	ug/kg	577	1	04/17/25 11:03	04/18/25 19:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	288	1	04/17/25 11:03	04/18/25 19:10	78-93-3	
n-Butylbenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	56-23-5	
Chlorobenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	108-90-7	
Chloroethane	ND	ug/kg	577	1	04/17/25 11:03	04/18/25 19:10	75-00-3	
Chloroform	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	67-66-3	
Chloromethane	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	577	1	04/17/25 11:03	04/18/25 19:10	96-12-8	
Dibromochloromethane	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	106-93-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-7 (14-16) **Lab ID: 10730729012** Collected: 04/09/25 18:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Dibromomethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	156-60-5	
Dichlorofluoromethane	ND	ug/kg	577	1	04/17/25 11:03	04/18/25 19:10	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	60-29-7	
Ethylbenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	288	1	04/17/25 11:03	04/18/25 19:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	99-87-6	
Methylene Chloride	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	288	1	04/17/25 11:03	04/18/25 19:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	1634-04-4	
Naphthalene	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	91-20-3	
n-Propylbenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	103-65-1	
Styrene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	79-34-5	
Tetrachloroethene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	127-18-4	
Tetrahydrofuran	ND	ug/kg	2310	1	04/17/25 11:03	04/18/25 19:10	109-99-9	
Toluene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	79-00-5	
Trichloroethene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	231	1	04/17/25 11:03	04/18/25 19:10	76-13-1	SS
1,2,4-Trimethylbenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	108-67-8	
Vinyl chloride	ND	ug/kg	23.1	1	04/17/25 11:03	04/18/25 19:10	75-01-4	
Xylene (Total)	ND	ug/kg	173	1	04/17/25 11:03	04/18/25 19:10	1330-20-7	

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-7 (14-16) **Lab ID: 10730729012** Collected: 04/09/25 18:30 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
m&p-Xylene	ND	ug/kg	115	1	04/17/25 11:03	04/18/25 19:10	179601-23-1	
o-Xylene	ND	ug/kg	57.7	1	04/17/25 11:03	04/18/25 19:10	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%.	75-125	1	04/17/25 11:03	04/18/25 19:10	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	04/17/25 11:03	04/18/25 19:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1	04/17/25 11:03	04/18/25 19:10	2199-69-1	

Sample: P-8 (4-6) **Lab ID: 10730729013** Collected: 04/09/25 18:40 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	9.8	1	04/21/25 08:18	04/23/25 22:06		
Surrogates								
n-Tetracosane (S)	79	%	10-154	1	04/21/25 08:18	04/23/25 22:06	646-31-1	
p-Terphenyl (S)	91	%	55-128	1	04/21/25 08:18	04/23/25 22:06	92-94-4	
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0155	25	04/09/25 18:40	04/23/25 17:06	71-43-2	
Ethylbenzene	ND	mg/kg	0.0155	25	04/09/25 18:40	04/23/25 17:06	100-41-4	
Gasoline Range Organics	ND	mg/kg	3.10	25	04/09/25 18:40	04/23/25 17:06		
Methyl-tert-butyl ether	ND	mg/kg	0.155	25	04/09/25 18:40	04/23/25 17:06	1634-04-4	
Toluene	ND	mg/kg	0.155	25	04/09/25 18:40	04/23/25 17:06	108-88-3	
Xylene (Total)	ND	mg/kg	0.0465	25	04/09/25 18:40	04/23/25 17:06	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	102	%	77.0-120	25	04/09/25 18:40	04/23/25 17:06	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	105	%	72.0-128	25	04/09/25 18:40	04/23/25 17:06	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.2**	%	0.10	1		04/13/25 10:06		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1190	1	04/17/25 11:03	04/17/25 23:32	67-64-1	
Allyl chloride	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	107-05-1	
Benzene	ND	ug/kg	23.8	1	04/17/25 11:03	04/17/25 23:32	71-43-2	
Bromobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	108-86-1	
Bromochloromethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	74-97-5	
Bromodichloromethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	75-27-4	
Bromoform	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	75-25-2	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-8 (4-6) **Lab ID: 10730729013** Collected: 04/09/25 18:40 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Bromomethane	ND	ug/kg	595	1	04/17/25 11:03	04/17/25 23:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	297	1	04/17/25 11:03	04/17/25 23:32	78-93-3	
n-Butylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	56-23-5	
Chlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	108-90-7	
Chloroethane	ND	ug/kg	595	1	04/17/25 11:03	04/17/25 23:32	75-00-3	
Chloroform	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	67-66-3	
Chloromethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	595	1	04/17/25 11:03	04/17/25 23:32	96-12-8	
Dibromochloromethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	106-93-4	
Dibromomethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	156-60-5	
Dichlorofluoromethane	ND	ug/kg	595	1	04/17/25 11:03	04/17/25 23:32	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	60-29-7	
Ethylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	297	1	04/17/25 11:03	04/17/25 23:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	99-87-6	
Methylene Chloride	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	297	1	04/17/25 11:03	04/17/25 23:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	1634-04-4	
Naphthalene	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	91-20-3	
n-Propylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	103-65-1	
Styrene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	79-34-5	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-8 (4-6) **Lab ID: 10730729013** Collected: 04/09/25 18:40 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Tetrachloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	127-18-4	
Tetrahydrofuran	ND	ug/kg	2380	1	04/17/25 11:03	04/17/25 23:32	109-99-9	
Toluene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	79-00-5	
Trichloroethene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	238	1	04/17/25 11:03	04/17/25 23:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	108-67-8	
Vinyl chloride	ND	ug/kg	23.8	1	04/17/25 11:03	04/17/25 23:32	75-01-4	
Xylene (Total)	ND	ug/kg	178	1	04/17/25 11:03	04/17/25 23:32	1330-20-7	
m&p-Xylene	ND	ug/kg	119	1	04/17/25 11:03	04/17/25 23:32	179601-23-1	
o-Xylene	ND	ug/kg	59.5	1	04/17/25 11:03	04/17/25 23:32	95-47-6	
Surrogates								
Toluene-d8 (S)	109	%.	75-125	1	04/17/25 11:03	04/17/25 23:32	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1	04/17/25 11:03	04/17/25 23:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	04/17/25 11:03	04/17/25 23:32	2199-69-1	

Sample: P-8 (14-16) **Lab ID: 10730729014** Collected: 04/09/25 18:45 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	9.7	1	04/21/25 08:18	04/23/25 22:14		
Surrogates								
n-Tetracosane (S)	81	%	10-154	1	04/21/25 08:18	04/23/25 22:14	646-31-1	
p-Terphenyl (S)	93	%	55-128	1	04/21/25 08:18	04/23/25 22:14	92-94-4	
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0136	25	04/09/25 18:45	04/23/25 17:29	71-43-2	
Ethylbenzene	ND	mg/kg	0.0136	25	04/09/25 18:45	04/23/25 17:29	100-41-4	
Gasoline Range Organics	ND	mg/kg	2.71	25	04/09/25 18:45	04/23/25 17:29		
Methyl-tert-butyl ether	ND	mg/kg	0.136	25	04/09/25 18:45	04/23/25 17:29	1634-04-4	
Toluene	ND	mg/kg	0.136	25	04/09/25 18:45	04/23/25 17:29	108-88-3	
Xylene (Total)	ND	mg/kg	0.0407	25	04/09/25 18:45	04/23/25 17:29	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	101	%	77.0-120	25	04/09/25 18:45	04/23/25 17:29	98-08-8FID	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-8 (14-16) **Lab ID: 10730729014** Collected: 04/09/25 18:45 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Surrogates								
a,a,a-Trifluorotoluene (PID)	105	%	72.0-128	25	04/09/25 18:45	04/23/25 17:29	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**3.9**	%	0.10	1		04/13/25 10:07		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1020	1	04/17/25 11:03	04/17/25 23:49	67-64-1	
Allyl chloride	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	107-05-1	
Benzene	ND	ug/kg	20.5	1	04/17/25 11:03	04/17/25 23:49	71-43-2	
Bromobenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	108-86-1	
Bromochloromethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	74-97-5	
Bromodichloromethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	75-27-4	
Bromoform	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	75-25-2	
Bromomethane	ND	ug/kg	512	1	04/17/25 11:03	04/17/25 23:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	256	1	04/17/25 11:03	04/17/25 23:49	78-93-3	
n-Butylbenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	56-23-5	
Chlorobenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	108-90-7	
Chloroethane	ND	ug/kg	512	1	04/17/25 11:03	04/17/25 23:49	75-00-3	
Chloroform	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	67-66-3	
Chloromethane	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	512	1	04/17/25 11:03	04/17/25 23:49	96-12-8	
Dibromochloromethane	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	106-93-4	
Dibromomethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	156-60-5	
Dichlorofluoromethane	ND	ug/kg	512	1	04/17/25 11:03	04/17/25 23:49	75-43-4	
1,2-Dichloropropane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	594-20-7	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-8 (14-16) **Lab ID: 10730729014** Collected: 04/09/25 18:45 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,1-Dichloropropene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	60-29-7	
Ethylbenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	256	1	04/17/25 11:03	04/17/25 23:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	99-87-6	
Methylene Chloride	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	256	1	04/17/25 11:03	04/17/25 23:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	1634-04-4	
Naphthalene	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	91-20-3	
n-Propylbenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	103-65-1	
Styrene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	79-34-5	
Tetrachloroethene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	127-18-4	
Tetrahydrofuran	ND	ug/kg	2050	1	04/17/25 11:03	04/17/25 23:49	109-99-9	
Toluene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	79-00-5	
Trichloroethene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	205	1	04/17/25 11:03	04/17/25 23:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	108-67-8	
Vinyl chloride	ND	ug/kg	20.5	1	04/17/25 11:03	04/17/25 23:49	75-01-4	
Xylene (Total)	ND	ug/kg	154	1	04/17/25 11:03	04/17/25 23:49	1330-20-7	
m&p-Xylene	ND	ug/kg	102	1	04/17/25 11:03	04/17/25 23:49	179601-23-1	
o-Xylene	ND	ug/kg	51.2	1	04/17/25 11:03	04/17/25 23:49	95-47-6	
Surrogates								
Toluene-d8 (S)	109	%.	75-125	1	04/17/25 11:03	04/17/25 23:49	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1	04/17/25 11:03	04/17/25 23:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	04/17/25 11:03	04/17/25 23:49	2199-69-1	

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(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-9 (8-10) **Lab ID: 10730729015** Collected: 04/09/25 19:00 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	10	1	04/21/25 08:18	04/23/25 22:22		
Surrogates								
n-Tetracosane (S)	80	%	10-154	1	04/21/25 08:18	04/23/25 22:22	646-31-1	
p-Terphenyl (S)	88	%	55-128	1	04/21/25 08:18	04/23/25 22:22	92-94-4	
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1 Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0150	26.5	04/09/25 19:00	04/23/25 17:51	71-43-2	
Ethylbenzene	ND	mg/kg	0.0150	26.5	04/09/25 19:00	04/23/25 17:51	100-41-4	
Gasoline Range Organics	ND	mg/kg	2.99	26.5	04/09/25 19:00	04/23/25 17:51		
Methyl-tert-butyl ether	ND	mg/kg	0.150	26.5	04/09/25 19:00	04/23/25 17:51	1634-04-4	
Toluene	ND	mg/kg	0.150	26.5	04/09/25 19:00	04/23/25 17:51	108-88-3	
Xylene (Total)	ND	mg/kg	0.0449	26.5	04/09/25 19:00	04/23/25 17:51	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	100	%	77.0-120	26.5	04/09/25 19:00	04/23/25 17:51	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	105	%	72.0-128	26.5	04/09/25 19:00	04/23/25 17:51	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**6.2**	%	0.10	1		04/13/25 10:09		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1190	1	04/17/25 11:03	04/18/25 00:05	67-64-1	
Allyl chloride	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	107-05-1	
Benzene	ND	ug/kg	23.7	1	04/17/25 11:03	04/18/25 00:05	71-43-2	
Bromobenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	108-86-1	
Bromochloromethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	74-97-5	
Bromodichloromethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	75-27-4	
Bromoform	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	75-25-2	
Bromomethane	ND	ug/kg	593	1	04/17/25 11:03	04/18/25 00:05	74-83-9	
2-Butanone (MEK)	ND	ug/kg	297	1	04/17/25 11:03	04/18/25 00:05	78-93-3	
n-Butylbenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	56-23-5	
Chlorobenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	108-90-7	
Chloroethane	ND	ug/kg	593	1	04/17/25 11:03	04/18/25 00:05	75-00-3	
Chloroform	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	67-66-3	
Chloromethane	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	593	1	04/17/25 11:03	04/18/25 00:05	96-12-8	
Dibromochloromethane	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	106-93-4	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-9 (8-10) **Lab ID: 10730729015** Collected: 04/09/25 19:00 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Dibromomethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	156-60-5	
Dichlorofluoromethane	ND	ug/kg	593	1	04/17/25 11:03	04/18/25 00:05	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	142-28-9	
2,2-Dichloropropane	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	60-29-7	
Ethylbenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	297	1	04/17/25 11:03	04/18/25 00:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	99-87-6	
Methylene Chloride	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	297	1	04/17/25 11:03	04/18/25 00:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	1634-04-4	
Naphthalene	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	91-20-3	
n-Propylbenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	103-65-1	
Styrene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	79-34-5	
Tetrachloroethene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	127-18-4	
Tetrahydrofuran	ND	ug/kg	2370	1	04/17/25 11:03	04/18/25 00:05	109-99-9	
Toluene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	79-00-5	
Trichloroethene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	237	1	04/17/25 11:03	04/18/25 00:05	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	108-67-8	
Vinyl chloride	ND	ug/kg	23.7	1	04/17/25 11:03	04/18/25 00:05	75-01-4	
Xylene (Total)	ND	ug/kg	178	1	04/17/25 11:03	04/18/25 00:05	1330-20-7	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-9 (8-10) **Lab ID: 10730729015** Collected: 04/09/25 19:00 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
m&p-Xylene	ND	ug/kg	119	1	04/17/25 11:03	04/18/25 00:05	179601-23-1	
o-Xylene	ND	ug/kg	59.3	1	04/17/25 11:03	04/18/25 00:05	95-47-6	
Surrogates								
Toluene-d8 (S)	109	%.	75-125	1	04/17/25 11:03	04/18/25 00:05	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	04/17/25 11:03	04/18/25 00:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1	04/17/25 11:03	04/18/25 00:05	2199-69-1	
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ug/kg	0.80	1	04/18/25 12:01	04/21/25 16:21	763051-92-9	
3:3 FTCA	ND	ug/kg	1.0	1	04/18/25 12:01	04/21/25 16:21	356-02-5	
4:2 FTS	ND	ug/kg	0.80	1	04/18/25 12:01	04/21/25 16:21	757124-72-4	
5:3 FTCA	ND	ug/kg	5.0	1	04/18/25 12:01	04/21/25 16:21	914637-49-3	
6:2 FTS	ND	ug/kg	0.80	1	04/18/25 12:01	04/21/25 16:21	27619-97-2	
7:3 FTCA	ND	ug/kg	5.0	1	04/18/25 12:01	04/21/25 16:21	812-70-4	
8:2 FTS	ND	ug/kg	0.80	1	04/18/25 12:01	04/21/25 16:21	39108-34-4	
9Cl-PF3ONS	ND	ug/kg	0.80	1	04/18/25 12:01	04/21/25 16:21	756426-58-1	
ADONA	ND	ug/kg	0.80	1	04/18/25 12:01	04/21/25 16:21	919005-14-4	
HFPO-DA	ND	ug/kg	0.80	1	04/18/25 12:01	04/21/25 16:21	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	04/18/25 12:01	04/21/25 16:21	1691-99-2	
NFDHA	ND	ug/kg	0.40	1	04/18/25 12:01	04/21/25 16:21	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	04/18/25 12:01	04/21/25 16:21	24448-09-7	
PFBS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	375-73-5	
PFDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	335-76-2	
PFHxA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	307-24-4	
PFBA	ND	ug/kg	0.80	1	04/18/25 12:01	04/21/25 16:21	375-22-4	
PFDS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	335-77-3	
PFDoS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	79780-39-5	
PFEESA	ND	ug/kg	0.40	1	04/18/25 12:01	04/21/25 16:21	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	375-92-8	
PFMBA	ND	ug/kg	0.40	1	04/18/25 12:01	04/21/25 16:21	863090-89-5	
PFMPA	ND	ug/kg	0.40	1	04/18/25 12:01	04/21/25 16:21	377-73-1	
PFNS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	754-91-6	
PFPeA	ND	ug/kg	0.40	1	04/18/25 12:01	04/21/25 16:21	2706-90-3	
PFPeS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	307-55-1	
PFHpA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	375-85-9	
PFHxS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	355-46-4	
PFNA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	375-95-1	
PFOS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	1763-23-1	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-9 (8-10) **Lab ID: 10730729015** Collected: 04/09/25 19:00 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
PFOA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	376-06-7	
PFTrDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:21	2058-94-8	
Surrogates								
13C2-PFDoA (S)	78	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C3HFPO-DA (S)	79	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C3-PFBS (S)	83	%.	40-135	1	04/18/25 12:01	04/21/25 16:21		
13C3-PFHxS (S)	82	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C4-PFBA (S)	63	%.	8-130	1	04/18/25 12:01	04/21/25 16:21		
13C4-PFHpA (S)	73	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C5-PFHxA (S)	77	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C5-PFPeA (S)	83	%.	35-130	1	04/18/25 12:01	04/21/25 16:21		
13C6-PFDA (S)	82	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C8-PFOA (S)	80	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C8-PFOS (S)	79	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C8-PFOSA (S)	78	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C9-PFNA (S)	83	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
d3-MeFOSAA (S)	77	%.	40-135	1	04/18/25 12:01	04/21/25 16:21		
d3-NMeFOSA (S)	78	%.	10-130	1	04/18/25 12:01	04/21/25 16:21		
d5-EtFOSAA (S)	84	%.	40-150	1	04/18/25 12:01	04/21/25 16:21		
d5-NEtFOSA (S)	76	%.	10-130	1	04/18/25 12:01	04/21/25 16:21		
d7-NMeFOSE (S)	70	%.	20-130	1	04/18/25 12:01	04/21/25 16:21		
d9-NEtFOSE (S)	68	%.	15-130	1	04/18/25 12:01	04/21/25 16:21		
13C2-PFTA (S)	69	%.	20-130	1	04/18/25 12:01	04/21/25 16:21		
13C7-PFUdA (S)	83	%.	40-130	1	04/18/25 12:01	04/21/25 16:21		
13C24:2FTS (S)	86	%.	40-135	1	04/18/25 12:01	04/21/25 16:21		
13C26:2FTS (S)	87	%.	40-215	1	04/18/25 12:01	04/21/25 16:21		
13C28:2FTS (S)	86	%.	40-275	1	04/18/25 12:01	04/21/25 16:21		
13C3-PFPrA (S)	40	%.	8-130	1	04/18/25 12:01	04/21/25 16:21		

Sample: P-9 (14-16) **Lab ID: 10730729016** Collected: 04/09/25 19:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	10.0	1	04/21/25 08:18	04/23/25 22:30		
Surrogates								
n-Tetracosane (S)	87	%	10-154	1	04/21/25 08:18	04/23/25 22:30	646-31-1	
p-Terphenyl (S)	96	%	55-128	1	04/21/25 08:18	04/23/25 22:30	92-94-4	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-9 (14-16) **Lab ID: 10730729016** Collected: 04/09/25 19:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) 8021/OA1	Analytical Method: OA1 Preparation Method: 8021/OA1							
	Pace National - Mt. Juliet							
Benzene	ND	mg/kg	0.0134	25	04/09/25 19:10	04/23/25 18:14	71-43-2	
Ethylbenzene	ND	mg/kg	0.0134	25	04/09/25 19:10	04/23/25 18:14	100-41-4	
Gasoline Range Organics	ND	mg/kg	2.67	25	04/09/25 19:10	04/23/25 18:14		
Methyl-tert-butyl ether	ND	mg/kg	0.134	25	04/09/25 19:10	04/23/25 18:14	1634-04-4	
Toluene	ND	mg/kg	0.134	25	04/09/25 19:10	04/23/25 18:14	108-88-3	
Xylene (Total)	ND	mg/kg	0.0401	25	04/09/25 19:10	04/23/25 18:14	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (FID)	100	%	77.0-120	25	04/09/25 19:10	04/23/25 18:14	98-08-8FID	
a,a,a-Trifluorotoluene (PID)	105	%	72.0-128	25	04/09/25 19:10	04/23/25 18:14	98-08-8PID	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
	Pace Analytical Services - Minneapolis							
Percent Moisture	**3.1**	%	0.10	1		04/13/25 10:10		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1780	1	04/17/25 11:03	04/18/25 19:27	67-64-1	
Allyl chloride	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	107-05-1	
Benzene	ND	ug/kg	35.6	1	04/17/25 11:03	04/18/25 19:27	71-43-2	
Bromobenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	108-86-1	
Bromochloromethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	74-97-5	
Bromodichloromethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	75-27-4	
Bromoform	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	75-25-2	
Bromomethane	ND	ug/kg	891	1	04/17/25 11:03	04/18/25 19:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	445	1	04/17/25 11:03	04/18/25 19:27	78-93-3	
n-Butylbenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	56-23-5	
Chlorobenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	108-90-7	
Chloroethane	ND	ug/kg	891	1	04/17/25 11:03	04/18/25 19:27	75-00-3	
Chloroform	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	67-66-3	
Chloromethane	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	891	1	04/17/25 11:03	04/18/25 19:27	96-12-8	
Dibromochloromethane	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	106-93-4	
Dibromomethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	107-06-2	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-9 (14-16) **Lab ID: 10730729016** Collected: 04/09/25 19:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,1-Dichloroethene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	156-60-5	
Dichlorofluoromethane	ND	ug/kg	891	1	04/17/25 11:03	04/18/25 19:27	75-43-4	
1,2-Dichloropropane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	60-29-7	
Ethylbenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	445	1	04/17/25 11:03	04/18/25 19:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	99-87-6	
Methylene Chloride	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	445	1	04/17/25 11:03	04/18/25 19:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	1634-04-4	
Naphthalene	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	91-20-3	
n-Propylbenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	103-65-1	
Styrene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	79-34-5	
Tetrachloroethene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	127-18-4	
Tetrahydrofuran	ND	ug/kg	3560	1	04/17/25 11:03	04/18/25 19:27	109-99-9	
Toluene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	79-00-5	
Trichloroethene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	356	1	04/17/25 11:03	04/18/25 19:27	76-13-1	SS
1,2,4-Trimethylbenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	108-67-8	
Vinyl chloride	ND	ug/kg	35.6	1	04/17/25 11:03	04/18/25 19:27	75-01-4	
Xylene (Total)	ND	ug/kg	267	1	04/17/25 11:03	04/18/25 19:27	1330-20-7	
m&p-Xylene	ND	ug/kg	178	1	04/17/25 11:03	04/18/25 19:27	179601-23-1	
o-Xylene	ND	ug/kg	89.1	1	04/17/25 11:03	04/18/25 19:27	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%.	75-125	1	04/17/25 11:03	04/18/25 19:27	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	04/17/25 11:03	04/18/25 19:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	04/17/25 11:03	04/18/25 19:27	2199-69-1	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-9 (14-16) **Lab ID: 10730729016** Collected: 04/09/25 19:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ug/kg	0.79	1	04/18/25 12:01	04/21/25 16:30	763051-92-9	
3:3 FTCA	ND	ug/kg	0.99	1	04/18/25 12:01	04/21/25 16:30	356-02-5	
4:2 FTS	ND	ug/kg	0.79	1	04/18/25 12:01	04/21/25 16:30	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1	04/18/25 12:01	04/21/25 16:30	914637-49-3	
6:2 FTS	ND	ug/kg	0.79	1	04/18/25 12:01	04/21/25 16:30	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1	04/18/25 12:01	04/21/25 16:30	812-70-4	
8:2 FTS	ND	ug/kg	0.79	1	04/18/25 12:01	04/21/25 16:30	39108-34-4	
9Cl-PF3ONS	ND	ug/kg	0.79	1	04/18/25 12:01	04/21/25 16:30	756426-58-1	
ADONA	ND	ug/kg	0.79	1	04/18/25 12:01	04/21/25 16:30	919005-14-4	
HFPO-DA	ND	ug/kg	0.79	1	04/18/25 12:01	04/21/25 16:30	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	04/18/25 12:01	04/21/25 16:30	1691-99-2	
NFDHA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:30	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	04/18/25 12:01	04/21/25 16:30	24448-09-7	
PFBS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	375-73-5	
PFDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	335-76-2	
PFHxA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	307-24-4	
PFBA	ND	ug/kg	0.79	1	04/18/25 12:01	04/21/25 16:30	375-22-4	
PFDS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	335-77-3	
PFDoS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	79780-39-5	
PFEESA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:30	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	375-92-8	
PFMBA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:30	863090-89-5	
PFMPA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:30	377-73-1	
PFNS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	754-91-6	
PFPeA	ND	ug/kg	0.39	1	04/18/25 12:01	04/21/25 16:30	2706-90-3	
PFPeS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	307-55-1	
PFHpA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	375-85-9	
PFHxS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	355-46-4	
PFNA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	375-95-1	
PFOS	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	1763-23-1	
PFOA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	376-06-7	
PFTrDA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	04/18/25 12:01	04/21/25 16:30	2058-94-8	
Surrogates								
13C2-PFDoA (S)	70	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C3HFPO-DA (S)	69	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C3-PFBS (S)	71	%.	40-135	1	04/18/25 12:01	04/21/25 16:30		
13C3-PFHxS (S)	67	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: P-9 (14-16) **Lab ID: 10730729016** Collected: 04/09/25 19:10 Received: 04/11/25 08:55 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	52	%.	8-130	1	04/18/25 12:01	04/21/25 16:30		
13C4-PFHpA (S)	65	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C5-PFHxA (S)	68	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C5-PFPeA (S)	71	%.	35-130	1	04/18/25 12:01	04/21/25 16:30		
13C6-PFDA (S)	68	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C8-PFOA (S)	70	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C8-PFOS (S)	67	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C8-PFOSA (S)	67	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C9-PFNA (S)	70	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
d3-MeFOSAA (S)	74	%.	40-135	1	04/18/25 12:01	04/21/25 16:30		
d3-NMeFOSA (S)	69	%.	10-130	1	04/18/25 12:01	04/21/25 16:30		
d5-EtFOSAA (S)	77	%.	40-150	1	04/18/25 12:01	04/21/25 16:30		
d5-NEtFOSA (S)	66	%.	10-130	1	04/18/25 12:01	04/21/25 16:30		
d7-NMeFOSE (S)	63	%.	20-130	1	04/18/25 12:01	04/21/25 16:30		
d9-NEtFOSE (S)	61	%.	15-130	1	04/18/25 12:01	04/21/25 16:30		
13C2-PFTA (S)	65	%.	20-130	1	04/18/25 12:01	04/21/25 16:30		
13C7-PFUdA (S)	76	%.	40-130	1	04/18/25 12:01	04/21/25 16:30		
13C24:2FTS (S)	75	%.	40-135	1	04/18/25 12:01	04/21/25 16:30		
13C26:2FTS (S)	75	%.	40-215	1	04/18/25 12:01	04/21/25 16:30		
13C28:2FTS (S)	75	%.	40-275	1	04/18/25 12:01	04/21/25 16:30		
13C3-PFPrA (S)	33	%.	8-130	1	04/18/25 12:01	04/21/25 16:30		

Sample: PFAS Field Blank **Lab ID: 10730729017** Collected: 04/09/25 15:15 Received: 04/11/25 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:13	763051-92-9	
3:3 FTCA	ND	ng/L	7.6	1	04/23/25 08:51	04/23/25 20:13	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:13	757124-72-4	
5:3 FTCA	ND	ng/L	37.9	1	04/23/25 08:51	04/23/25 20:13	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:13	27619-97-2	
7:3 FTCA	ND	ng/L	37.9	1	04/23/25 08:51	04/23/25 20:13	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:13	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:13	756426-58-1	
ADONA	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:13	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:13	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	4151-50-2	
NEtFOSE	ND	ng/L	15.2	1	04/23/25 08:51	04/23/25 20:13	1691-99-2	
NFDHA	ND	ng/L	3.0	1	04/23/25 08:51	04/23/25 20:13	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	2355-31-9	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: PFAS Field Blank **Lab ID: 10730729017** Collected: 04/09/25 15:15 Received: 04/11/25 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
NMeFOSA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	31506-32-8	
NMeFOSE	ND	ng/L	15.2	1	04/23/25 08:51	04/23/25 20:13	24448-09-7	
PFBS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	375-73-5	
PFDA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	335-76-2	
PFHxA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	307-24-4	
PFBA	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:13	375-22-4	
PFDS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	335-77-3	
PFDoS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	79780-39-5	
PFEESA	ND	ng/L	3.0	1	04/23/25 08:51	04/23/25 20:13	113507-82-7	
PFHpS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	375-92-8	
PFMBA	ND	ng/L	3.0	1	04/23/25 08:51	04/23/25 20:13	863090-89-5	
PFMPA	ND	ng/L	3.0	1	04/23/25 08:51	04/23/25 20:13	377-73-1	
PFNS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	68259-12-1	
PFOSA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	754-91-6	
PFPeA	ND	ng/L	3.0	1	04/23/25 08:51	04/23/25 20:13	2706-90-3	
PFPeS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	2706-91-4	
PFDoA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	307-55-1	
PFHpA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	375-85-9	
PFHxS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	355-46-4	
PFNA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	375-95-1	
PFOS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	1763-23-1	
PFOA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	335-67-1	
PFTeDA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	376-06-7	
PFTrDA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	72629-94-8	
PFUnA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:13	2058-94-8	
Surrogates								
13C2-PFDoA (S)	60	%.	10-130	1	04/23/25 08:51	04/23/25 20:13		
13C3HFPO-DA (S)	66	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C3-PFBS (S)	60	%.	40-135	1	04/23/25 08:51	04/23/25 20:13		
13C3-PFHxS (S)	59	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C4-PFBA (S)	65	%.	5-130	1	04/23/25 08:51	04/23/25 20:13		
13C4-PFHpA (S)	62	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C5-PFHxA (S)	62	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C5-PFPeA (S)	65	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C6-PFDA (S)	60	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C8-PFOA (S)	56	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C8-PFOS (S)	59	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C8-PFOSA (S)	51	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
13C9-PFNA (S)	59	%.	40-130	1	04/23/25 08:51	04/23/25 20:13		
d3-MeFOSAA (S)	51	%.	40-170	1	04/23/25 08:51	04/23/25 20:13		
d3-NMeFOSA (S)	37	%.	10-130	1	04/23/25 08:51	04/23/25 20:13		
d5-EtFOSAA (S)	52	%.	25-135	1	04/23/25 08:51	04/23/25 20:13		
d5-NEtFOSA (S)	35	%.	10-130	1	04/23/25 08:51	04/23/25 20:13		
d7-NMeFOSE (S)	48	%.	10-130	1	04/23/25 08:51	04/23/25 20:13		
d9-NEtFOSE (S)	46	%.	10-130	1	04/23/25 08:51	04/23/25 20:13		
13C2-PFTA (S)	59	%.	10-130	1	04/23/25 08:51	04/23/25 20:13		

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: PFAS Field Blank **Lab ID: 10730729017** Collected: 04/09/25 15:15 Received: 04/11/25 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
Surrogates								
13C7-PFUdA (S)	60	%.	30-130	1	04/23/25 08:51	04/23/25 20:13		
13C24:2FTS (S)	63	%.	40-200	1	04/23/25 08:51	04/23/25 20:13		
13C26:2FTS (S)	57	%.	40-200	1	04/23/25 08:51	04/23/25 20:13		
13C28:2FTS (S)	55	%.	40-300	1	04/23/25 08:51	04/23/25 20:13		
13C3-PFPrA (S)	69	%.	5-130	1	04/23/25 08:51	04/23/25 20:13		

Sample: PFAS Equipment Blank **Lab ID: 10730729018** Collected: 04/09/25 17:10 Received: 04/11/25 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:22	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	04/23/25 08:51	04/23/25 20:22	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:22	757124-72-4	
5:3 FTCA	ND	ng/L	38.3	1	04/23/25 08:51	04/23/25 20:22	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:22	27619-97-2	
7:3 FTCA	ND	ng/L	38.3	1	04/23/25 08:51	04/23/25 20:22	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:22	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:22	756426-58-1	
ADONA	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:22	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:22	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	4151-50-2	
NEtFOSE	ND	ng/L	15.3	1	04/23/25 08:51	04/23/25 20:22	1691-99-2	
NFDHA	ND	ng/L	3.1	1	04/23/25 08:51	04/23/25 20:22	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	31506-32-8	
NMeFOSE	ND	ng/L	15.3	1	04/23/25 08:51	04/23/25 20:22	24448-09-7	
PFBS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	375-73-5	
PFDA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	335-76-2	
PFHxA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	307-24-4	
PFBA	ND	ng/L	6.1	1	04/23/25 08:51	04/23/25 20:22	375-22-4	
PFDS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	335-77-3	
PFDoS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	79780-39-5	
PFEESA	ND	ng/L	3.1	1	04/23/25 08:51	04/23/25 20:22	113507-82-7	
PFHpS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	375-92-8	
PFMBA	ND	ng/L	3.1	1	04/23/25 08:51	04/23/25 20:22	863090-89-5	
PFMPA	ND	ng/L	3.1	1	04/23/25 08:51	04/23/25 20:22	377-73-1	
PFNS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	68259-12-1	
PFOSA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	754-91-6	
PFPeA	ND	ng/L	3.1	1	04/23/25 08:51	04/23/25 20:22	2706-90-3	
PFPeS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	2706-91-4	
PFDoA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	307-55-1	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: PFAS Equipment Blank **Lab ID: 10730729018** Collected: 04/09/25 17:10 Received: 04/11/25 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
PFHpA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	375-85-9	
PFHxS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	355-46-4	
PFNA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	375-95-1	
PFOS	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	1763-23-1	
PFOA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	335-67-1	
PFTeDA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	376-06-7	
PFTrDA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	72629-94-8	
PFUnA	ND	ng/L	1.5	1	04/23/25 08:51	04/23/25 20:22	2058-94-8	
Surrogates								
13C2-PFDoA (S)	60	%.	10-130	1	04/23/25 08:51	04/23/25 20:22		
13C3HFPO-DA (S)	63	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C3-PFBS (S)	62	%.	40-135	1	04/23/25 08:51	04/23/25 20:22		
13C3-PFHxS (S)	62	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C4-PFBA (S)	2	%.	5-130	1	04/23/25 08:51	04/23/25 20:22		S0
13C4-PFHpA (S)	64	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C5-PFHxA (S)	64	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C5-PFPeA (S)	63	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C6-PFDA (S)	59	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C8-PFOA (S)	62	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C8-PFOS (S)	60	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C8-PFOSA (S)	55	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
13C9-PFNA (S)	59	%.	40-130	1	04/23/25 08:51	04/23/25 20:22		
d3-MeFOSAA (S)	51	%.	40-170	1	04/23/25 08:51	04/23/25 20:22		
d3-NMeFOSA (S)	53	%.	10-130	1	04/23/25 08:51	04/23/25 20:22		
d5-EtFOSAA (S)	53	%.	25-135	1	04/23/25 08:51	04/23/25 20:22		
d5-NEtFOSA (S)	49	%.	10-130	1	04/23/25 08:51	04/23/25 20:22		
d7-NMeFOSE (S)	48	%.	10-130	1	04/23/25 08:51	04/23/25 20:22		
d9-NEtFOSE (S)	47	%.	10-130	1	04/23/25 08:51	04/23/25 20:22		
13C2-PFTA (S)	59	%.	10-130	1	04/23/25 08:51	04/23/25 20:22		
13C7-PFUdA (S)	62	%.	30-130	1	04/23/25 08:51	04/23/25 20:22		
13C24:2FTS (S)	66	%.	40-200	1	04/23/25 08:51	04/23/25 20:22		
13C26:2FTS (S)	64	%.	40-200	1	04/23/25 08:51	04/23/25 20:22		
13C28:2FTS (S)	61	%.	40-300	1	04/23/25 08:51	04/23/25 20:22		
13C3-PFPrA (S)	0	%.	5-130	1	04/23/25 08:51	04/23/25 20:22		S0

Sample: Trip Blank Soil **Lab ID: 10730729019** Collected: Received: 04/11/25 08:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1000	1	04/17/25 11:03	04/17/25 19:55	67-64-1	
Allyl chloride	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	107-05-1	
Benzene	ND	ug/kg	20.0	1	04/17/25 11:03	04/17/25 19:55	71-43-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: Trip Blank Soil **Lab ID: 10730729019** Collected: Received: 04/11/25 08:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Bromobenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	75-27-4	
Bromoform	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	75-25-2	
Bromomethane	ND	ug/kg	500	1	04/17/25 11:03	04/17/25 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 19:55	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	108-90-7	
Chloroethane	ND	ug/kg	500	1	04/17/25 11:03	04/17/25 19:55	75-00-3	
Chloroform	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	67-66-3	
Chloromethane	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	1	04/17/25 11:03	04/17/25 19:55	96-12-8	
Dibromochloromethane	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	106-93-4	
Dibromomethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	1	04/17/25 11:03	04/17/25 19:55	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 19:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	99-87-6	
Methylene Chloride	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	1	04/17/25 11:03	04/17/25 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	1634-04-4	
Naphthalene	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	91-20-3	

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ANALYTICAL RESULTS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Sample: Trip Blank Soil **Lab ID: 10730729019** Collected: Received: 04/11/25 08:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
n-Propylbenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	103-65-1	
Styrene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	1	04/17/25 11:03	04/17/25 19:55	109-99-9	
Toluene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	79-00-5	
Trichloroethene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	1	04/17/25 11:03	04/17/25 19:55	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	1	04/17/25 11:03	04/17/25 19:55	75-01-4	
Xylene (Total)	ND	ug/kg	150	1	04/17/25 11:03	04/17/25 19:55	1330-20-7	
m&p-Xylene	ND	ug/kg	100	1	04/17/25 11:03	04/17/25 19:55	179601-23-1	
o-Xylene	ND	ug/kg	50.0	1	04/17/25 11:03	04/17/25 19:55	95-47-6	
Surrogates								
Toluene-d8 (S)	111	%.	75-125	1	04/17/25 11:03	04/17/25 19:55	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1	04/17/25 11:03	04/17/25 19:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	04/17/25 11:03	04/17/25 19:55	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 2496507
QC Batch Method: 8015
Analysis Method: OA1
Analysis Description: VOA (GC) 8021/OA1
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012

METHOD BLANK: R4203711-4 Matrix: Solid
Associated Lab Samples: 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0125	04/22/25 09:38	
Ethylbenzene	mg/kg	ND	0.0125	04/22/25 09:38	
Gasoline Range Organics	mg/kg	ND	2.50	04/22/25 09:38	
Methyl-tert-butyl ether	mg/kg	ND	0.125	04/22/25 09:38	
Toluene	mg/kg	ND	0.125	04/22/25 09:38	
Xylene (Total)	mg/kg	ND	0.0375	04/22/25 09:38	
a,a,a-Trifluorotoluene (FID)	%	101	77.0-120	04/22/25 09:38	
a,a,a-Trifluorotoluene (PID)	%	103	72.0-128	04/22/25 09:38	

LABORATORY CONTROL SAMPLE & LCSD: R4203711-2 R4203711-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	5.00	4.58	4.61	91.6	92.2	72.0-127	0.653	20	
a,a,a-Trifluorotoluene (FID)	%				102	102	77.0-120			
a,a,a-Trifluorotoluene (PID)	%				106	106	72.0-128			

LABORATORY CONTROL SAMPLE: R4203711-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	0.0500	0.0431	86.2	76.0-121	
Ethylbenzene	mg/kg	0.0500	0.0454	90.8	80.0-124	
Methyl-tert-butyl ether	mg/kg	0.0500	0.0457	91.4	71.0-121	
Toluene	mg/kg	0.0500	0.0457	91.4	80.0-120	
Xylene (Total)	mg/kg	0.150	0.135	90.0	37.0-160	
a,a,a-Trifluorotoluene (FID)	%			101	77.0-120	
a,a,a-Trifluorotoluene (PID)	%			104	72.0-128	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 2496507
QC Batch Method: 8015/8021
Analysis Method: OA1
Analysis Description: VOA (GC) 8021/OA1
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012

METHOD BLANK: R4203711-4 Matrix: Solid
Associated Lab Samples: 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0125	04/22/25 09:38	
Ethylbenzene	mg/kg	ND	0.0125	04/22/25 09:38	
Gasoline Range Organics	mg/kg	ND	2.50	04/22/25 09:38	
Methyl-tert-butyl ether	mg/kg	ND	0.125	04/22/25 09:38	
Toluene	mg/kg	ND	0.125	04/22/25 09:38	
Xylene (Total)	mg/kg	ND	0.0375	04/22/25 09:38	
a,a,a-Trifluorotoluene (FID)	%	101	77.0-120	04/22/25 09:38	
a,a,a-Trifluorotoluene (PID)	%	103	72.0-128	04/22/25 09:38	

LABORATORY CONTROL SAMPLE & LCSD: R4203711-2 R4203711-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	5.00	4.58	4.61	91.6	92.2	72.0-127	0.653	20	
a,a,a-Trifluorotoluene (FID)	%				102	102	77.0-120			
a,a,a-Trifluorotoluene (PID)	%				106	106	72.0-128			

LABORATORY CONTROL SAMPLE: R4203711-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	0.0500	0.0431	86.2	76.0-121	
Ethylbenzene	mg/kg	0.0500	0.0454	90.8	80.0-124	
Methyl-tert-butyl ether	mg/kg	0.0500	0.0457	91.4	71.0-121	
Toluene	mg/kg	0.0500	0.0457	91.4	80.0-120	
Xylene (Total)	mg/kg	0.150	0.135	90.0	37.0-160	
a,a,a-Trifluorotoluene (FID)	%			101	77.0-120	
a,a,a-Trifluorotoluene (PID)	%			104	72.0-128	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 2496507
QC Batch Method: 8021
Analysis Method: OA1
Analysis Description: VOA (GC) 8021/OA1
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012

METHOD BLANK: R4203711-4 Matrix: Solid
Associated Lab Samples: 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0125	04/22/25 09:38	
Ethylbenzene	mg/kg	ND	0.0125	04/22/25 09:38	
Gasoline Range Organics	mg/kg	ND	2.50	04/22/25 09:38	
Methyl-tert-butyl ether	mg/kg	ND	0.125	04/22/25 09:38	
Toluene	mg/kg	ND	0.125	04/22/25 09:38	
Xylene (Total)	mg/kg	ND	0.0375	04/22/25 09:38	
a,a,a-Trifluorotoluene (FID)	%	101	77.0-120	04/22/25 09:38	
a,a,a-Trifluorotoluene (PID)	%	103	72.0-128	04/22/25 09:38	

LABORATORY CONTROL SAMPLE & LCSD: R4203711-2 R4203711-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	5.00	4.58	4.61	91.6	92.2	72.0-127	0.653	20	
a,a,a-Trifluorotoluene (FID)	%				102	102	77.0-120			
a,a,a-Trifluorotoluene (PID)	%				106	106	72.0-128			

LABORATORY CONTROL SAMPLE: R4203711-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	0.0500	0.0431	86.2	76.0-121	
Ethylbenzene	mg/kg	0.0500	0.0454	90.8	80.0-124	
Methyl-tert-butyl ether	mg/kg	0.0500	0.0457	91.4	71.0-121	
Toluene	mg/kg	0.0500	0.0457	91.4	80.0-120	
Xylene (Total)	mg/kg	0.150	0.135	90.0	37.0-160	
a,a,a-Trifluorotoluene (FID)	%			101	77.0-120	
a,a,a-Trifluorotoluene (PID)	%			104	72.0-128	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 2497519
QC Batch Method: 8015/8021
Analysis Method: OA1
Analysis Description: VOA (GC) 8021/OA1
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10730729013, 10730729014, 10730729015, 10730729016

METHOD BLANK: R4204320-4 Matrix: Solid
Associated Lab Samples: 10730729013, 10730729014, 10730729015, 10730729016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0125	04/23/25 11:18	
Ethylbenzene	mg/kg	ND	0.0125	04/23/25 11:18	
Gasoline Range Organics	mg/kg	ND	2.50	04/23/25 11:18	
Methyl-tert-butyl ether	mg/kg	ND	0.125	04/23/25 11:18	
Toluene	mg/kg	ND	0.125	04/23/25 11:18	
Xylene (Total)	mg/kg	ND	0.0375	04/23/25 11:18	
a,a,a-Trifluorotoluene (FID)	%	99.9	77.0-120	04/23/25 11:18	
a,a,a-Trifluorotoluene (PID)	%	105	72.0-128	04/23/25 11:18	

LABORATORY CONTROL SAMPLE & LCSD: R4204320-2 R4204320-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	5.00	5.04	4.77	101	95.4	72.0-127	5.50	20	
a,a,a-Trifluorotoluene (FID)	%				110	108	77.0-120			
a,a,a-Trifluorotoluene (PID)	%				112	111	72.0-128			

LABORATORY CONTROL SAMPLE: R4204320-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	0.0500	0.0507	101	76.0-121	
Ethylbenzene	mg/kg	0.0500	0.0526	105	80.0-124	
Methyl-tert-butyl ether	mg/kg	0.0500	0.0545	109	71.0-121	
Toluene	mg/kg	0.0500	0.0513	103	80.0-120	
Xylene (Total)	mg/kg	0.150	0.153	102	37.0-160	
a,a,a-Trifluorotoluene (FID)	%			98.6	77.0-120	
a,a,a-Trifluorotoluene (PID)	%			103	72.0-128	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 2497519
QC Batch Method: 8021
Analysis Method: OA1
Analysis Description: VOA (GC) 8021/OA1
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10730729013, 10730729014, 10730729015, 10730729016

METHOD BLANK: R4204320-4 Matrix: Solid
Associated Lab Samples: 10730729013, 10730729014, 10730729015, 10730729016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0125	04/23/25 11:18	
Ethylbenzene	mg/kg	ND	0.0125	04/23/25 11:18	
Gasoline Range Organics	mg/kg	ND	2.50	04/23/25 11:18	
Methyl-tert-butyl ether	mg/kg	ND	0.125	04/23/25 11:18	
Toluene	mg/kg	ND	0.125	04/23/25 11:18	
Xylene (Total)	mg/kg	ND	0.0375	04/23/25 11:18	
a,a,a-Trifluorotoluene (FID)	%	99.9	77.0-120	04/23/25 11:18	
a,a,a-Trifluorotoluene (PID)	%	105	72.0-128	04/23/25 11:18	

LABORATORY CONTROL SAMPLE & LCSD: R4204320-2 R4204320-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	5.00	5.04	4.77	101	95.4	72.0-127	5.50	20	
a,a,a-Trifluorotoluene (FID)	%				110	108	77.0-120			
a,a,a-Trifluorotoluene (PID)	%				112	111	72.0-128			

LABORATORY CONTROL SAMPLE: R4204320-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	0.0500	0.0507	101	76.0-121	
Ethylbenzene	mg/kg	0.0500	0.0526	105	80.0-124	
Methyl-tert-butyl ether	mg/kg	0.0500	0.0545	109	71.0-121	
Toluene	mg/kg	0.0500	0.0513	103	80.0-120	
Xylene (Total)	mg/kg	0.150	0.153	102	37.0-160	
a,a,a-Trifluorotoluene (FID)	%			98.6	77.0-120	
a,a,a-Trifluorotoluene (PID)	%			103	72.0-128	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 2497519
QC Batch Method: 8015
Analysis Method: OA1
Analysis Description: VOA (GC) 8021/OA1
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10730729013, 10730729014, 10730729015, 10730729016

METHOD BLANK: R4204320-4 Matrix: Solid
Associated Lab Samples: 10730729013, 10730729014, 10730729015, 10730729016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0125	04/23/25 11:18	
Ethylbenzene	mg/kg	ND	0.0125	04/23/25 11:18	
Gasoline Range Organics	mg/kg	ND	2.50	04/23/25 11:18	
Methyl-tert-butyl ether	mg/kg	ND	0.125	04/23/25 11:18	
Toluene	mg/kg	ND	0.125	04/23/25 11:18	
Xylene (Total)	mg/kg	ND	0.0375	04/23/25 11:18	
a,a,a-Trifluorotoluene (FID)	%	99.9	77.0-120	04/23/25 11:18	
a,a,a-Trifluorotoluene (PID)	%	105	72.0-128	04/23/25 11:18	

LABORATORY CONTROL SAMPLE & LCSD: R4204320-2 R4204320-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	5.00	5.04	4.77	101	95.4	72.0-127	5.50	20	
a,a,a-Trifluorotoluene (FID)	%				110	108	77.0-120			
a,a,a-Trifluorotoluene (PID)	%				112	111	72.0-128			

LABORATORY CONTROL SAMPLE: R4204320-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	0.0500	0.0507	101	76.0-121	
Ethylbenzene	mg/kg	0.0500	0.0526	105	80.0-124	
Methyl-tert-butyl ether	mg/kg	0.0500	0.0545	109	71.0-121	
Toluene	mg/kg	0.0500	0.0513	103	80.0-120	
Xylene (Total)	mg/kg	0.150	0.153	102	37.0-160	
a,a,a-Trifluorotoluene (FID)	%			98.6	77.0-120	
a,a,a-Trifluorotoluene (PID)	%			103	72.0-128	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 1001218
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10730729001, 10730729002, 10730729003, 10730729004, 10730729005, 10730729006, 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012, 10730729013, 10730729014, 10730729015, 10730729016

SAMPLE DUPLICATE: 5222479

Parameter	Units	10730635001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.4	16.7	4	30	N2

SAMPLE DUPLICATE: 5222480

Parameter	Units	10730729007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.4	7.7	4	30	N2

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 1002006
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 5030 Med Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10730729001, 10730729002, 10730729003, 10730729004, 10730729005, 10730729006, 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012, 10730729013, 10730729014, 10730729015, 10730729016, 10730729019

METHOD BLANK: 5225549
Matrix: Solid
Associated Lab Samples: 10730729001, 10730729002, 10730729003, 10730729004, 10730729005, 10730729006, 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012, 10730729013, 10730729014, 10730729015, 10730729016, 10730729019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	04/17/25 19:39	
1,1,1-Trichloroethane	ug/kg	ND	50.0	04/17/25 19:39	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	04/17/25 19:39	
1,1,2-Trichloroethane	ug/kg	ND	50.0	04/17/25 19:39	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	04/17/25 19:39	
1,1-Dichloroethane	ug/kg	ND	50.0	04/17/25 19:39	
1,1-Dichloroethene	ug/kg	ND	50.0	04/17/25 19:39	
1,1-Dichloropropene	ug/kg	ND	50.0	04/17/25 19:39	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	04/17/25 19:39	
1,2,3-Trichloropropane	ug/kg	ND	200	04/17/25 19:39	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	04/17/25 19:39	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	04/17/25 19:39	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	04/17/25 19:39	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	04/17/25 19:39	
1,2-Dichlorobenzene	ug/kg	ND	50.0	04/17/25 19:39	
1,2-Dichloroethane	ug/kg	ND	50.0	04/17/25 19:39	
1,2-Dichloropropane	ug/kg	ND	50.0	04/17/25 19:39	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	04/17/25 19:39	
1,3-Dichlorobenzene	ug/kg	ND	50.0	04/17/25 19:39	
1,3-Dichloropropane	ug/kg	ND	50.0	04/17/25 19:39	
1,4-Dichlorobenzene	ug/kg	ND	50.0	04/17/25 19:39	
2,2-Dichloropropane	ug/kg	ND	200	04/17/25 19:39	
2-Butanone (MEK)	ug/kg	ND	250	04/17/25 19:39	
2-Chlorotoluene	ug/kg	ND	50.0	04/17/25 19:39	
4-Chlorotoluene	ug/kg	ND	50.0	04/17/25 19:39	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	04/17/25 19:39	
Acetone	ug/kg	ND	1000	04/17/25 19:39	
Allyl chloride	ug/kg	ND	200	04/17/25 19:39	
Benzene	ug/kg	ND	20.0	04/17/25 19:39	
Bromobenzene	ug/kg	ND	50.0	04/17/25 19:39	
Bromochloromethane	ug/kg	ND	50.0	04/17/25 19:39	
Bromodichloromethane	ug/kg	ND	50.0	04/17/25 19:39	
Bromoform	ug/kg	ND	200	04/17/25 19:39	
Bromomethane	ug/kg	ND	500	04/17/25 19:39	
Carbon tetrachloride	ug/kg	ND	50.0	04/17/25 19:39	
Chlorobenzene	ug/kg	ND	50.0	04/17/25 19:39	
Chloroethane	ug/kg	ND	500	04/17/25 19:39	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

METHOD BLANK: 5225549 Matrix: Solid

Associated Lab Samples: 10730729001, 10730729002, 10730729003, 10730729004, 10730729005, 10730729006, 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012, 10730729013, 10730729014, 10730729015, 10730729016, 10730729019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/kg	ND	50.0	04/17/25 19:39	
Chloromethane	ug/kg	ND	200	04/17/25 19:39	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	04/17/25 19:39	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	04/17/25 19:39	
Dibromochloromethane	ug/kg	ND	200	04/17/25 19:39	
Dibromomethane	ug/kg	ND	50.0	04/17/25 19:39	
Dichlorodifluoromethane	ug/kg	ND	200	04/17/25 19:39	
Dichlorofluoromethane	ug/kg	ND	500	04/17/25 19:39	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	04/17/25 19:39	
Ethylbenzene	ug/kg	ND	50.0	04/17/25 19:39	
Hexachloro-1,3-butadiene	ug/kg	ND	250	04/17/25 19:39	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	04/17/25 19:39	
m&p-Xylene	ug/kg	ND	100	04/17/25 19:39	
Methyl-tert-butyl ether	ug/kg	ND	50.0	04/17/25 19:39	
Methylene Chloride	ug/kg	ND	200	04/17/25 19:39	
n-Butylbenzene	ug/kg	ND	50.0	04/17/25 19:39	
n-Propylbenzene	ug/kg	ND	50.0	04/17/25 19:39	
Naphthalene	ug/kg	ND	200	04/17/25 19:39	
o-Xylene	ug/kg	ND	50.0	04/17/25 19:39	
p-Isopropyltoluene	ug/kg	ND	50.0	04/17/25 19:39	
sec-Butylbenzene	ug/kg	ND	50.0	04/17/25 19:39	
Styrene	ug/kg	ND	50.0	04/17/25 19:39	
tert-Butylbenzene	ug/kg	ND	50.0	04/17/25 19:39	
Tetrachloroethene	ug/kg	ND	50.0	04/17/25 19:39	
Tetrahydrofuran	ug/kg	ND	2000	04/17/25 19:39	
Toluene	ug/kg	ND	50.0	04/17/25 19:39	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	04/17/25 19:39	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	04/17/25 19:39	
Trichloroethene	ug/kg	ND	50.0	04/17/25 19:39	
Trichlorofluoromethane	ug/kg	ND	200	04/17/25 19:39	
Vinyl chloride	ug/kg	ND	20.0	04/17/25 19:39	
Xylene (Total)	ug/kg	ND	150	04/17/25 19:39	
1,2-Dichlorobenzene-d4 (S)	%.	99	75-125	04/17/25 19:39	
4-Bromofluorobenzene (S)	%.	103	75-125	04/17/25 19:39	
Toluene-d8 (S)	%.	109	75-125	04/17/25 19:39	

LABORATORY CONTROL SAMPLE & LCSD: 5225550 5225551

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1040	1040	104	104	73-127	0	20	
1,1,1-Trichloroethane	ug/kg	1000	1010	1010	101	101	73-125	0	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1020	1000	102	100	66-126	2	20	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

LABORATORY CONTROL SAMPLE & LCSD: 5225550 5225551

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2-Trichloroethane	ug/kg	1000	1040	1010	104	101	75-125	3	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1110	1090	111	109	67-139	2	20	SS
1,1-Dichloroethane	ug/kg	1000	1080	1060	108	106	75-125	2	20	
1,1-Dichloroethene	ug/kg	1000	1090	980	109	98	75-127	11	20	
1,1-Dichloropropene	ug/kg	1000	1050	1060	105	106	75-125	1	20	
1,2,3-Trichlorobenzene	ug/kg	1000	993	969	99	97	70-125	2	20	
1,2,3-Trichloropropane	ug/kg	1000	1170	1110	117	111	75-125	6	20	
1,2,4-Trichlorobenzene	ug/kg	1000	983	960	98	96	75-125	2	20	
1,2,4-Trimethylbenzene	ug/kg	1000	1010	952	101	95	75-125	6	20	
1,2-Dibromo-3-chloropropane	ug/kg	1000	942	947	94	95	72-125	1	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	1110	1060	111	106	75-125	4	20	
1,2-Dichlorobenzene	ug/kg	1000	955	925	96	93	75-125	3	20	
1,2-Dichloroethane	ug/kg	1000	1060	1040	106	104	75-125	2	20	
1,2-Dichloropropane	ug/kg	1000	1050	1090	105	109	75-125	3	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1030	989	103	99	75-125	4	20	
1,3-Dichlorobenzene	ug/kg	1000	984	950	98	95	75-125	4	20	
1,3-Dichloropropane	ug/kg	1000	1040	1020	104	102	75-125	2	20	
1,4-Dichlorobenzene	ug/kg	1000	954	920	95	92	75-125	4	20	
2,2-Dichloropropane	ug/kg	1000	937	922	94	92	56-128	2	20	
2-Butanone (MEK)	ug/kg	5000	5400	5390	108	108	70-129	0	20	
2-Chlorotoluene	ug/kg	1000	956	933	96	93	75-125	2	20	
4-Chlorotoluene	ug/kg	1000	990	980	99	98	75-125	1	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5400	5440	108	109	75-127	1	20	
Acetone	ug/kg	5000	5480	5280	110	106	68-130	4	20	
Allyl chloride	ug/kg	1000	996	987	100	99	69-125	1	20	
Benzene	ug/kg	1000	1070	1000	107	100	75-125	6	20	
Bromobenzene	ug/kg	1000	1010	992	101	99	75-125	1	20	
Bromochloromethane	ug/kg	1000	1010	997	101	100	75-125	2	20	
Bromodichloromethane	ug/kg	1000	1050	1030	105	103	72-125	2	20	
Bromoform	ug/kg	1000	884	907	88	91	64-125	3	20	
Bromomethane	ug/kg	1000	1180	1080	118	108	32-150	9	20	
Carbon tetrachloride	ug/kg	1000	1070	1080	107	108	72-126	1	20	
Chlorobenzene	ug/kg	1000	1030	967	103	97	75-125	6	20	
Chloroethane	ug/kg	1000	904	982	90	98	49-150	8	20	
Chloroform	ug/kg	1000	1040	1050	104	105	75-125	1	20	
Chloromethane	ug/kg	1000	1070	1010	107	101	64-133	6	20	
cis-1,2-Dichloroethene	ug/kg	1000	1040	1020	104	102	75-125	2	20	
cis-1,3-Dichloropropene	ug/kg	1000	991	985	99	98	68-134	1	20	
Dibromochloromethane	ug/kg	1000	887	877	89	88	72-126	1	20	
Dibromomethane	ug/kg	1000	1060	1040	106	104	75-128	1	20	
Dichlorodifluoromethane	ug/kg	1000	1290	1240	129	124	65-144	4	20	
Dichlorofluoromethane	ug/kg	1000	1090	1030	109	103	60-145	6	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	1040	1010	104	101	75-125	3	20	
Ethylbenzene	ug/kg	1000	1050	997	105	100	75-125	5	20	
Hexachloro-1,3-butadiene	ug/kg	1000	939	891	94	89	67-126	5	20	
Isopropylbenzene (Cumene)	ug/kg	1000	1040	994	104	99	75-125	5	20	
m&p-Xylene	ug/kg	2000	2030	1940	102	97	75-125	4	20	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

LABORATORY CONTROL SAMPLE & LCSD: 5225550 5225551

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	1000	1040	1040	104	104	75-125	0	20	
Methylene Chloride	ug/kg	1000	938	897	94	90	74-125	4	20	
n-Butylbenzene	ug/kg	1000	1000	946	100	95	66-125	6	20	
n-Propylbenzene	ug/kg	1000	1040	1020	104	102	75-125	2	20	
Naphthalene	ug/kg	1000	1010	1020	101	102	75-125	1	20	
o-Xylene	ug/kg	1000	1010	951	101	95	75-125	6	20	
p-Isopropyltoluene	ug/kg	1000	1010	994	101	99	74-125	1	20	
sec-Butylbenzene	ug/kg	1000	1030	1000	103	100	74-125	3	20	
Styrene	ug/kg	1000	1040	1010	104	101	75-125	3	20	
tert-Butylbenzene	ug/kg	1000	1010	978	101	98	75-125	3	20	
Tetrachloroethene	ug/kg	1000	1100	1020	110	102	75-125	7	20	
Tetrahydrofuran	ug/kg	5000	5310	5390	106	108	69-132	1	20	
Toluene	ug/kg	1000	1010	990	101	99	75-125	2	20	
trans-1,2-Dichloroethene	ug/kg	1000	1040	984	104	98	75-128	6	20	
trans-1,3-Dichloropropene	ug/kg	1000	975	967	97	97	68-129	1	20	
Trichloroethene	ug/kg	1000	1010	993	101	99	75-125	1	20	
Trichlorofluoromethane	ug/kg	1000	1170	1130	117	113	69-146	4	20	
Vinyl chloride	ug/kg	1000	1170	1090	117	109	71-138	7	20	
Xylene (Total)	ug/kg	3000	3040	2890	101	96	75-125	5	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	99	75-125			
4-Bromofluorobenzene (S)	%.				100	102	75-125			
Toluene-d8 (S)	%.				100	100	75-125			

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 932307
QC Batch Method: EPA 3546
Analysis Method: OA2
Analysis Description: OA2 GCS
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012, 10730729013, 10730729014, 10730729015, 10730729016

METHOD BLANK: 3693326 Matrix: Solid
Associated Lab Samples: 10730729007, 10730729008, 10730729009, 10730729010, 10730729011, 10730729012, 10730729013, 10730729014, 10730729015, 10730729016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	9.7	04/23/25 20:45	
n-Tetracosane (S)	%	77	10-154	04/23/25 20:45	
p-Terphenyl (S)	%	92	55-128	04/23/25 20:45	

LABORATORY CONTROL SAMPLE: 3693327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Tetracosane (S)	%			89	10-154	
p-Terphenyl (S)	%			101	55-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3693328 3693329

Parameter	Units	10730729007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
n-Tetracosane (S)	%						111	111	10-154			
p-Terphenyl (S)	%						112	111	55-128			

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 1001719
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Soil
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10730729007, 10730729008, 10730729015, 10730729016

METHOD BLANK: 5224342 Matrix: Solid
Associated Lab Samples: 10730729007, 10730729008, 10730729015, 10730729016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ug/kg	ND	0.80	04/21/25 13:08	
3:3 FTCA	ug/kg	ND	1.0	04/21/25 13:08	
4:2 FTS	ug/kg	ND	0.80	04/21/25 13:08	
5:3 FTCA	ug/kg	ND	5.0	04/21/25 13:08	
6:2 FTS	ug/kg	ND	0.80	04/21/25 13:08	
7:3 FTCA	ug/kg	ND	5.0	04/21/25 13:08	
8:2 FTS	ug/kg	ND	0.80	04/21/25 13:08	
9Cl-PF3ONS	ug/kg	ND	0.80	04/21/25 13:08	
ADONA	ug/kg	ND	0.80	04/21/25 13:08	
HFPO-DA	ug/kg	ND	0.80	04/21/25 13:08	
NEtFOSA	ug/kg	ND	0.20	04/21/25 13:08	
NEtFOSAA	ug/kg	ND	0.20	04/21/25 13:08	
NEtFOSE	ug/kg	ND	2.0	04/21/25 13:08	
NFDHA	ug/kg	ND	0.40	04/21/25 13:08	
NMeFOSA	ug/kg	ND	0.20	04/21/25 13:08	
NMeFOSAA	ug/kg	ND	0.20	04/21/25 13:08	
NMeFOSE	ug/kg	ND	2.0	04/21/25 13:08	
PFBA	ug/kg	ND	0.80	04/21/25 13:08	
PFBS	ug/kg	ND	0.20	04/21/25 13:08	
PFDA	ug/kg	ND	0.20	04/21/25 13:08	
PFDoA	ug/kg	ND	0.20	04/21/25 13:08	
PFDoS	ug/kg	ND	0.20	04/21/25 13:08	
PFDS	ug/kg	ND	0.20	04/21/25 13:08	
PFEESA	ug/kg	ND	0.40	04/21/25 13:08	
PFHpA	ug/kg	ND	0.20	04/21/25 13:08	
PFHpS	ug/kg	ND	0.20	04/21/25 13:08	
PFHxA	ug/kg	ND	0.20	04/21/25 13:08	
PFHxS	ug/kg	ND	0.20	04/21/25 13:08	
PFMBA	ug/kg	ND	0.40	04/21/25 13:08	
PFMPA	ug/kg	ND	0.40	04/21/25 13:08	
PFNA	ug/kg	ND	0.20	04/21/25 13:08	
PFNS	ug/kg	ND	0.20	04/21/25 13:08	
PFOA	ug/kg	ND	0.20	04/21/25 13:08	
PFOS	ug/kg	ND	0.20	04/21/25 13:08	
PFOSA	ug/kg	ND	0.20	04/21/25 13:08	
PFPeA	ug/kg	ND	0.40	04/21/25 13:08	
PFPeS	ug/kg	ND	0.20	04/21/25 13:08	
PFTeDA	ug/kg	ND	0.20	04/21/25 13:08	
PFTrDA	ug/kg	ND	0.20	04/21/25 13:08	
PFUnA	ug/kg	ND	0.20	04/21/25 13:08	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

METHOD BLANK: 5224342 Matrix: Solid
Associated Lab Samples: 10730729007, 10730729008, 10730729015, 10730729016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	80	40-130	04/21/25 13:08	
13C2-PFTA (S)	%.	74	20-130	04/21/25 13:08	
13C24:2FTS (S)	%.	84	40-135	04/21/25 13:08	
13C26:2FTS (S)	%.	83	40-215	04/21/25 13:08	
13C28:2FTS (S)	%.	81	40-275	04/21/25 13:08	
13C3-PFBS (S)	%.	82	40-135	04/21/25 13:08	
13C3-PFHxS (S)	%.	80	40-130	04/21/25 13:08	
13C3-PFPrA (S)	%.	44	8-130	04/21/25 13:08	
13C3HFPO-DA (S)	%.	80	40-130	04/21/25 13:08	
13C4-PFBA (S)	%.	60	8-130	04/21/25 13:08	
13C4-PFHpA (S)	%.	75	40-130	04/21/25 13:08	
13C5-PFHxA (S)	%.	79	40-130	04/21/25 13:08	
13C5-PFPeA (S)	%.	83	35-130	04/21/25 13:08	
13C6-PFDA (S)	%.	79	40-130	04/21/25 13:08	
13C7-PFUdA (S)	%.	85	40-130	04/21/25 13:08	
13C8-PFOA (S)	%.	78	40-130	04/21/25 13:08	
13C8-PFOS (S)	%.	81	40-130	04/21/25 13:08	
13C8-PFOSA (S)	%.	73	40-130	04/21/25 13:08	
13C9-PFNA (S)	%.	82	40-130	04/21/25 13:08	
d3-MeFOSAA (S)	%.	62	40-135	04/21/25 13:08	
d3-NMeFOSA (S)	%.	70	10-130	04/21/25 13:08	
d5-EtFOSAA (S)	%.	67	40-150	04/21/25 13:08	
d5-NEtFOSA (S)	%.	72	10-130	04/21/25 13:08	
d7-NMeFOSE (S)	%.	70	20-130	04/21/25 13:08	
d9-NEtFOSE (S)	%.	72	15-130	04/21/25 13:08	

LABORATORY CONTROL SAMPLE: 5224343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ug/kg	7.5	7.6	101	45-160	
3:3 FTCA	ug/kg	9.9	7.4	75	45-130	
4:2 FTS	ug/kg	7.5	7.2	96	60-150	
5:3 FTCA	ug/kg	49.6	47.2	95	60-130	
6:2 FTS	ug/kg	7.7	8.1	106	55-200	
7:3 FTCA	ug/kg	49.6	48.2	97	60-150	
8:2 FTS	ug/kg	7.7	7.8	102	70-150	
9Cl-PF3ONS	ug/kg	7.5	7.7	102	70-150	
ADONA	ug/kg	7.5	7.8	104	70-160	
HFPO-DA	ug/kg	8	7.4	93	70-145	
NEtFOSA	ug/kg	1.9	1.8	96	70-140	
NEtFOSAA	ug/kg	1.9	1.8	96	65-165	
NEtFOSE	ug/kg	19.2	19.6	102	70-135	
NFDHA	ug/kg	4	3.7	91	60-155	
NMeFOSA	ug/kg	1.9	1.8	95	70-155	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

LABORATORY CONTROL SAMPLE: 5224343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ug/kg	1.9	1.9	99	65-155	
NMeFOSE	ug/kg	19.2	18.5	96	70-140	
PFBA	ug/kg	8	7.6	95	70-140	
PFBS	ug/kg	1.8	1.7	95	65-145	
PFDA	ug/kg	1.9	1.9	101	70-155	
PFDoA	ug/kg	1.9	1.9	100	70-150	
PFDoS	ug/kg	1.9	1.7	90	25-160	
PFDS	ug/kg	1.9	1.7	88	40-155	
PFEESA	ug/kg	3.5	3.5	99	70-140	
PFHpA	ug/kg	1.9	1.9	99	65-145	
PFHpS	ug/kg	1.9	1.9	98	65-155	
PFHxA	ug/kg	1.9	1.8	95	65-140	
PFHxS	ug/kg	1.8	1.7	96	60-150	
PFMBA	ug/kg	4	3.8	94	60-150	
PFMPA	ug/kg	4	4.1	102	30-140	
PFNA	ug/kg	1.9	1.9	100	70-155	
PFNS	ug/kg	1.9	1.7	90	55-140	
PFOA	ug/kg	1.9	1.8	96	70-150	
PFOS	ug/kg	1.9	1.8	92	65-160	
PFOSA	ug/kg	1.9	1.8	96	70-140	
PFPeA	ug/kg	4	3.8	95	60-150	
PFPeS	ug/kg	1.9	1.7	87	55-160	
PFTeDA	ug/kg	1.9	2.0	104	65-150	
PFTrDA	ug/kg	1.9	1.9	98	65-150	
PFUnA	ug/kg	1.9	1.9	98	70-155	
13C2-PFDoA (S)	%.			63	40-130	
13C2-PFTA (S)	%.			57	20-130	
13C24:2FTS (S)	%.			67	40-135	
13C26:2FTS (S)	%.			63	40-215	
13C28:2FTS (S)	%.			68	40-275	
13C3-PFBS (S)	%.			65	40-135	
13C3-PFHxS (S)	%.			64	40-130	
13C3-PFPrA (S)	%.			34	8-130	
13C3HFPO-DA (S)	%.			62	40-130	
13C4-PFBA (S)	%.			49	8-130	
13C4-PFHpA (S)	%.			59	40-130	
13C5-PFHxA (S)	%.			63	40-130	
13C5-PFPeA (S)	%.			64	35-130	
13C6-PFDA (S)	%.			63	40-130	
13C7-PFUdA (S)	%.			67	40-130	
13C8-PFOA (S)	%.			63	40-130	
13C8-PFOS (S)	%.			64	40-130	
13C8-PFOSA (S)	%.			61	40-130	
13C9-PFNA (S)	%.			64	40-130	
d3-MeFOSAA (S)	%.			57	40-135	
d3-NMeFOSA (S)	%.			59	10-130	
d5-EtFOSAA (S)	%.			58	40-150	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

LABORATORY CONTROL SAMPLE: 5224343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			58	10-130	
d7-NMeFOSE (S)	%.			57	20-130	
d9-NEtFOSE (S)	%.			59	15-130	

LABORATORY CONTROL SAMPLE: 5224344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ug/kg	1.5	1.4	93	45-160	
3:3 FTCA	ug/kg	2	1.4	69	45-130	
4:2 FTS	ug/kg	1.5	1.3	89	60-150	
5:3 FTCA	ug/kg	9.9	8.7	87	60-130	
6:2 FTS	ug/kg	1.5	1.4	93	55-200	
7:3 FTCA	ug/kg	9.9	8.5	86	60-150	
8:2 FTS	ug/kg	1.5	1.6	102	70-150	
9Cl-PF3ONS	ug/kg	1.5	1.4	96	70-150	
ADONA	ug/kg	1.5	1.4	94	70-160	
HFPO-DA	ug/kg	1.6	1.3	83	70-145	
NEtFOSA	ug/kg	0.38	0.35	92	70-140	
NEtFOSAA	ug/kg	0.38	0.33	86	65-165	
NEtFOSE	ug/kg	3.8	3.7	97	70-135	
NFDHA	ug/kg	0.8	0.73	91	60-155	
NMeFOSA	ug/kg	0.38	0.38	99	70-155	
NMeFOSAA	ug/kg	0.38	0.35	92	65-155	
NMeFOSE	ug/kg	3.8	3.7	95	70-140	
PFBA	ug/kg	1.6	1.4	89	70-140	
PFBS	ug/kg	0.35	0.30	86	65-145	
PFDA	ug/kg	0.38	0.35	90	70-155	
PFDoA	ug/kg	0.38	0.38	98	70-150	
PFDoS	ug/kg	0.38	0.36	94	25-160	
PFDS	ug/kg	0.38	0.32	84	40-155	
PFEESA	ug/kg	0.7	0.67	95	70-140	
PFHpA	ug/kg	0.38	0.34	88	65-145	
PFHpS	ug/kg	0.38	0.35	92	65-155	
PFHxA	ug/kg	0.38	0.34	90	65-140	
PFHxS	ug/kg	0.35	0.32	92	60-150	
PFMBA	ug/kg	0.8	0.69	87	60-150	
PFMPA	ug/kg	0.8	0.78	97	30-140	
PFNA	ug/kg	0.38	0.35	90	70-155	
PFNS	ug/kg	0.38	0.33	86	55-140	
PFOA	ug/kg	0.38	0.34	89	70-150	
PFOS	ug/kg	0.38	0.31	82	65-160	
PFOSA	ug/kg	0.38	0.37	95	70-140	
PFPeA	ug/kg	0.8	0.71	89	60-150	
PFPeS	ug/kg	0.38	0.33	86	55-160	
PFTeDA	ug/kg	0.38	0.35	92	65-150	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

LABORATORY CONTROL SAMPLE: 5224344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ug/kg	0.38	0.36	94	65-150	
PFUnA	ug/kg	0.38	0.35	92	70-155	
13C2-PFDoA (S)	%.			62	40-130	
13C2-PFTA (S)	%.			57	20-130	
13C24:2FTS (S)	%.			70	40-135	
13C26:2FTS (S)	%.			73	40-215	
13C28:2FTS (S)	%.			71	40-275	
13C3-PFBS (S)	%.			68	40-135	
13C3-PFHxS (S)	%.			65	40-130	
13C3-PFPrA (S)	%.			35	8-130	
13C3HFPO-DA (S)	%.			66	40-130	
13C4-PFBA (S)	%.			54	8-130	
13C4-PFHpA (S)	%.			63	40-130	
13C5-PFHxA (S)	%.			64	40-130	
13C5-PFPeA (S)	%.			67	35-130	
13C6-PFDA (S)	%.			64	40-130	
13C7-PFUdA (S)	%.			68	40-130	
13C8-PFOA (S)	%.			65	40-130	
13C8-PFOS (S)	%.			64	40-130	
13C8-PFOSA (S)	%.			58	40-130	
13C9-PFNA (S)	%.			66	40-130	
d3-MeFOSAA (S)	%.			60	40-135	
d3-NMeFOSA (S)	%.			55	10-130	
d5-EtFOSAA (S)	%.			62	40-150	
d5-NEtFOSA (S)	%.			55	10-130	
d7-NMeFOSE (S)	%.			54	20-130	
d9-NEtFOSE (S)	%.			54	15-130	

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QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

QC Batch: 1001968
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10730729017, 10730729018

METHOD BLANK: 5225424 Matrix: Water
Associated Lab Samples: 10730729017, 10730729018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	04/23/25 17:38	
3:3 FTCA	ng/L	ND	8.0	04/23/25 17:38	
4:2 FTS	ng/L	ND	6.4	04/23/25 17:38	
5:3 FTCA	ng/L	ND	40.0	04/23/25 17:38	
6:2 FTS	ng/L	ND	6.4	04/23/25 17:38	
7:3 FTCA	ng/L	ND	40.0	04/23/25 17:38	
8:2 FTS	ng/L	ND	6.4	04/23/25 17:38	
9Cl-PF3ONS	ng/L	ND	6.4	04/23/25 17:38	
ADONA	ng/L	ND	6.4	04/23/25 17:38	
HFPO-DA	ng/L	ND	6.4	04/23/25 17:38	
NEtFOSA	ng/L	ND	1.6	04/23/25 17:38	
NEtFOSAA	ng/L	ND	1.6	04/23/25 17:38	
NEtFOSE	ng/L	ND	16.0	04/23/25 17:38	
NFDHA	ng/L	ND	3.2	04/23/25 17:38	
NMeFOSA	ng/L	ND	1.6	04/23/25 17:38	
NMeFOSAA	ng/L	ND	1.6	04/23/25 17:38	
NMeFOSE	ng/L	ND	16.0	04/23/25 17:38	
PFBA	ng/L	ND	6.4	04/23/25 17:38	
PFBS	ng/L	ND	1.6	04/23/25 17:38	
PFDA	ng/L	ND	1.6	04/23/25 17:38	
PFDoA	ng/L	ND	1.6	04/23/25 17:38	
PFDoS	ng/L	ND	1.6	04/23/25 17:38	
PFDS	ng/L	ND	1.6	04/23/25 17:38	
PFEESA	ng/L	ND	3.2	04/23/25 17:38	
PFHpA	ng/L	ND	1.6	04/23/25 17:38	
PFHpS	ng/L	ND	1.6	04/23/25 17:38	
PFHxA	ng/L	ND	1.6	04/23/25 17:38	
PFHxS	ng/L	ND	1.6	04/23/25 17:38	
PFMBA	ng/L	ND	3.2	04/23/25 17:38	
PFMPA	ng/L	ND	3.2	04/23/25 17:38	
PFNA	ng/L	ND	1.6	04/23/25 17:38	
PFNS	ng/L	ND	1.6	04/23/25 17:38	
PFOA	ng/L	ND	1.6	04/23/25 17:38	
PFOS	ng/L	ND	1.6	04/23/25 17:38	
PFOSA	ng/L	ND	1.6	04/23/25 17:38	
PFPeA	ng/L	ND	3.2	04/23/25 17:38	
PFPeS	ng/L	ND	1.6	04/23/25 17:38	
PFTeDA	ng/L	ND	1.6	04/23/25 17:38	
PFTrDA	ng/L	ND	1.6	04/23/25 17:38	
PFUnA	ng/L	ND	1.6	04/23/25 17:38	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

METHOD BLANK: 5225424 Matrix: Water
Associated Lab Samples: 10730729017, 10730729018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	87	10-130	04/23/25 17:38	
13C2-PFTA (S)	%.	81	10-130	04/23/25 17:38	
13C24:2FTS (S)	%.	98	40-200	04/23/25 17:38	
13C26:2FTS (S)	%.	88	40-200	04/23/25 17:38	
13C28:2FTS (S)	%.	83	40-300	04/23/25 17:38	
13C3-PFBS (S)	%.	92	40-135	04/23/25 17:38	
13C3-PFHxS (S)	%.	88	40-130	04/23/25 17:38	
13C3-PFPrA (S)	%.	98	5-130	04/23/25 17:38	
13C3HFPO-DA (S)	%.	92	40-130	04/23/25 17:38	
13C4-PFBA (S)	%.	90	5-130	04/23/25 17:38	
13C4-PFHpA (S)	%.	89	40-130	04/23/25 17:38	
13C5-PFHxA (S)	%.	91	40-130	04/23/25 17:38	
13C5-PFPeA (S)	%.	92	40-130	04/23/25 17:38	
13C6-PFDA (S)	%.	92	40-130	04/23/25 17:38	
13C7-PFUdA (S)	%.	89	30-130	04/23/25 17:38	
13C8-PFOA (S)	%.	85	40-130	04/23/25 17:38	
13C8-PFOS (S)	%.	86	40-130	04/23/25 17:38	
13C8-PFOSA (S)	%.	77	40-130	04/23/25 17:38	
13C9-PFNA (S)	%.	89	40-130	04/23/25 17:38	
d3-MeFOSAA (S)	%.	82	40-170	04/23/25 17:38	
d3-NMeFOSA (S)	%.	74	10-130	04/23/25 17:38	
d5-EtFOSAA (S)	%.	79	25-135	04/23/25 17:38	
d5-NEtFOSA (S)	%.	71	10-130	04/23/25 17:38	
d7-NMeFOSE (S)	%.	71	10-130	04/23/25 17:38	
d9-NEtFOSE (S)	%.	71	10-130	04/23/25 17:38	

LABORATORY CONTROL SAMPLE: 5225425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	82.7	110	55-160	
3:3 FTCA	ng/L	99.2	93.0	94	65-130	
4:2 FTS	ng/L	75.2	74.3	99	70-145	
5:3 FTCA	ng/L	496	465	94	70-135	
6:2 FTS	ng/L	76.8	80.3	105	65-155	
7:3 FTCA	ng/L	496	492	99	50-145	
8:2 FTS	ng/L	76.8	83.2	108	60-150	
9Cl-PF3ONS	ng/L	75.2	78.9	105	70-155	
ADONA	ng/L	75.2	85.2	113	65-145	
HFPO-DA	ng/L	80	82.7	103	70-140	
NEtFOSA	ng/L	19.2	18.4	96	65-145	
NEtFOSAA	ng/L	19.2	18.9	99	70-145	
NEtFOSE	ng/L	192	186	97	70-135	
NFDHA	ng/L	40	38.6	96	50-150	
NMeFOSA	ng/L	19.2	19.0	99	60-150	

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(612)607-1700

QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

LABORATORY CONTROL SAMPLE: 5225425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ng/L	19.2	18.5	97	50-140	
NMeFOSE	ng/L	192	180	94	70-145	
PFBA	ng/L	80	79.9	100	70-140	
PFBS	ng/L	17.6	17.6	100	60-145	
PFDA	ng/L	19.2	19.6	102	70-140	
PFDoA	ng/L	19.2	18.6	97	70-140	
PFDoS	ng/L	19.2	20.7	108	50-145	
PFDS	ng/L	19.2	17.5	91	60-145	
PFEESA	ng/L	35.2	35.3	100	70-140	
PFHpA	ng/L	19.2	20.8	108	70-150	
PFHpS	ng/L	19.2	18.3	95	70-150	
PFHxA	ng/L	19.2	18.6	97	70-145	
PFHxS	ng/L	17.6	17.6	100	65-145	
PFMBA	ng/L	40	38.6	97	60-150	
PFMPA	ng/L	40	39.4	98	55-140	
PFNA	ng/L	19.2	20.2	105	70-150	
PFNS	ng/L	19.2	18.3	95	65-145	
PFOA	ng/L	19.2	19.0	99	70-150	
PFOS	ng/L	19.2	17.0	89	55-150	
PFOSA	ng/L	19.2	20.9	109	70-145	
PFPeA	ng/L	40	39.3	98	65-135	
PFPeS	ng/L	19.2	18.6	97	65-140	
PFTeDA	ng/L	19.2	20.7	108	60-140	
PFTrDA	ng/L	19.2	20.9	109	65-140	
PFUnA	ng/L	19.2	20.7	108	70-145	
13C2-PFDoA (S)	%.			49	10-130	
13C2-PFTA (S)	%.			51	10-130	
13C24:2FTS (S)	%.			56	40-200	
13C26:2FTS (S)	%.			48	40-200	
13C28:2FTS (S)	%.			46	40-300	
13C3-PFBS (S)	%.			52	40-135	
13C3-PFHxS (S)	%.			50	40-130	
13C3-PFPrA (S)	%.			59	5-130	
13C3HFPO-DA (S)	%.			53	40-130	
13C4-PFBA (S)	%.			55	5-130	
13C4-PFHpA (S)	%.			50	40-130	
13C5-PFHxA (S)	%.			54	40-130	
13C5-PFPeA (S)	%.			54	40-130	
13C6-PFDA (S)	%.			52	40-130	
13C7-PFUdA (S)	%.			52	30-130	
13C8-PFOA (S)	%.			52	40-130	
13C8-PFOS (S)	%.			49	40-130	
13C8-PFOSA (S)	%.			44	40-130	
13C9-PFNA (S)	%.			50	40-130	
d3-MeFOSAA (S)	%.			45	40-170	
d3-NMeFOSA (S)	%.			38	10-130	
d5-EtFOSAA (S)	%.			46	25-135	

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(612)607-1700

QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

LABORATORY CONTROL SAMPLE: 5225425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			41	10-130	
d7-NMeFOSE (S)	%.			44	10-130	
d9-NEtFOSE (S)	%.			43	10-130	

LABORATORY CONTROL SAMPLE: 5225426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	9.6	79	55-160	
3:3 FTCA	ng/L	15.9	14.4	91	65-130	
4:2 FTS	ng/L	12	10.6	88	70-145	
5:3 FTCA	ng/L	79.4	71.2	90	70-135	
6:2 FTS	ng/L	12.3	10.1	82	65-155	
7:3 FTCA	ng/L	79.4	74.4	94	50-145	
8:2 FTS	ng/L	12.3	10.9	89	60-150	
9Cl-PF3ONS	ng/L	12	11.6	97	70-155	
ADONA	ng/L	12	11.7	98	65-145	
HFPO-DA	ng/L	12.8	11.1	87	70-140	
NEtFOSA	ng/L	3.1	3.0	97	65-145	
NEtFOSAA	ng/L	3.1	2.7	87	70-145	
NEtFOSE	ng/L	30.7	29.3	95	70-135	
NFDHA	ng/L	6.4	5.0	78	50-150	
NMeFOSA	ng/L	3.1	2.9	95	60-150	
NMeFOSAA	ng/L	3.1	2.7	86	50-140	
NMeFOSE	ng/L	30.7	27.6	90	70-145	
PFBA	ng/L	12.8	11.4	89	70-140	
PFBS	ng/L	2.8	2.4	84	60-145	
PFDA	ng/L	3.1	2.7	89	70-140	
PFDoA	ng/L	3.1	2.9	93	70-140	
PFDoS	ng/L	3.1	2.6	86	50-145	
PFDS	ng/L	3.1	2.4	77	60-145	
PFEESA	ng/L	5.6	5.1	90	70-140	
PFHpA	ng/L	3.1	2.8	90	70-150	
PFHpS	ng/L	3.1	2.8	92	70-150	
PFHxA	ng/L	3.1	2.9	93	70-145	
PFHxS	ng/L	2.8	2.6	92	65-145	
PFMBA	ng/L	6.4	5.4	85	60-150	
PFMPA	ng/L	6.4	5.8	91	55-140	
PFNA	ng/L	3.1	2.7	87	70-150	
PFNS	ng/L	3.1	2.6	86	65-145	
PFOA	ng/L	3.1	2.8	92	70-150	
PFOS	ng/L	3.1	2.6	84	55-150	
PFOSA	ng/L	3.1	2.8	92	70-145	
PFPeA	ng/L	6.4	5.4	84	65-135	
PFPeS	ng/L	3.1	2.6	84	65-140	
PFTeDA	ng/L	3.1	2.8	91	60-140	

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(612)607-1700

QUALITY CONTROL DATA

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

LABORATORY CONTROL SAMPLE: 5225426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ng/L	3.1	2.7	89	65-140	
PFUnA	ng/L	3.1	2.8	90	70-145	
13C2-PFDoA (S)	%.			89	10-130	
13C2-PFTA (S)	%.			85	10-130	
13C24:2FTS (S)	%.			111	40-200	
13C26:2FTS (S)	%.			104	40-200	
13C28:2FTS (S)	%.			93	40-300	
13C3-PFBS (S)	%.			107	40-135	
13C3-PFHxS (S)	%.			102	40-130	
13C3-PFPrA (S)	%.			108	5-130	
13C3HFPO-DA (S)	%.			100	40-130	
13C4-PFBA (S)	%.			99	5-130	
13C4-PFHpA (S)	%.			98	40-130	
13C5-PFHxA (S)	%.			100	40-130	
13C5-PFPeA (S)	%.			100	40-130	
13C6-PFDA (S)	%.			102	40-130	
13C7-PFUdA (S)	%.			94	30-130	
13C8-PFOA (S)	%.			103	40-130	
13C8-PFOS (S)	%.			93	40-130	
13C8-PFOSA (S)	%.			80	40-130	
13C9-PFNA (S)	%.			93	40-130	
d3-MeFOSAA (S)	%.			82	40-170	
d3-NMeFOSA (S)	%.			68	10-130	
d5-EtFOSAA (S)	%.			77	25-135	
d5-NEtFOSA (S)	%.			69	10-130	
d7-NMeFOSE (S)	%.			73	10-130	
d9-NEtFOSE (S)	%.			72	10-130	

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QUALIFIERS

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10730729

[1]	Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size, and any dilutions. Please see the Analytical Results section of this report for applicable Dry Weight / %M per Sample ID.

BATCH QUALIFIERS

Batch: 1002206

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
[1]	On 4/17/25 the continuing calibration verification was below the method acceptance limit for dibromochloromethane, bromoform and 1,2-dibromo-3-chloropropane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
S0	Surrogate recovery outside laboratory control limits.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10730729007	**P-5 (8-10)**	EPA 3546	932307	OA2	932509
10730729008	**P-5 (14-16)**	EPA 3546	932307	OA2	932509
10730729009	**P-6 (6-8)**	EPA 3546	932307	OA2	932509
10730729010	**P-6 (14-16)**	EPA 3546	932307	OA2	932509
10730729011	**P-7 (8-10)**	EPA 3546	932307	OA2	932509
10730729012	**P-7 (14-16)**	EPA 3546	932307	OA2	932509
10730729013	**P-8 (4-6)**	EPA 3546	932307	OA2	932509
10730729014	**P-8 (14-16)**	EPA 3546	932307	OA2	932509
10730729015	**P-9 (8-10)**	EPA 3546	932307	OA2	932509
10730729016	**P-9 (14-16)**	EPA 3546	932307	OA2	932509
10730729007	**P-5 (8-10)**	8021/OA1	2496507	OA1	2496507
10730729008	**P-5 (14-16)**	8021/OA1	2496507	OA1	2496507
10730729009	**P-6 (6-8)**	8021/OA1	2496507	OA1	2496507
10730729010	**P-6 (14-16)**	8021/OA1	2496507	OA1	2496507
10730729011	**P-7 (8-10)**	8021/OA1	2496507	OA1	2496507
10730729012	**P-7 (14-16)**	8021/OA1	2496507	OA1	2496507
10730729013	**P-8 (4-6)**	8021/OA1	2497519	OA1	2497519
10730729014	**P-8 (14-16)**	8021/OA1	2497519	OA1	2497519
10730729015	**P-9 (8-10)**	8021/OA1	2497519	OA1	2497519
10730729016	**P-9 (14-16)**	8021/OA1	2497519	OA1	2497519
10730729001	**P-1 (8-10)**	ASTM D2974	1001218		
10730729002	**P-2 (6-8)**	ASTM D2974	1001218		
10730729003	**P-2 (14-16)**	ASTM D2974	1001218		
10730729004	**P-3 (6-8)**	ASTM D2974	1001218		
10730729005	**P-3 (14-16)**	ASTM D2974	1001218		
10730729006	**P-4 (6-8)**	ASTM D2974	1001218		
10730729007	**P-5 (8-10)**	ASTM D2974	1001218		
10730729008	**P-5 (14-16)**	ASTM D2974	1001218		
10730729009	**P-6 (6-8)**	ASTM D2974	1001218		
10730729010	**P-6 (14-16)**	ASTM D2974	1001218		
10730729011	**P-7 (8-10)**	ASTM D2974	1001218		
10730729012	**P-7 (14-16)**	ASTM D2974	1001218		
10730729013	**P-8 (4-6)**	ASTM D2974	1001218		
10730729014	**P-8 (14-16)**	ASTM D2974	1001218		
10730729015	**P-9 (8-10)**	ASTM D2974	1001218		
10730729016	**P-9 (14-16)**	ASTM D2974	1001218		
10730729001	**P-1 (8-10)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729002	**P-2 (6-8)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729003	**P-2 (14-16)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729004	**P-3 (6-8)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729005	**P-3 (14-16)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729006	**P-4 (6-8)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729007	**P-5 (8-10)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729008	**P-5 (14-16)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729009	**P-6 (6-8)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729010	**P-6 (14-16)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729011	**P-7 (8-10)**	EPA 5035/5030B	1002006	EPA 8260D	1002206

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 16.0063603.02 Hot Springs, SD
Pace Project No.: 10730729

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10730729012	**P-7 (14-16)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729013	**P-8 (4-6)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729014	**P-8 (14-16)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729015	**P-9 (8-10)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729016	**P-9 (14-16)**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729019	**Trip Blank Soil**	EPA 5035/5030B	1002006	EPA 8260D	1002206
10730729007	**P-5 (8-10)**	EPA 1633	1001719	EPA 1633	1002626
10730729008	**P-5 (14-16)**	EPA 1633	1001719	EPA 1633	1002626
10730729015	**P-9 (8-10)**	EPA 1633	1001719	EPA 1633	1002626
10730729016	**P-9 (14-16)**	EPA 1633	1001719	EPA 1633	1002626
10730729017	**PFAS Field Blank**	EPA 1633	1001968	EPA 1633	1003279
10730729018	**PFAS Equipment Blank**	EPA 1633	1001968	EPA 1633	1003279

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Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 10730729

10730729

Company Name:	GZA GeoEnvironmental	Contact/Report To:	Aaron Remer
Street Address:	7505 Metro Blvd Suite 300 Edina, MN 55439	Phone #:	952 595-5312
		E-Mail:	aaron.remer@gza.com
		Cc E-Mail:	Jeremy.pawlish@gza.com
Customer Project #:		Invoice To:	Accounts Payable
Project Name:	Hot Springs: 16.0063603.02	Invoice E-Mail:	ap@gza.com
Site Collection Info/Facility ID (as applicable):	505 South 6th St., Hot Springs, SD	Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [X] MT [ ] CT [ ] ET		County / State origin of sample(s):	~~Minnesota~~ Fall River, ~~County~~, SD

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	EPA 1633 DRAFT Soil	EPA 1633 DRAFT Water VOCs by 8260	Equipment Blank - PFAS Soil	Equipment Blank - PFAS Water	Field Blank - PFAS Soil	Moisture	OA-1	OA-2	PFAS Free Water	Trip Blank	Sample Comment
P-1 (8-10)	SS	G			4-9-25	1305	3				2				1					01
P-2 (6-8)	"	"			"	1325	3				2				1					02
P-2 (14-16)	"	"			"	1330	3				2				1					03
P-3 (6-8)	"	"			"	1410	3				2				1					04
P-3 (14-16)	"	"			"	1415	3				2				1					05
P-4 (6-8)	"	"			"	1430	3				2				1					06
P-5 (8-10)	"	"			"	1510	8			2	2				1	2	1		$4	07
P-5 (14-16)	"	"			"	1515	8			2	2				1	2	1			08
P-6 (6-8)	"	"			"	1755	6				2				1	3	1			09
P-6 (14-16)	"	"			"	1800	6				2				1	2	1			10

Specify Container Size **
Identify Container Preservative Type***
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Sylvia Hunter
AcctNum / Client ID:
Table #:
Profile / Template: 24049
Prelog / Bottle Ord. ID: EZ 3246040

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By:
(Printed Name): Colton Brown
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
3	T6	-0.2	6.0, 7.9, 4.0	5.8, 7.7, 3.8	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
1629	4-10-25/1055		4/11/25 855
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	GZA GeoEnvironmental	Contact/Report To:	Aaron Remer
Street Address:	7505 Metro Blvd Suite 300 Edina, MN 55439	Phone #:	952 595-5312
		E-Mail:	aaron.remer@gza.com
		Cc E-Mail:	Jeremy.paulish@gza.com
Customer Project #:			
Project Name:	Hot Springs: 16.0063603.02	Invoice To:	Accounts Payable
		Invoice E-Mail:	ap@gza.com
Site Collection Info/Facility ID (as applicable):	505 South 6th St., Hot Springs, SD	Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [X] MT [ ] CT [ ] ET		County / State origin of sample(s):	~~Minnesota~~ Fall River, SD
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No
		Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	EPA 1633 DRAFT Soil	EPA 1633 DRAFT Water VOCs by 8260	Equipment Blank - PFAS Soil	Equipment Blank - PFAS Water	Field Blank - PFAS Soil	Moisture	OA-1	OA-2	PFAS Free Water	Trip Blank	Sample Comment
P-7 (8-10)	SS	G			4-9-25	1825	6				2				1	2	1			11
P-7 (14-16)						1830	6				2				1	2	1			12
P-8 (4-6)						1840	6				2				1	2	1			13
P-8 (14-16)						1845	6				2				1	2	1			14
P-9 (8-10)						1900	8			2	2				1	2	1			15
P-9 (14-16)						1910	8			2	2				1	2	1			16
PFAS Field Blank	W	—				1715	1							1						~~17~~ ~~18~~
PFAS Equipment Blank	W	—				1710	1					1								NEW 4/11/25 18
TRIP Blank Soil	—	—			—	—	T												1	19

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Sylvia Hunter
AcctNum / Client ID:
Table #:
Profile / Template: 24049
Prelog / Bottle Ord. ID: EZ 3246040

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:	Collected By: (Printed Name)	Colton Brown	Customer Remarks / Special Conditions / Possible Hazards:
	Signature:		

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	4-10-25/1055			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 6

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: DGS 4/11/25 **PROJECT #:** **WO#: 10730729**

PM: SH1 **Due Date: 04/25/25**

CLIENT: VIEAU

Client Name: GZA GeoEnvironmental

Custody Seal Present: ☑ YES ☐ NO **Seals Intact:** ☑ YES ☐ NO

Tracking Number: ☑ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☑ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other: _____ **Biological Tissue Frozen:** ☐ YES ☐ NO

Thermometer: ☐ T1 (0461) ☐ T2 (0431) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0187) ☑ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Temp Blank: ☑ YES ☐ NO

***NOTE:** Temp should be ≤ 6°C, but above freezing.*

Read Temp w/Temp Blank: 6.0, 7.9, 4.0 °C

Correction Factor: -0.2

Corrected Temp w/Temp Blank: 5.8, 7.7, 3.8 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☑ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? **(i.e., Analysis/ID/Date/Time)**	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☑	☐	☐	3.
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other: _____
Rush Turn Around Time Requested?	☐	☑		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date: _____
Sufficient Sample Volume? **(If NO, list approximate volume in section 7.)**	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? **(If NO, fill out section 11.)** Matrix: ☐ Oil ☑ Soil ☐ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.
Sample #: ☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____ **pH Paper Lot #:** ☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____ **Positive for Residual Chlorine (NaOH containers only):** ☐ YES ☐ NO				
Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0142
EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☐	☑	
Extra labels present on soil VOA or WIDRO containers? **(soil only)**	☑	☐	☐	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☑	☐	☐	15. 3 VOA
Trip Blank Custody Seals Present?	☑	☐	☐	Pace Trip Blank Lot # (if purchased): 012725-3

CLIENT NOTIFICATION / RESOLUTION: **Labeled By:** DGS **Line:** 5

Person Contacted & Date/Time: _____ **PM Review & Date:** Sylvia Hunter 4/15/25

***NOTE:** When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.*

ENV-FRM-MIN4-0142 v04_Sample Condition Upon Receipt - Exceptions

Workorder #: _____

No Temp Blank		
Read Temp	**Corrected Temp**	**Average temp**

PM Notified of Out of Temp Cooler? ☐ YES ☐ NO

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

_____

Multiple Cooler Project? ☐ YES ☐ NO

If anything is OVER 6.0°C, you MUST document containers in this section HERE

Tracking Number	Temperature
2874 2667 4810	5.8
2874 2667 4794	7.7
2874 2667 4809	3.8

Out of Temp Sample ID	Container Type	# of Containers
P-1(8-10)	All	3
P-2(6-8)	All	3
P-2(14-16)	All	3
P-3(6-8)	All	3
P-3(14-16)	All	3
P-4(6-8)	All	3
P-5(8-10)	4 VG9M, 1 DWG, 1 JGCU	6
P-5(14-16)	4 VG9M, 1 DWG, 1 JGCU	6
P-6(6-8)	All	6
P-6(14-16)	All	6

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition? YES	In Compliance After Addition? NO	Initials
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	

Comments:

_____

_____

Internal Transfer Chain of Custody

C203

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MN
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 4/11/2025 Results Requested By: 4/25/2025

Workorder: 10730729 **Workorder Name:** 16.0063603.02 Hot Springs, SD

Report To	Subcontract To
Sylvia Hunter Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone 1(612)607-1700	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	VG9M	OA1	LAB USE ONLY
1	P-5 (8-10)	PS	4/9/2025 15:10	10730729007	Solid	2		X	-01
2	P-5 (14-16)	PS	4/9/2025 15:15	10730729008	Solid	2		X	02
3	P-6 (6-8)	PS	4/9/2025 17:55	10730729009	Solid	2		X	-03
4	P-6 (14-16)	PS	4/9/2025 18:00	10730729010	Solid	2		X	04
5	P-7 (8-10)	PS	4/9/2025 18:25	10730729011	Solid	2		X	05
6	P-7 (14-16)	PS	4/9/2025 18:30	10730729012	Solid	2		X	-06
7	P-8 (4-6)	PS	4/9/2025 18:40	10730729013	Solid	2		X	-07
8	P-8 (14-16)	PS	4/9/2025 18:45	10730729014	Solid	2		X	-08
9	P-9 (8-10)	PS	4/9/2025 19:00	10730729015	Solid	2		X	-09
10	P-9 (14-16)	PS	4/9/2025 19:10	10730729016	Solid	2		X	-10

L1846773

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	4/16/25 15:00	[signature]	04/17/25 0900
2				
3				

Comments

Cooler Temperature on Receipt _____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist

COC Seal Present/Intact:	[X] Y ☐ N ☐ NP	If Applicable	
COC Signed/Accurate:	[X] Y ☐ N	VOA Zero Headspace:	☐ Y ☐ N
Bottles arrive intact:	[X] Y ☐ N	Pres. Correct/Check:	☐ Y ☐ N
Correct bottles used:	[X] Y ☐ N		
Sufficient volume sent:	[X] Y ☐ N	Condition: ☐ NCF ☐ OK	
RA Screen <0.5 mR/hr:	[X] Y ☐ N		

Containers: 20

Multiple Parcel Form L# L1149972

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
424355 79 2746	TLA9	0.1	0.4	0.5	(Yes) / No / Not Present
424355 79 2757	TLA9	0.3	0.4	0.7	(Yes) / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Ashley Booten
Name

04/17/2025
Date

WO# : 60473351

60473351

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Conditi		
	Revision: 2	Effective Date: 01/12/2022	Issued By:

Client Name: Pace MN

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 4243 5579 2441 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☑ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T301 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): As-read 5.7 **Corr. Factor** +0.1 **Corrected** 5.8

Date and initials of person examining contents: AF 4/18

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: SL	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **LOT#:**	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☑No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Internal Transfer Chain of Custody

60473351

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MN
Cert. Needed: [X] Yes ☐ No

Workorder: 10730729 **Workorder Name:** 16.0063603.02 Hot Springs, SD

Owner Received Date: 4/11/2025 Results Requested By: 4/25/2025

Report To	Subcontract To
Sylvia Hunter Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone 1(612)607-1700	Pace Analytical Kansas 9608 Loiret Blvd Lenexa, KS 66219 Phone (913)599-5665

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: MeOH	Unpreserved (JGFU)					Requested Analysis: OA-2 TPH as Diesel	OA1											LAB USE ONLY
1	P-5 (8-10)	PS	4/9/2025 15:10	10730729007	Solid		1					X												
2	P-5 (14-16)	PS	4/9/2025 15:15	10730729008	Solid		1					X												
3	P-6 (6-8)	PS	4/9/2025 17:55	10730729009	Solid		1					X												
4	P-6 (14-16)	PS	4/9/2025 18:00	10730729010	Solid		1					X												
5	P-7 (8-10)	PS	4/9/2025 18:25	10730729011	Solid		1					X												
6	P-7 (14-16)	PS	4/9/2025 18:30	10730729012	Solid		1					X												
7	P-8 (4-6)	PS	4/9/2025 18:40	10730729013	Solid		1					X												
8	P-8 (14-16)	PS	4/9/2025 18:45	10730729014	Solid		1					X												
9	P-9 (8-10)	PS	4/9/2025 19:00	10730729015	Solid		1					X												
10	P-9 (14-16)	PS	4/9/2025 19:10	10730729016	Solid		1					X												

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] pace	4/17/25 13:30	[signature] pace	4/16 0800
2				
3				

Comments

Cooler Temperature on Receipt 5.8 °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: ~~Sylvi~~ Pace MN Profile/EZ # 11164

Site: _____ Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	SL																1															
2																	1															
3																	1															
4																	1															
5																	1															
6																	1															
7																	1															
8																	1															
9																	1															
10																	1															
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473351

ATTACHMENT 4

TANK COMPLIANCE TESTING DOCUMENTATION

Minnesota Petroleum Service

682 - 39th Ave North East
Columbia Heights, MN 55421
Phone (763)-780-5191 Fax (763)-780-5472
www.mnpetro.com

Volumetric Line Test Certification

Location:

Hot Springs-Dakotamart
505 6th St
Hot Springs SD 57747

Ph. Fx.

Work Order #:

Testing Date: 06-02-2025

Line Testing Manufacturer: Accurite

Sump #	1	2	3	
Product	E-10	Unleaded	Premium	
Isolation Pump	Silver Bullet	Check Valve	Check Valve	
Isolation Dispenser	Shear Valve	Shear Valve	Shear Valve	
Test Pressure	40.00	30.00	34.00	
Start Time	16:10 (-5 GMT)	16:55 (-5 GMT)	17:34 (-5 GMT)	
End Time	16:40 (-5 GMT)	17:25 (-5 GMT)	18:05 (-5 GMT)	
Start Volume	0.082	0.084	0.082	
End Volume	0.080	0.080	0.079	
Test Time	30 min.	30 min.	30 min.	
Leak Rate	-0.002	-0.004	-0.003	
GPH Leak Rate	-0.004	-0.008	-0.006	
Pass/Fail	Pass	Pass	Pass	

Notes

Technician Jon Bendorf

Technician Signature: _____

Date: 06-02-2025

Minnesota Petroleum Service

682 - 39th Ave North East
Columbia Heights, MN 55421
Phone (763)-780-5191 Fax (763)-780-5472
www.mnpetro.com

Mechanical / Electronic Leak Detection Certification

Location:

Hot Springs-Dakotamart
505 6th St
Hot Springs SD 57747

Ph. Fx.

Work Order #:

Testing Date: 06-02-2025

Sump #	1	2	3	
Product	E-10	Unleaded	Premium	
Leak Detection Type	VMI	VMI	VMI	
Model #	LD-2000	LD-2000	LD-2000	
Opening Time	6	2	4	
Operating Pressure	26.00	20.00	22.00	
Check Valve Pressure	26.00	20.00	22.00	
Meter Pressure	10	11	9	
3.0 GPH Leak Detected	Pass	Pass	Pass	

Notes

Technician Jon Bendorf

Technician Signature: 

Date: 06-02-2025

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

UST shear valve inspection form

Underground Storage Tanks (UST) Program

Doc Type: Compliance Certification

Purpose: This form is for documenting the inspection of the shear valves. See PEI/RP1200, Section 10 for inspection procedures.

Facility information

Facility name: Hot Springs Dakotamart

Facility address: 505 6th St Facility ID#:

City: Hot Springs State: SD Zip code: 57747

Owner name:

Mailing address:

City: State: Zip code:

Phone: Fax: Email:

Testing information

1. Product grade	E10-87-Pre	E10-87-Pre	E10-87-Pre	E10-87-Pre		
2. Dispenser ID#	1/2	3/4	5/6	7/8		
3. Shear valve brand and model	OPW	OPW	OPW	OPW		
4. Is the shear valve a double poppet?	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No
5. Is the shear valve secondarily contained?	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No
6. Is the shear valve rigidly anchored to the dispenser box frame or dispenser island per the manufacturer's specifications?	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No
7. Is the shear section positioned between ½ inch above or below the top surface of the dispenser island?	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8. Is the lever arm free to move?	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
9. Does the lever arm snap shut the poppet valve?	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
10. Can any product be dispensed when the product shear valve is closed?	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No
A "No" in lines 6-9 or a "Yes" for line 10 indicates a failure.						
Test results:	☐ Pass ☒ Fail	☐ Pass ☒ Fail	☐ Pass ☒ Fail	☐ Pass ☒ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

Comments:

Testing company name: Minnesota Petroleum Tester's name: Jon Bendorf

Date (mm/dd/yyyy): 6/2/2025 Tester's signature: Jon Bendorf