

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 23, 2025

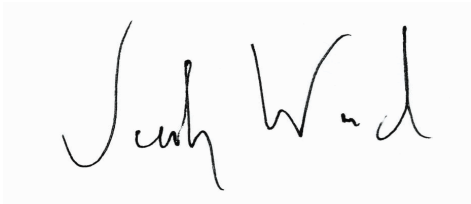
Ty Smith
Lesair Environmental
11786 Shaffer Place Suite 210
Littleton, CO 80127

RE: RU 5-4

Work Order #2506039

Enclosed are the results of analyses for samples received by Summit Scientific on 06/12/25 13:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial 'J' and a distinct 'W'.

Jacob Wood For Paul Shrewsbury
President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4
Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3 C-a	2506039-01	Soil	06/11/25 12:15	06/12/25 13:50
3 N-a	2506039-02	Soil	06/11/25 12:15	06/12/25 13:50
3 E-a	2506039-03	Soil	06/11/25 12:15	06/12/25 13:50
3 S-a	2506039-04	Soil	06/11/25 12:15	06/12/25 13:50
3 W-a	2506039-05	Soil	06/11/25 12:15	06/12/25 13:50

Case Narrative

Client requested 8270E SIM PAH No Naph be added to all samples on 06/17/2025.
Client requested Boron & 915 Metals be added to samples 3N-a, 3E-a, 3S-a, & 3W-a on 6/19/2025.
This report includes those results.

This is a revision of the report originally sent on 6/19/2025 at 12:25 MT.

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Send Data To:	
Project Manager:	Ty Smith
Email:	TySmith@Lesair.com
Phone Number:	303-903-4443
Company:	Lesair Environmental, Inc.
Address:	11786 Shaffer Place, Unit 210
City/State/Zip:	Littleton, CO 80127

Send Invoice To: 2506039	
Contact:	Doug Storts
Email:	pds@willifordenergy.com
Phone Number:	918-495-2710
Company:	Williford Energy (WEC)
Address:	6100 S Yale Ave STE 2000
City/State/Zip:	Tulsa, OK 74136

Project Name:	RU 5-4	Sample Location:	Rhoades Unit 5-4
Project Number:		Sampled By:	Ty Smith

Sample Information					Matrix*	Preservation						Analysis												
Sample Description	Date Sampled	Time Sampled	No. of Containers	G=Grab, C=Composite		HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)												
3C-a	6/11/2025	12:15	2	G	Soil						X	915 GRP/BTEX+	X	X	X	X	X	X	X	X				
3N-a			2	G							X	915 PRO/ORD	X	X	X	X	X	X	X	X				
3E-a			2	G							X	915 PH	X	X	X	X	X	X	X	X				
3S-a			2	G							X	915 SAR/EC	X	X	X	X	X	X	X	X				
3W-a			2	G							X	915 BORON	X	X	X	X	X	X	X	X				
												915 METALS	X	X	X	X	X	X	X	X				

48 HR TAT

TAT (Business Days)
 48 HR AND STANDARD

NOTES
 HOLD 915 METALS AND 915 BORON TILL APPROV BY TY SMITH

Temperature Received	Temperature Corrected	IR Gun No.
-0.1		

Relinquished By:	<i>Ty Smith</i>	Date:	6/12/25	Time:	13:50
Received By:	<i>Curt Storts</i>	Date:	6/12/25	Time:	13:50

*Choose from: SL- Sludge, DW-Drinking Water, GW- Groundwater, S- Soil/Solids, WW- Wastewater, Specify Other

S₂

S2 Work Order# 2506039

Sample Receipt Checklist

Client: LeSair Client Project ID: RH 5-4

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) -0.1 Thermometer # 2

Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	✓			on ice
If custody seals are present, are they intact? ⁽¹⁾			✓	
Are samples due within 48 hours present?	✓			48hr organics
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD, Total Residual Chlorine (TRC)			✓	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	✓			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	✓			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Were samples provided in appropriate bottleware?	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Will any samples be performed outside of Summit Scientific? Note analysis in comments column			✓	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

AS
Custodian Printed Name

6/12/25
Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 C-a
2506039-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIF0173	06/12/25	06/12/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0434	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIF0174	06/12/25	06/13/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.84	62.7 %	50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Project: RU 5-4

Project Number: [none]
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Reported:
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3 C-a
2506039-01 (Soil)

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PAH by EPA Method 8270E SIM

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0178	06/12/25	06/16/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 C-a
2506039-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.32	0.200	mg/kg dry	1	BIF0175	06/12/25	06/13/25	EPA 6020B
Barium	201	0.400	"	"	"	"	"	"
Cadmium	0.209	0.200	"	"	"	"	"	"
Copper	6.32	0.400	"	"	"	"	"	"
Lead	8.42	0.200	"	"	"	"	"	"
Nickel	8.03	0.400	"	"	"	"	"	"
Silver	0.0299	0.0200	"	"	"	"	"	"
Zinc	28.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0187	06/13/25	06/13/25	Hach 8000	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	509	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	51.9	0.0500	"	"	"	"	"	"	
Sodium	3.54	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0400	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
 06/23/25 09:43

3 C-a
2506039-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.2	%	1	BIF0183	06/13/25	06/13/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

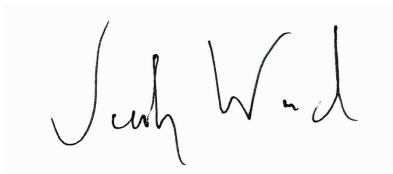
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.42	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

Summit Scientific



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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 N-a
2506039-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIF0173	06/12/25	06/12/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0414	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIF0174	06/12/25	06/13/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.24	65.9 %	50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 N-a
2506039-02 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	62.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0245	06/19/25	06/20/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11786 Shaffer Place Suite 210
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Project: RU 5-4
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06/23/25 09:43

3 N-a
2506039-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.79	0.200	mg/kg dry	1	BIF0247	06/19/25	06/21/25	EPA 6020B	
Barium	203	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.40	0.400	"	"	"	"	"	"	
Lead	5.18	0.200	"	"	"	"	"	"	
Nickel	5.77	0.400	"	"	"	"	"	"	
Silver	0.0235	0.0200	"	"	"	"	"	"	
Zinc	18.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0252	06/20/25	06/20/25	Hach 8000	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	280	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	53.3	0.0500	"	"	"	"	"	"	
Sodium	149	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.14	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Lesair Environmental
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Project: RU 5-4
 Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

3 N-a
2506039-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BIF0183	06/13/25	06/13/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.12	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

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Lesair Environmental
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Project: RU 5-4
Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 E-a
2506039-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIF0173	06/12/25	06/12/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0405	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIF0174	06/12/25	06/13/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.57	68.5 %	50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Littleton CO, 80127

Project: RU 5-4
Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 E-a
2506039-03 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0210	63.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0245	06/19/25	06/20/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
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3 E-a
2506039-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.96	0.200	mg/kg dry	1	BIF0247	06/19/25	06/21/25	EPA 6020B	
Barium	162	0.400	"	"	"	"	"	"	
Cadmium	0.225	0.200	"	"	"	"	"	"	
Copper	5.70	0.400	"	"	"	"	"	"	
Lead	7.94	0.200	"	"	"	"	"	"	
Nickel	7.59	0.400	"	"	"	"	"	"	
Silver	0.0399	0.0200	"	"	"	"	"	"	
Zinc	27.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0252	06/20/25	06/20/25	Hach 8000	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	453	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	78.0	0.0500	"	"	"	"	"	"	
Sodium	173	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.98	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: RU 5-4
 Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

3 E-a
2506039-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.7	%	1	BIF0183	06/13/25	06/13/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.28	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

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Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

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3 S-a
2506039-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIF0173	06/12/25	06/12/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0460	115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIF0174	06/12/25	06/13/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.80	62.4 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 S-a
2506039-04 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0245	73.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	72.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0245	06/19/25	06/20/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: RU 5-4
Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 S-a
2506039-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.64	0.200	mg/kg dry	1	BIF0247	06/19/25	06/21/25	EPA 6020B	
Barium	112	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.08	0.400	"	"	"	"	"	"	
Lead	6.69	0.200	"	"	"	"	"	"	
Nickel	6.65	0.400	"	"	"	"	"	"	
Silver	0.0415	0.0200	"	"	"	"	"	"	
Zinc	22.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0252	06/20/25	06/20/25	Hach 8000	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	267	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	50.1	0.0500	"	"	"	"	"	"	
Sodium	161	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.37	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: RU 5-4
 Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

3 S-a
2506039-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BIF0183	06/13/25	06/13/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

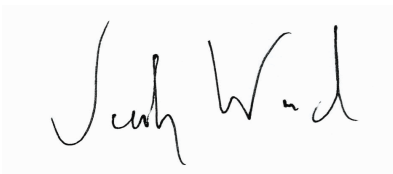
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.53	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.28		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

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Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 W-a
2506039-05 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIF0173	06/12/25	06/12/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0413	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIF0174	06/12/25	06/13/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.81	70.5 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 W-a
2506039-05 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0242	72.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0253	75.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0245	06/19/25	06/20/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: RU 5-4
Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

3 W-a
2506039-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.64	0.200	mg/kg dry	1	BIF0247	06/19/25	06/21/25	EPA 6020B	
Barium	129	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.60	0.400	"	"	"	"	"	"	
Lead	5.41	0.200	"	"	"	"	"	"	
Nickel	5.54	0.400	"	"	"	"	"	"	
Silver	0.0208	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0252	06/20/25	06/20/25	Hach 8000	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	210	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	41.6	0.0500	"	"	"	"	"	"	
Sodium	167	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.76	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: RU 5-4
 Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

3 W-a
2506039-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.7		%	1	BIF0183	06/13/25	06/13/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.11	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **06/11/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BIF0173 - EPA 5030 Soil MS

Blank (BIF0173-BLK1)

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0408		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0390		"	0.0400		97.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0394		"	0.0400		98.5	50-150			

LCS (BIF0173-BS1)

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	0.0994	0.0020	mg/kg	0.100		99.4	70-130			
Toluene	0.0964	0.0050	"	0.100		96.4	70-130			
Ethylbenzene	0.0890	0.0050	"	0.100		89.0	70-130			
m,p-Xylene	0.174	0.010	"	0.200		87.0	70-130			
o-Xylene	0.0958	0.0050	"	0.100		95.8	70-130			
1,2,4-Trimethylbenzene	0.0881	0.0050	"	0.100		88.1	70-130			
1,3,5-Trimethylbenzene	0.0870	0.0050	"	0.100		87.0	70-130			
Naphthalene	0.0894	0.0038	"	0.100		89.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0374		"	0.0400		93.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0390		"	0.0400		97.6	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0386		"	0.0400		96.5	50-150			

Matrix Spike (BIF0173-MS1)

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130			
Toluene	0.113	0.0050	"	0.100	0.00669	106	70-130			
Ethylbenzene	0.0863	0.0050	"	0.100	ND	86.3	70-130			
m,p-Xylene	0.177	0.010	"	0.200	0.00990	83.4	70-130			
o-Xylene	0.103	0.0050	"	0.100	0.00804	94.8	70-130			
1,2,4-Trimethylbenzene	0.714	0.0050	"	0.100	0.275	439	70-130			QM-05
1,3,5-Trimethylbenzene	0.219	0.0050	"	0.100	0.0961	123	70-130			
Naphthalene	ND	0.0038	"	0.100	ND		70-130			QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0413		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0393		"	0.0400		98.2	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.4	50-150			

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Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BIF0173 - EPA 5030 Soil MS

Matrix Spike Dup (BIF0173-MSD1)	Source: 2506033-01			Prepared: 06/12/25 Analyzed: 06/13/25							
Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130	1.47	30		
Toluene	0.105	0.0050	"	0.100	0.00669	98.6	70-130	7.01	30		
Ethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130	1.86	30		
m,p-Xylene	0.179	0.010	"	0.200	0.00990	84.4	70-130	1.13	30		
o-Xylene	0.101	0.0050	"	0.100	0.00804	93.4	70-130	1.38	30		
1,2,4-Trimethylbenzene	0.581	0.0050	"	0.100	0.275	306	70-130	20.6	30		QM-05
1,3,5-Trimethylbenzene	0.188	0.0050	"	0.100	0.0961	91.6	70-130	15.6	30		
Naphthalene	ND	0.0038	"	0.100	ND		70-130		30		QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.4</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>				

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11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BIF0174 - EPA 3550A

Blank (BIF0174-BLK1)

Prepared: 06/12/25 Analyzed: 06/13/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		84.4	50-140				

LCS (BIF0174-BS1)

Prepared: 06/12/25 Analyzed: 06/13/25

C10-C28 (DRO)	520	50	mg/kg	500		104	50-140				
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.7	50-140				

Matrix Spike (BIF0174-MS1)

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

C10-C28 (DRO)	1740	50	mg/kg	500	1370	74.5	50-140				
Surrogate: <i>o</i> -Terphenyl	8.98		"	12.5		71.8	50-140				

Matrix Spike Dup (BIF0174-MSD1)

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

C10-C28 (DRO)	2360	50	mg/kg	500	1370	199	50-140	30.2	20		QM-05
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		83.9	50-140				

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Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BIF0234 - EPA 5030 Soil MS

Blank (BIF0234-BLK1)

Prepared & Analyzed: 06/18/25

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0232		"	0.0333		69.6	40-140			
<i>Surrogate: Fluoranthene-d10</i>	0.0232		"	0.0333		69.5	40-140			

LCS (BIF0234-BS1)

Prepared & Analyzed: 06/18/25

Acenaphthene	0.0235	0.00500	mg/kg	0.0333		70.6	40-140			
Anthracene	0.0249	0.00500	"	0.0333		74.6	40-140			
Benzo (a) anthracene	0.0243	0.00500	"	0.0333		73.0	40-140			
Benzo (a) pyrene	0.0220	0.00500	"	0.0333		65.9	40-140			
Benzo (b) fluoranthene	0.0240	0.00500	"	0.0333		71.9	40-140			
Benzo (k) fluoranthene	0.0194	0.00500	"	0.0333		58.1	40-140			
Chrysene	0.0236	0.00500	"	0.0333		70.7	40-140			
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333		60.3	40-140			
Fluoranthene	0.0235	0.00500	"	0.0333		70.6	40-140			
Fluorene	0.0234	0.00500	"	0.0333		70.2	40-140			
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333		62.0	40-140			
Pyrene	0.0256	0.00500	"	0.0333		76.9	40-140			
1-Methylnaphthalene	0.0232	0.00500	"	0.0333		69.7	40-140			
2-Methylnaphthalene	0.0236	0.00500	"	0.0333		70.8	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0233		"	0.0333		70.0	40-140			
<i>Surrogate: Fluoranthene-d10</i>	0.0243		"	0.0333		73.0	40-140			

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BIF0234 - EPA 5030 Soil MS

Matrix Spike (BIF0234-MS1)	Source: 2506039-05			Prepared & Analyzed: 06/18/25						
Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.2	40-140			
Anthracene	0.0220	0.00500	"	0.0333	ND	65.9	40-140			
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.2	40-140			
Benzo (a) pyrene	0.0189	0.00500	"	0.0333	ND	56.7	40-140			
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1	40-140			
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	40-140			
Chrysene	0.0203	0.00500	"	0.0333	ND	61.0	40-140			
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	40-140			
Fluoranthene	0.0210	0.00500	"	0.0333	ND	63.0	40-140			
Fluorene	0.0214	0.00500	"	0.0333	ND	64.2	40-140			
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	40-140			
Pyrene	0.0212	0.00500	"	0.0333	ND	63.5	40-140			
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.7	40-140			
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.2	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0208</i>		<i>"</i>	<i>0.0333</i>		<i>62.3</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0216</i>		<i>"</i>	<i>0.0333</i>		<i>64.7</i>	<i>40-140</i>			

Matrix Spike Dup (BIF0234-MSD1)	Source: 2506039-05			Prepared & Analyzed: 06/18/25						
Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	64.0	40-140	0.351	30	
Anthracene	0.0220	0.00500	"	0.0333	ND	66.0	40-140	0.0682	30	
Benzo (a) anthracene	0.0222	0.00500	"	0.0333	ND	66.7	40-140	0.657	30	
Benzo (a) pyrene	0.0192	0.00500	"	0.0333	ND	57.7	40-140	1.76	30	
Benzo (b) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	40-140	14.2	30	
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	40-140	7.30	30	
Chrysene	0.0203	0.00500	"	0.0333	ND	60.9	40-140	0.269	30	
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.1	40-140	5.87	30	
Fluoranthene	0.0200	0.00500	"	0.0333	ND	60.1	40-140	4.65	30	
Fluorene	0.0214	0.00500	"	0.0333	ND	64.2	40-140	0.112	30	
Indeno (1,2,3-cd) pyrene	0.0163	0.00500	"	0.0333	ND	48.9	40-140	4.62	30	
Pyrene	0.0233	0.00500	"	0.0333	ND	70.0	40-140	9.73	30	
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.7	40-140	1.73	30	
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.2	40-140	1.61	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0207</i>		<i>"</i>	<i>0.0333</i>		<i>62.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.7</i>	<i>40-140</i>			

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BIF0178 - EPA 3050B

Blank (BIF0178-BLK1)										
					Prepared: 06/12/25 Analyzed: 06/16/25					
Boron	ND	2.00	mg/L wet							
LCS (BIF0178-BS1)										
					Prepared: 06/12/25 Analyzed: 06/16/25					
Boron	5.35	2.00	mg/L wet	4.99	107	80-120				
Duplicate (BIF0178-DUP1)										
					Source: 2506033-01 Prepared: 06/12/25 Analyzed: 06/16/25					
Boron	0.530	2.00	mg/L dry		0.562			5.91	20	
Matrix Spike (BIF0178-MS1)										
					Source: 2506033-01 Prepared: 06/12/25 Analyzed: 06/16/25					
Boron	5.74	2.00	mg/L dry	5.69	0.562	91.1	75-125			
Matrix Spike Dup (BIF0178-MSD1)										
					Source: 2506033-01 Prepared: 06/12/25 Analyzed: 06/16/25					
Boron	6.01	2.00	mg/L dry	5.73	0.562	95.1	75-125	4.49	25	

Batch BIF0245 - EPA 3050B

Blank (BIF0245-BLK1)										
					Prepared: 06/19/25 Analyzed: 06/20/25					
Boron	ND	2.00	mg/L wet							
LCS (BIF0245-BS1)										
					Prepared: 06/19/25 Analyzed: 06/20/25					
Boron	5.30	2.00	mg/L wet	5.00	106	80-120				
Duplicate (BIF0245-DUP1)										
					Source: 2506039-02 Prepared: 06/19/25 Analyzed: 06/20/25					
Boron	0.319	2.00	mg/L dry		0.201			45.5	20	QR-01
Matrix Spike (BIF0245-MS1)										
					Source: 2506039-02 Prepared: 06/19/25 Analyzed: 06/20/25					
Boron	4.44	2.00	mg/L dry	5.74	0.201	73.9	75-125			QM-01

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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4
 Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BIF0245 - EPA 3050B


Matrix Spike Dup (BIF0245-MSD1)

Source: 2506039-02

Prepared: 06/19/25 Analyzed: 06/20/25

Boron	5.10	2.00	mg/L dry	5.78	0.201	84.7	75-125	13.7	25	
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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BIF0175 - EPA 3050B

Blank (BIF0175-BLK1)

Prepared: 06/12/25 Analyzed: 06/13/25

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BIF0175-BS1)

Prepared: 06/12/25 Analyzed: 06/13/25

Arsenic	39.1	0.200	mg/kg wet	38.8	101	80-120
Barium	41.2	0.400	"	38.8	106	80-120
Cadmium	1.97	0.200	"	1.94	102	80-120
Copper	38.5	0.400	"	38.8	99.3	80-120
Lead	19.6	0.200	"	19.4	101	80-120
Nickel	38.9	0.400	"	38.8	100	80-120
Silver	1.97	0.0200	"	1.94	101	80-120
Zinc	38.6	0.400	"	38.8	99.7	80-120
Selenium	4.14	0.260	"	3.88	107	80-120

Duplicate (BIF0175-DUP1)

Source: 2505120-02

Prepared: 06/12/25 Analyzed: 06/16/25

Arsenic	1.18	0.200	mg/kg dry	0.944	22.6	20	QR-04
Barium	16.6	0.400	"	15.5	6.33	20	
Cadmium	0.0591	0.200	"	0.0539	9.28	20	
Copper	3.31	0.400	"	2.01	49.0	20	QR-04
Lead	4.36	0.200	"	3.83	13.0	20	
Nickel	1.47	0.400	"	1.37	6.63	20	
Silver	0.0105	0.0200	"	0.00787	28.6	20	QR-01
Zinc	10.2	0.400	"	12.2	18.4	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BIF0175 - EPA 3050B

Matrix Spike (BIF0175-MS1)

Source: 2505120-02

Prepared: 06/12/25 Analyzed: 06/16/25

Arsenic	41.7	0.200	mg/kg dry	40.1	0.944	102	75-125			
Barium	55.6	0.400	"	40.1	15.5	99.9	75-125			
Cadmium	2.01	0.200	"	2.01	0.0539	97.6	75-125			
Copper	39.3	0.400	"	40.1	2.01	93.0	75-125			
Lead	23.4	0.200	"	20.1	3.83	97.6	75-125			
Nickel	38.1	0.400	"	40.1	1.37	91.6	75-125			
Silver	1.85	0.0200	"	2.01	0.00787	91.8	75-125			
Zinc	47.0	0.400	"	40.1	12.2	86.8	75-125			
Selenium	3.58	0.260	"	4.01	ND	89.3	75-125			

Matrix Spike Dup (BIF0175-MSD1)

Source: 2505120-02

Prepared: 06/12/25 Analyzed: 06/16/25

Arsenic	41.7	0.200	mg/kg dry	40.4	0.944	101	75-125	0.0301	25
Barium	53.1	0.400	"	40.4	15.5	92.9	75-125	4.64	25
Cadmium	2.02	0.200	"	2.02	0.0539	97.4	75-125	0.537	25
Copper	39.0	0.400	"	40.4	2.01	91.5	75-125	0.722	25
Lead	22.6	0.200	"	20.2	3.83	92.6	75-125	3.75	25
Nickel	38.2	0.400	"	40.4	1.37	91.0	75-125	0.0842	25
Silver	1.86	0.0200	"	2.02	0.00787	91.4	75-125	0.275	25
Zinc	49.1	0.400	"	40.4	12.2	91.4	75-125	4.43	25
Selenium	3.71	0.260	"	4.04	ND	91.8	75-125	3.57	25

Batch BIF0247 - EPA 3050B

Blank (BIF0247-BLK1)

Prepared: 06/19/25 Analyzed: 06/21/25

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						
Selenium	ND	0.260	"						

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BIF0247 - EPA 3050B

LCS (BIF0247-BS1)

Prepared: 06/19/25 Analyzed: 06/21/25

Arsenic	40.9	0.200	mg/kg wet	41.0		99.7	80-120			
Barium	38.4	0.400	"	41.0		93.6	80-120			
Cadmium	2.00	0.200	"	2.05		97.5	80-120			
Copper	40.0	0.400	"	41.0		97.6	80-120			
Lead	19.4	0.200	"	20.5		94.8	80-120			
Nickel	42.1	0.400	"	41.0		103	80-120			
Silver	1.93	0.0200	"	2.05		94.3	80-120			
Zinc	47.5	0.400	"	41.0		116	80-120			
Selenium	4.03	0.260	"	4.10		98.4	80-120			

Duplicate (BIF0247-DUP1)

Source: 2506039-02

Prepared: 06/19/25 Analyzed: 06/21/25

Arsenic	3.42	0.200	mg/kg dry		2.79			20.1	20	QR-04
Barium	216	0.400	"		203			5.80	20	
Cadmium	0.155	0.200	"		0.133			15.1	20	
Copper	5.30	0.400	"		4.40			18.4	20	
Lead	6.32	0.200	"		5.18			19.8	20	
Nickel	6.13	0.400	"		5.77			6.01	20	
Silver	0.0245	0.0200	"		0.0235			4.37	20	
Zinc	23.6	0.400	"		18.1			26.3	20	QR-04
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BIF0247-MS1)

Source: 2506039-02

Prepared: 06/19/25 Analyzed: 06/21/25

Arsenic	49.4	0.200	mg/kg dry	46.8	2.79	99.6	75-125			
Barium	243	0.400	"	46.8	203	85.2	75-125			
Cadmium	2.52	0.200	"	2.34	0.133	102	75-125			
Copper	41.4	0.400	"	46.8	4.40	79.0	75-125			
Lead	29.5	0.200	"	23.4	5.18	104	75-125			
Nickel	45.2	0.400	"	46.8	5.77	84.3	75-125			
Silver	2.27	0.0200	"	2.34	0.0235	96.0	75-125			
Zinc	63.9	0.400	"	46.8	18.1	98.0	75-125			
Selenium	4.15	0.260	"	4.68	ND	88.7	75-125			

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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BIF0247 - EPA 3050B


Matrix Spike Dup (BIF0247-MSD1)

Source: 2506039-02

Prepared: 06/19/25 Analyzed: 06/21/25

Analyte	Result	Limit	Units	Spike Level	Source Result	Source %REC	Source Limits	Source RPD	RPD Limit	Notes
Arsenic	49.2	0.200	mg/kg dry	46.0	2.79	101	75-125	0.341	25	
Barium	270	0.400	"	46.0	203	145	75-125	10.5	25	QM-05
Cadmium	2.40	0.200	"	2.30	0.133	98.3	75-125	5.18	25	
Copper	41.9	0.400	"	46.0	4.40	81.4	75-125	1.28	25	
Lead	28.2	0.200	"	23.0	5.18	100	75-125	4.63	25	
Nickel	45.8	0.400	"	46.0	5.77	86.9	75-125	1.18	25	
Silver	2.17	0.0200	"	2.30	0.0235	93.1	75-125	4.65	25	
Zinc	63.3	0.400	"	46.0	18.1	98.3	75-125	0.924	25	
Selenium	4.17	0.260	"	4.60	ND	90.6	75-125	0.473	25	

Summit Scientific



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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Hexavalent Chromium by HACH M8023 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BIF0187 - 3060A Mod

Blank (BIF0187-BLK1)											Prepared & Analyzed: 06/13/25			
Chromium, Hexavalent	ND	0.30	mg/kg wet											
LCS (BIF0187-BS1)											Prepared & Analyzed: 06/13/25			
Chromium, Hexavalent	25.1	0.30	mg/kg wet	25.5		98.2	80-120							
Duplicate (BIF0187-DUP1)											Source: 2505120-02		Prepared & Analyzed: 06/13/25	
Chromium, Hexavalent	ND	0.30	mg/kg dry			ND				20				
Matrix Spike (BIF0187-MS1)											Source: 2505120-02		Prepared & Analyzed: 06/13/25	
Chromium, Hexavalent	24.9	0.30	mg/kg dry	26.1	ND	95.6	75-125							
Matrix Spike Dup (BIF0187-MSD1)											Source: 2505120-02		Prepared & Analyzed: 06/13/25	
Chromium, Hexavalent	22.4	0.30	mg/kg dry	24.3	ND	92.2	75-125	10.6		20				

Batch BIF0252 - 3060A Mod

Blank (BIF0252-BLK1)											Prepared & Analyzed: 06/20/25			
Chromium, Hexavalent	ND	0.30	mg/kg wet											
LCS (BIF0252-BS1)											Prepared & Analyzed: 06/20/25			
Chromium, Hexavalent	26.2	0.30	mg/kg wet	25.0		105	80-120							
Duplicate (BIF0252-DUP1)											Source: 2506039-02		Prepared & Analyzed: 06/20/25	
Chromium, Hexavalent	ND	0.30	mg/kg dry			ND				20				
Matrix Spike (BIF0252-MS1)											Source: 2506039-02		Prepared & Analyzed: 06/20/25	
Chromium, Hexavalent	28.3	0.30	mg/kg dry	27.4	ND	103	75-125							

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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

Hexavalent Chromium by HACH M8023 - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BIF0252 - 3060A Mod

Matrix Spike Dup (BIF0252-MSD1)

Source: 2506039-02

Prepared & Analyzed: 06/20/25

Chromium, Hexavalent	29.8	0.30	mg/kg dry	29.7	ND	101	75-125	5.18	20	
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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BIF0176 - General Preparation

Blank (BIF0176-BLK1)

Prepared: 06/12/25 Analyzed: 06/13/25

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BIF0176-BS1)

Prepared: 06/12/25 Analyzed: 06/13/25

Calcium	5.65	0.0500	mg/L wet	5.00	113	70-130				
Magnesium	5.77	0.0500	"	5.00	115	70-130				
Sodium	5.65	0.0500	"	5.00	113	70-130				

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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BIF0183 - General Preparation

Duplicate (BIF0183-DUP1)

Source: 2506031-01

Prepared & Analyzed: 06/13/25

% Solids	77.7		%		79.1			1.78	20	
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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BIF0179 - General Preparation

Blank (BIF0179-BLK1)

Prepared: 06/12/25 Analyzed: 06/13/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIF0179-BS1)

Prepared: 06/12/25 Analyzed: 06/13/25

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

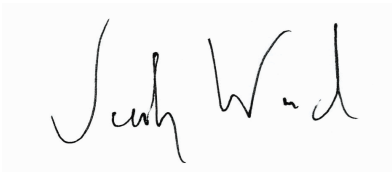
Duplicate (BIF0179-DUP1)

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

Specific Conductance (EC) 2.40 0.0100 mmhos/cm 2.41 0.624 20

Summit Scientific



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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 06/23/25 09:43

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BIF0177 - General Preparation

LCS (BIF0177-BS1)

Prepared: 06/12/25 Analyzed: 06/13/25

pH	9.27	pH Units	9.18	101	95-105
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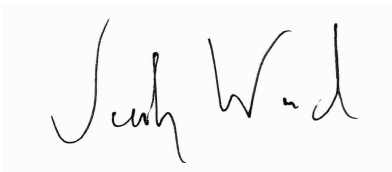
Duplicate (BIF0177-DUP1)

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

pH	8.82	pH Units	8.81	0.125	20
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Summit Scientific



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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]
Project Manager: Ty Smith

Reported:
06/23/25 09:43

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference