

CTEH - ER

Sample Delivery Group: L1849510
Samples Received: 04/18/2025
Project Number: PROJ-054017
Description: Bishop Loss of Containment Incident

Report To: CTEH
5120 North Shore Drive
North Little Rock, AR 72118

Entire Report Reviewed By:



Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

GICO0416SS01BF L1849510-01 Solid

Collected by L. Howes Collected date/time 04/16/25 14:10 Received date/time 04/18/25 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2494489	1	04/28/25 00:00	04/28/25 00:00	ANF	Sheridan, WY 82801

GICO0416SS02BF L1849510-02 Solid

Collected by L. Howes Collected date/time 04/16/25 15:20 Received date/time 04/18/25 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2494489	1	04/28/25 00:00	04/28/25 00:00	ANF	Sheridan, WY 82801

GICO0416SS03BF L1849510-03 Solid

Collected by L. Howes Collected date/time 04/16/25 15:30 Received date/time 04/18/25 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2494489	1	04/28/25 00:00	04/28/25 00:00	ANF	Sheridan, WY 82801

GICO0416SS04BF L1849510-04 Solid

Collected by L. Howes Collected date/time 04/16/25 15:30 Received date/time 04/18/25 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2494489	1	04/28/25 00:00	04/28/25 00:00	ANF	Sheridan, WY 82801

GICO0416SS05BF L1849510-05 Solid

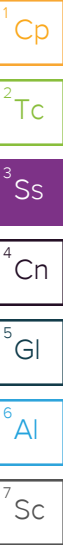
Collected by L. Howes Collected date/time 04/16/25 16:17 Received date/time 04/18/25 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2494489	1	04/28/25 00:00	04/28/25 00:00	ANF	Sheridan, WY 82801

GICO0416SS06BF L1849510-06 Solid

Collected by L. Howes Collected date/time 04/16/25 16:55 Received date/time 04/18/25 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2494489	1	04/28/25 00:00	04/28/25 00:00	ANF	Sheridan, WY 82801



CASE NARRATIVE

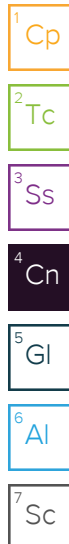
Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

Project Comments

L1849510 -01, -02, -03, -04, -05, -06 contains subout data that is included after the chain of custody.



GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Gl

⁶ Al

⁷ Sc

ACCREDITATIONS & LOCATIONS

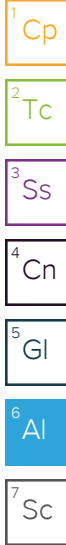
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

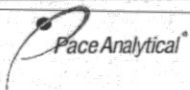
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or
MTJL Log-in Number Here

A059

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: CTEH	Billing Information: ctehap@montrose-env.com
Address:	

Report To: Lab Results; Kyle Lawrence; Lisa Howes; Andrew Henault	Email To: labresults@cteh.com; kylelawrence@cteh.com; lhowes@cteh.com; ahenault@cteh.com
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Copy To:	Site Collection Info/Address:
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Customer Project Name/Number: Bishop Loss of Containment PROJ-054017	State: CO County/City: Galeton Time Zone Collect: [] PT [X] MT [] CT [] ET
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Phone:	Site/Facility ID #:	Compliance Monitoring? [] Yes [] No
Email:		
Collected By (print): L. Howes	Purchase Order #: _____ Quote #: _____	DW PWS ID #: _____ DW Location Code: _____
Collected By (signature): <i>L. Howes</i>	Turnaround Date Required:	Immediately Packed on Ice: [] Yes [X] No
Sample Disposal: [] Dispose as appropriate [] Return [] Archive: _____ [X] Hold: 2X	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [X] 3 Day [] 4 Day [] Standard	Field Filtered (if applicable): [] Yes [] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Date	Time	No. of Cntrs	Container Type: Plastic (P) or Glass (G)
GICO0416S001BF	SL	Grab	4/16/2025	1410	2	P
GICO0416S002BF	SL	Grab	4/16/2025	1520	2	P
GICO0416S003BF	SL	Grab	4/16/2025	1530	2	P
GICO0416S004BF	SL	Grab	4/16/2025	1530	2	P
GICO0416S005BF	SL	Grab	4/16/2025	1617	2	P
GICO0416S006BF	SL	Grab	4/16/2025	1655	2	P

Container Preservative Type **	Lab Project Manager:
U U U U U	

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses	Lab Profile/Line:
W846 9081 - Cation Exchange Capacity	Lab Sample Receipt Checklist:
USDA 4F - Exchangeable Sodium Percentage	Custody Seals Present/Intact <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
9045D / Sat. Paste - pH	Custody Signatures Present <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
Walkley-Black - % Organic Matter	Collector Signature Present <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
9056A / Sat. Paste - Chloride	Bottles Intact <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	Correct Bottles <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	Sufficient Volume <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	Samples Received on Ice <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	VOA - Headspace Acceptable <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	USDA Regulated Soils <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	Samples in Holding Time <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	Residual Chlorine Present <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	Cl Strips: _____
	Sample pH Acceptable <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	pH Strips: _____
	Sulfide Present <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
	Lead Acetate Strips: _____
	LAB USE ONLY:
	Lab Sample # / Comments:
	<i>L5849510</i>
	<i>-01</i>
	<i>-02</i>
	<i>-03</i>
	<i>-04</i>
	<i>-05</i>
	<i>-06</i>

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A	LAB Sample Temperature Info:
	Packing Material Used:	Lab Tracking #:	Temp Blank Received: Y <input checked="" type="radio"/> N <input type="radio"/> NA
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier	Therm ID#: _____ Cooler 1 Temp Upon Receipt: _____ °C Cooler 1 Therm Corr. Factor: _____ °C Cooler 1 Corrected Temp: _____ °C Comments: (12)

Relinquished by/Company: (Signature)	Date/Time: <i>1725</i> <i>04-17-25</i>	Received by/Company: (Signature)	Date/Time: <i>1725</i> <i>04-17-25</i>	Trip Blank Received: Y N NA HCL MeOH TSP Other Non Conformance(s): _____ Page: <u>1</u> YES / NO of: <u>1</u>
Relinquished by/Company: (Signature)	Date/Time: <i>1725</i> <i>4-17-25</i>	Received by/Company: (Signature)	Date/Time: _____	
Relinquished by/Company: (Signature)	Date/Time: _____	Received by/Company: (Signature)	Date/Time: <i>1030</i> <i>4-18-25</i>	



Date: 4/28/2025

CLIENT: Pace National
Project: WG2494489 L1849510
Lab Order: S2504325

CASE NARRATIVE
Report ID: S2504325001

Entire Report Reviewed by: *Crystal Herman*
Crystal Herman, Mining Supervisor

Samples L1849510-01 GICO0416SS01BF, L1849510-02 GICO0416SS02BF, L1849510-03 GICO0416SS03BF, L1849510-04 GICO0416SS04BF, L1849510-05 GICO0416SS05BF and L1849510-06 GICO0416SS06BF were received on April 21, 2025.

Samples were analyzed using the methods outlined in the following references:

- U.S.E.P.A. 600/2-78-054 "Field and Laboratory Methods Applicable to Overburden and Mining Soils", 1978
- American Society of Agronomy, Number 9, Part 2, 1982
- USDA Handbook 60 "Diagnosis and Improvement of Saline and Alkali Soils", 1969
- Wyoming Department of Environmental Quality, Land Quality Division, Guideline No. 1, 1984
- New Mexico Overburden and Soils Inventory and Handling Guideline, March 1987
- State of Utah, Division of Oil, Gas, and Mining: Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining, April 1988
- Montana Department of State Lands, Reclamation Division: Soil, Overburden, and Regraded Spoil Guidelines, August 1998
- State of Nevada Modified Sobek Procedure
- Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Pace Analytical (Formerly Inter-Mountain Laboratories) except as indicated in this case narrative.



Date: 4/28/2025

Definitions

RL Reporting Limit

Qualifiers

- * Value exceeds Maximum Contaminant Level
- A Check MSA specifications
- B Analyte detected in the associated Method Blank
- C Calculated Value
- D Report limit raised due to dilution
- E Value above quantitation range
- G Analyzed at Pace Gillette, WY laboratory
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- L Analyzed by another laboratory
- M Value exceeds Monthly Ave or MCL or is less than LCL
- N Sample analyzed outside of compliance requirements
- ND Not Detected at the Reporting Limit
- O Outside the Range of Dilutions
- P Sample preserved in lab at time of receipt
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- U Analyte below method detection limit
- X Matrix Effect



Pace Analytical

1673 Terra Avenue Sheridan, WY 82801

ph: (307) 672-8945

Soil Analysis Report

Pace National

12065 Lebanon Road

Mt. Juliet, TN 37122

Report ID: S2504325001

Project: WG2494489 L1849510

Date Received: 4/21/2025

Date Reported: 4/28/2025

Work Order: S2504325

Lab ID	Sample ID	CEC
		meq/100g
S2504325-001	L1849510-01 GICO0416SS01BF	23
S2504325-002	L1849510-02 GICO0416SS02BF	12
S2504325-003	L1849510-03 GICO0416SS03BF	18
S2504325-004	L1849510-04 GICO0416SS04BF	24
S2504325-005	L1849510-05 GICO0416SS05BF	18
S2504325-006	L1849510-06 GICO0416SS06BF	25

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, TOC=Total Organic Carbon

Reviewed by: Crystal Herman
Crystal Herman, Mining Supervisor



ANALYTICAL QC SUMMARY REPORT

CLIENT: Pace National
Work Order: S2504325
Project: WG2494489 L1849510

Date: 4/28/2025
Report ID: S2504325001

Cation Exchange Capacity	Sample Type	MBLK	Units: meq/100g				
CEC BLK (04/25/25 13:54)	RunNo: 230251						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual

Cation Exchange Capacity ND 2

Cation Exchange Capacity	Sample Type	LCS	Units: meq/100g				
PLANO QC (04/25/25 13:52)	RunNo: 230251						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual

Cation Exchange Capacity 23 2 21.2 107 70 - 130

Cation Exchange Capacity	Sample Type	DUP	Units: meq/100g				
S2504325-005AD (04/25/25 13:30)	RunNo: 230251						
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual

Cation Exchange Capacity 19 2 18 8.51 20

Sub-Contract Chain of Custody

Batch Date/Time: 04/18/25 15:35
Sub-Contract Lab: PACESWY
Address: 1673 Terra Ave
City/State: Sheridan, WY 82801
Contact: john.jacobs@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2494489
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 04/23/25
ESC Purchase Order #: L1849510
Send Reports to: James C Huckaba



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 Phone: (615) 773-9756
 Fax: (615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
GICO0416SS01BF 4ozClr-NoPres - 51584710	SS	CO	04/16/25 14:10	Cation Exchange Capacity	1. L1849510-01	*ESI*, CTEH EDD
GICO0416SS02BF 4ozClr-NoPres - 51584712	SS	CO	04/16/25 15:20	Cation Exchange Capacity	2. L1849510-02	*ESI*, CTEH EDD
GICO0416SS03BF 4ozClr-NoPres - 51584713	SS	CO	04/16/25 15:30	Cation Exchange Capacity	3. L1849510-03	*ESI*, CTEH EDD
GICO0416SS04BF 4ozClr-NoPres - 51584714	SS	CO	04/16/25 15:30	Cation Exchange Capacity	4. L1849510-04	*ESI*, CTEH EDD
GICO0416SS05BF 4ozClr-NoPres - 51584715	SS	CO	04/16/25 16:17	Cation Exchange Capacity	5. L1849510-05	*ESI*, CTEH EDD
GICO0416SS06BF 4ozClr-NoPres - 51584716	SS	CO	04/16/25 16:55	Cation Exchange Capacity	6. L1849510-06	*ESI*, CTEH EDD

*= Container used for multiple Samples and/or Analyses

Relinquished by: [Signature] Date 4-18-25
 Received by: [Signature] Date 4/21/25
 Relinquished by: _____ Date _____
 Received by: _____ Date _____

fast. 01 4/21/25
 cust. seal
 intact

NO ICE