

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 01, 2025

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: RU 5-4 Form 27

Work Order #2507063

Enclosed are the results of analyses for samples received by Summit Scientific on 07/30/25 12:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Amanda Stilwell". The signature is written in a cursive, flowing style.

Amanda Stilwell For Jacob Wood
Client Manager



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RU54 2N-b	2507063-01	Soil	07/29/25 12:45	07/30/25 12:40
RU54 2S-b	2507063-02	Soil	07/29/25 12:45	07/30/25 12:40
RU54 2E-b	2507063-03	Soil	07/29/25 12:45	07/30/25 12:40
RU54 2W-b	2507063-04	Soil	07/29/25 12:45	07/30/25 12:40
RU54 2C-b	2507063-05	Soil	07/29/25 12:45	07/30/25 12:40

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Contact Information	
Name:	Lesair Environmental
Address:	11786 Shaffer Place, Unit 210
City/State/Zip:	Littleton, CO 80127
Phone Number:	303-904-2525
Fax Number:	
Project Manager:	Ty Smith
Email:	TySmith@Lesair.com

Billing Information 2507063	
Company:	Williford Energy Company
Address:	6100 S Yale Ave #2000
City/State/Zip:	Tulsa, OK 74136
Phone Number:	918-495-2710
Fax Number:	
Contact:	Doug Storts
Contact Email:	pds@willifordenergy.com

Client:	Williford Energy	Sampled By:	Ty Smith
Project Name:	RUL 5-4 FORM 27	Project Number:	
Sample Location:	RHOADES WNT 5-4	Date:	07/29/2025

ID	Sample Information					Preservative				Analysis Requested			Special Instructions		
	Sample Name	Date Sampled	Time Sampled	No. of Containers	Type of Sample	MATRIX*	HNO ₃	HCl	None	Other (Specify)	9/15 GRO/BTEX	9/15 PRO/POB		9/15 PH	9/15 ORGANIC
1	RU54 2N-b	07/29	12:45	2	G	S			X		X	X	X	X	48 HR TAT
2															
3	RU54 2S-b			2	G	S			X		X	X	X		
4															
5	RU54 2E-b			2	G	S			X		X	X	X	HOLD	
6														HOLD	
7	RU54 2W-b			2	G	S			X		X	X	X	HOLD	
8														HOLD	
9	RU54 2C-b			2	G	S			X		X	X	X	HOLD	
10															

Relinquished By:	<i>Ty Smith</i>	Date:	7/30	Time:	12:40	STANDARD TAT
Received By:	<i>Arnellu Esin</i>	Date:	7/30/25	Time:	12:40	
Temperature Upon Receipt	2.7°C			Notes:		

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



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2N-b
2507063-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0028	mg/kg dry	1	BIG0293	07/30/25	07/30/25	EPA 8260B	
Toluene	ND	0.0057	"	"	"	"	"	"	
Ethylbenzene	ND	0.0057	"	"	"	"	"	"	
Xylenes (total)	ND	0.011	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0057	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0057	"	"	"	"	"	"	
Naphthalene	ND	0.0043	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.57	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0455	98.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0445	96.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0464	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	440	57	mg/kg dry	1	BIG0294	07/30/25	07/30/25	EPA 8015M	
C28-C36 (ORO)	690	57	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	24.1	84.2 %	50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2N-b
2507063-01 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.0567	mg/kg dry	10	BIG0295	07/30/25	07/31/25	EPA 8270E SIM	R-01
Anthracene	ND	0.0567	"	"	"	"	"	"	R-01
Benzo (a) anthracene	ND	0.0567	"	"	"	"	"	"	R-01
Benzo (a) pyrene	ND	0.0567	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	ND	0.0567	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	ND	0.0567	"	"	"	"	"	"	R-01
Chrysene	ND	0.0567	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	ND	0.0567	"	"	"	"	"	"	R-01
Fluoranthene	ND	0.0567	"	"	"	"	"	"	R-01
Fluorene	ND	0.0567	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	ND	0.0567	"	"	"	"	"	"	R-01
Pyrene	ND	0.0567	"	"	"	"	"	"	R-01
1-Methylnaphthalene	ND	0.0567	"	"	"	"	"	"	R-01
2-Methylnaphthalene	ND	0.0567	"	"	"	"	"	"	R-01

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0214	56.3 %	40-140		"	"	"	"	R-01
Surrogate: Fluoranthene-d10	0.0244	64.4 %	40-140		"	"	"	"	R-01

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.2		%	1	BIG0297	07/30/25	07/31/25	Calculation	

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

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2N-b
2507063-01 (Soil)

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

pH	8.88	pH Units	1	BIG0309	07/31/25	07/31/25	EPA 9045D
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11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2S-b
2507063-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0027	mg/kg dry	1	BIG0293	07/30/25	07/30/25	EPA 8260B	
Toluene	ND	0.0053	"	"	"	"	"	"	
Ethylbenzene	ND	0.0053	"	"	"	"	"	"	
Xylenes (total)	ND	0.011	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0053	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0053	"	"	"	"	"	"	
Naphthalene	ND	0.0041	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.53	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0439	103 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0430	100 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0432	101 %	50-150	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00534	mg/kg dry	1	BIG0295	07/30/25	07/31/25	EPA 8270E SIM	
Anthracene	ND	0.00534	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00534	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00534	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00534	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00534	"	"	"	"	"	"	
Chrysene	ND	0.00534	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00534	"	"	"	"	"	"	
Fluoranthene	ND	0.00534	"	"	"	"	"	"	
Fluorene	ND	0.00534	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00534	"	"	"	"	"	"	
Pyrene	ND	0.00534	"	"	"	"	"	"	

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Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2S-b
2507063-02 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00534	mg/kg dry	1	BIG0295	07/30/25	07/31/25	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.00534	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0303	84.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0290	81.4 %	40-140		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	BIG0297	07/30/25	07/31/25	Calculation	

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

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.98		pH Units	1	BIG0309	07/31/25	07/31/25	EPA 9045D	

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 Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 08/01/25 16:05

RU54 2S-b
2507063-02RE1 (Soil)

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Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	53	mg/kg dry	1	BIG0306	07/31/25	07/31/25	EPA 8015M	
C28-C36 (ORO)	ND	53	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: <i>o</i> -Terphenyl	24.7	93.2 %	50-140		"	"	"	"	

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2E-b
2507063-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0027	mg/kg dry	1	BIG0293	07/30/25	07/31/25	EPA 8260B	
Toluene	ND	0.0055	"	"	"	"	"	"	
Ethylbenzene	ND	0.0055	"	"	"	"	"	"	
Xylenes (total)	ND	0.011	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.65	0.055	"	10	"	"	07/30/25	"	
1,3,5-Trimethylbenzene	0.54	0.055	"	"	"	"	"	"	
Naphthalene	0.081	0.0042	"	1	"	"	07/31/25	"	
Gasoline Range Hydrocarbons	8.2	0.55	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0419	95.8 %	50-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0449	103 %	50-150	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0458	105 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	850	55	mg/kg dry	1	BIG0294	07/30/25	07/30/25	EPA 8015M	
C28-C36 (ORO)	ND	55	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>	27.3	97.5 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2E-b
2507063-03 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.273	mg/kg dry	50	BIG0295	07/30/25	07/31/25	EPA 8270E SIM	R-01
Anthracene	ND	0.273	"	"	"	"	"	"	R-01
Benzo (a) anthracene	ND	0.273	"	"	"	"	"	"	R-01
Benzo (a) pyrene	ND	0.273	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	ND	0.273	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	ND	0.273	"	"	"	"	"	"	R-01
Chrysene	ND	0.273	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	ND	0.273	"	"	"	"	"	"	R-01
Fluoranthene	ND	0.273	"	"	"	"	"	"	R-01
Fluorene	ND	0.273	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	ND	0.273	"	"	"	"	"	"	R-01
Pyrene	ND	0.273	"	"	"	"	"	"	R-01
1-Methylnaphthalene	1.15	0.273	"	"	"	"	"	"	R-01
2-Methylnaphthalene	1.13	0.273	"	"	"	"	"	"	R-01

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.00	%	40-140		"	"	"	"	R-01, S-06
Surrogate: Fluoranthene-d10	0.00	%	40-140		"	"	"	"	R-01, S-06

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.5		%	1	BIG0297	07/30/25	07/31/25	Calculation	

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

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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Lesair Environmental
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Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2E-b
2507063-03 (Soil)

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

pH	8.43	pH Units	1	BIG0309	07/31/25	07/31/25	EPA 9045D
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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2W-b
2507063-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0027	mg/kg dry	1	BIG0293	07/30/25	07/30/25	EPA 8260B	
Toluene	ND	0.0054	"	"	"	"	"	"	
Ethylbenzene	ND	0.0054	"	"	"	"	"	"	
Xylenes (total)	ND	0.011	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0084	0.0054	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0054	"	"	"	"	"	"	
Naphthalene	0.013	0.0041	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.2	0.54	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0397	93.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	97.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	54	mg/kg dry	1	BIG0294	07/30/25	07/30/25	EPA 8015M	
C28-C36 (ORO)	ND	54	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	28.0	102 %	50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2W-b
2507063-04 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00537	mg/kg dry	1	BIG0295	07/30/25	07/31/25	EPA 8270E SIM	
Anthracene	ND	0.00537	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00537	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00537	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00537	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00537	"	"	"	"	"	"	
Chrysene	ND	0.00537	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00537	"	"	"	"	"	"	
Fluoranthene	ND	0.00537	"	"	"	"	"	"	
Fluorene	ND	0.00537	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00537	"	"	"	"	"	"	
Pyrene	ND	0.00537	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00537	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00537	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0292	81.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0284	79.1 %	40-140		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BIG0297	07/30/25	07/31/25	Calculation	

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

Date Sampled: **07/29/25 12:45**

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 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2W-b
2507063-04 (Soil)

Summit Scientific

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

pH	8.46	pH Units	1	BIG0309	07/31/25	07/31/25	EPA 9045D
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11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2C-b
2507063-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0026	mg/kg dry	1	BIG0293	07/30/25	07/30/25	EPA 8260B	
Toluene	ND	0.0053	"	"	"	"	"	"	
Ethylbenzene	ND	0.0053	"	"	"	"	"	"	
Xylenes (total)	ND	0.011	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0053	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0053	"	"	"	"	"	"	
Naphthalene	ND	0.0040	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.53	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0442	104 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0423	99.6 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	103 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	110	53	mg/kg dry	1	BIG0294	07/30/25	07/30/25	EPA 8015M	
C28-C36 (ORO)	ND	53	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	24.5	92.3 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

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11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2C-b
2507063-05 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00528	mg/kg dry	1	BIG0295	07/30/25	07/31/25	EPA 8270E SIM	
Anthracene	ND	0.00528	"	"	"	"	"	"	
Benzo (a) anthracene	0.0200	0.00528	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00528	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00528	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00528	"	"	"	"	"	"	
Chrysene	0.0167	0.00528	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00528	"	"	"	"	"	"	
Fluoranthene	ND	0.00528	"	"	"	"	"	"	
Fluorene	ND	0.00528	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00528	"	"	"	"	"	"	
Pyrene	0.0117	0.00528	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00528	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00528	"	"	"	"	"	"	

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0299	83.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0325	91.3 %	40-140		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/29/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BIG0297	07/30/25	07/31/25	Calculation	

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

Date Sampled: **07/29/25 12:45**

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

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

RU54 2C-b
2507063-05 (Soil)

Summit Scientific

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

pH	8.84	pH Units	1	BIG0309	07/31/25	07/31/25	EPA 9045D
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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

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 BIG0293 - EPA 5030 Soil MS

Blank (BIG0293-BLK1)

Prepared & Analyzed: 07/30/25

Benzene	ND	0.0025	mg/kg wet							
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>	0.0410		"	0.0412		99.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0418		"	0.0412		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0422		"	0.0412		102	50-150			

LCS (BIG0293-BS1)

Prepared & Analyzed: 07/30/25

Benzene	0.106	0.0025	mg/kg wet	0.102		104	70-130			
Toluene	0.109	0.0050	"	0.102		107	70-130			
Ethylbenzene	0.100	0.0050	"	0.102		98.5	70-130			
m,p-Xylene	0.203	0.010	"	0.204		99.5	70-130			
o-Xylene	0.104	0.0050	"	0.102		102	70-130			
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.102		98.3	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.102		99.2	70-130			
Naphthalene	0.0995	0.0038	"	0.102		97.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0403		"	0.0408		98.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0409		"	0.0408		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0396		"	0.0408		97.1	50-150			

Matrix Spike (BIG0293-MS1)

Source: 2507063-01

Prepared & Analyzed: 07/30/25

Benzene	0.113	0.0028	mg/kg dry	0.113	ND	99.9	70-130			
Toluene	0.104	0.0057	"	0.113	ND	91.8	70-130			
Ethylbenzene	0.0891	0.0057	"	0.113	ND	78.8	70-130			
m,p-Xylene	0.181	0.011	"	0.226	ND	80.1	70-130			
o-Xylene	0.0891	0.0057	"	0.113	ND	78.8	70-130			
1,2,4-Trimethylbenzene	0.0716	0.0057	"	0.113	ND	63.3	70-130			QM-05
1,3,5-Trimethylbenzene	0.0724	0.0057	"	0.113	ND	64.0	70-130			QM-05
Naphthalene	0.0638	0.0043	"	0.113	ND	56.3	70-130			QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0420		"	0.0453		92.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0453		"	0.0453		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0438		"	0.0453		96.8	50-150			

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 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 08/01/25 16:05

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 BIG0293 - EPA 5030 Soil MS

Matrix Spike Dup (BIG0293-MSD1)	Source: 2507063-01			Prepared & Analyzed: 07/30/25						
Benzene	0.110	0.0028	mg/kg dry	0.114	ND	96.0	70-130	3.01	30	
Toluene	0.0966	0.0057	"	0.114	ND	84.5	70-130	7.30	30	
Ethylbenzene	0.0794	0.0057	"	0.114	ND	69.4	70-130	11.6	30	QM-05
m,p-Xylene	0.166	0.011	"	0.229	ND	72.5	70-130	8.96	30	
o-Xylene	0.0823	0.0057	"	0.114	ND	72.0	70-130	7.99	30	
1,2,4-Trimethylbenzene	0.0631	0.0057	"	0.114	ND	55.2	70-130	12.6	30	QM-05
1,3,5-Trimethylbenzene	0.0637	0.0057	"	0.114	ND	55.8	70-130	12.7	30	QM-05
Naphthalene	0.0605	0.0043	"	0.114	ND	52.9	70-130	5.26	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0442		"	0.0457		96.7	50-150			
Surrogate: Toluene-d8	0.0446		"	0.0457		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0450		"	0.0457		98.4	50-150			

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

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 BIG0294 - EPA 3550A

Blank (BIG0294-BLK1)

Prepared & Analyzed: 07/30/25

C10-C28 (DRO)	ND	50	mg/kg wet								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	29.0		"	24.9		117	50-140				

LCS (BIG0294-BS1)

Prepared & Analyzed: 07/30/25

C10-C28 (DRO)	470	50	mg/kg wet	506		92.9	50-140				
Surrogate: <i>o</i> -Terphenyl	28.0		"	25.3		111	50-140				

Matrix Spike (BIG0294-MS1)

Source: 2507063-01

Prepared & Analyzed: 07/30/25

C10-C28 (DRO)	966	57	mg/kg dry	570	439	92.4	50-140				
Surrogate: <i>o</i> -Terphenyl	34.1		"	28.5		120	50-140				

Matrix Spike Dup (BIG0294-MSD1)

Source: 2507063-01

Prepared & Analyzed: 07/30/25

C10-C28 (DRO)	1040	57	mg/kg dry	573	439	105	50-140	7.53	20		
Surrogate: <i>o</i> -Terphenyl	34.0		"	28.6		119	50-140				

Batch BIG0306 - EPA 3550A

Blank (BIG0306-BLK1)

Prepared & Analyzed: 07/31/25

C10-C28 (DRO)	ND	50	mg/kg wet								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	25.1		"	25.2		99.6	50-140				

LCS (BIG0306-BS1)

Prepared & Analyzed: 07/31/25

C10-C28 (DRO)	518	50	mg/kg wet	493		105	50-140				
Surrogate: <i>o</i> -Terphenyl	24.3		"	24.7		98.6	50-140				

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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 08/01/25 16:05

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

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

Batch BIG0306 - EPA 3550A

LCS Dup (BIG0306-BSD1)

Prepared & Analyzed: 07/31/25

C10-C28 (DRO)	573	50	mg/kg wet	502		114	50-140	10.1	20	
Surrogate: <i>o</i> -Terphenyl	24.7		"	25.1		98.2	50-140			

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Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

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

Batch BIG0295 - EPA 3550A

Blank (BIG0295-BLK1)

Prepared & Analyzed: 07/30/25

Acenaphthene	ND	0.00500	mg/kg wet								
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>	<i>0.0293</i>		"	<i>0.0330</i>		<i>88.9</i>		<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0359</i>		"	<i>0.0330</i>		<i>109</i>		<i>40-140</i>			

LCS (BIG0295-BS1)

Prepared & Analyzed: 07/30/25

Acenaphthene	0.0284	0.00500	mg/kg wet	0.0331		85.9		40-140			
Anthracene	0.0306	0.00500	"	0.0331		92.3		40-140			
Benzo (a) anthracene	0.0335	0.00500	"	0.0331		101		40-140			
Benzo (a) pyrene	0.0314	0.00500	"	0.0331		95.0		40-140			
Benzo (b) fluoranthene	0.0315	0.00500	"	0.0331		95.0		40-140			
Benzo (k) fluoranthene	0.0302	0.00500	"	0.0331		91.3		40-140			
Chrysene	0.0300	0.00500	"	0.0331		90.7		40-140			
Dibenz (a,h) anthracene	0.0295	0.00500	"	0.0331		89.2		40-140			
Fluoranthene	0.0303	0.00500	"	0.0331		91.5		40-140			
Fluorene	0.0295	0.00500	"	0.0331		89.0		40-140			
Indeno (1,2,3-cd) pyrene	0.0299	0.00500	"	0.0331		90.4		40-140			
Pyrene	0.0303	0.00500	"	0.0331		91.6		40-140			
1-Methylnaphthalene	0.0274	0.00500	"	0.0331		82.7		40-140			
2-Methylnaphthalene	0.0253	0.00500	"	0.0331		76.5		40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0276</i>		"	<i>0.0331</i>		<i>83.3</i>		<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0315</i>		"	<i>0.0331</i>		<i>95.1</i>		<i>40-140</i>			

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11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

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 BIG0295 - EPA 3550A

Matrix Spike (BIG0295-MS1)

Source: 2507063-02

Prepared & Analyzed: 07/30/25

Acenaphthene	0.0257	0.00534	mg/kg dry	0.0358	ND	71.7	40-140			
Anthracene	0.0260	0.00534	"	0.0358	ND	72.6	40-140			
Benzo (a) anthracene	0.0291	0.00534	"	0.0358	ND	81.3	40-140			
Benzo (a) pyrene	0.0273	0.00534	"	0.0358	ND	76.2	40-140			
Benzo (b) fluoranthene	0.0261	0.00534	"	0.0358	ND	72.8	40-140			
Benzo (k) fluoranthene	0.0253	0.00534	"	0.0358	ND	70.6	40-140			
Chrysene	0.0260	0.00534	"	0.0358	ND	72.7	40-140			
Dibenz (a,h) anthracene	0.0254	0.00534	"	0.0358	ND	71.0	40-140			
Fluoranthene	0.0263	0.00534	"	0.0358	ND	73.5	40-140			
Fluorene	0.0267	0.00534	"	0.0358	ND	74.5	40-140			
Indeno (1,2,3-cd) pyrene	0.0277	0.00534	"	0.0358	ND	77.5	40-140			
Pyrene	0.0262	0.00534	"	0.0358	ND	73.1	40-140			
1-Methylnaphthalene	0.0248	0.00534	"	0.0358	ND	69.3	40-140			
2-Methylnaphthalene	0.0247	0.00534	"	0.0358	ND	69.0	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0254		"	0.0358		71.0	40-140			
Surrogate: Fluoranthene-d10	0.0268		"	0.0358		74.9	40-140			

Matrix Spike Dup (BIG0295-MSD1)

Source: 2507063-02

Prepared & Analyzed: 07/30/25

Acenaphthene	0.0262	0.00534	mg/kg dry	0.0357	ND	73.5	40-140	2.10	30	
Anthracene	0.0277	0.00534	"	0.0357	ND	77.5	40-140	6.24	30	
Benzo (a) anthracene	0.0290	0.00534	"	0.0357	ND	81.4	40-140	0.256	30	
Benzo (a) pyrene	0.0277	0.00534	"	0.0357	ND	77.7	40-140	1.62	30	
Benzo (b) fluoranthene	0.0266	0.00534	"	0.0357	ND	74.7	40-140	2.19	30	
Benzo (k) fluoranthene	0.0255	0.00534	"	0.0357	ND	71.5	40-140	0.784	30	
Chrysene	0.0258	0.00534	"	0.0357	ND	72.3	40-140	0.965	30	
Dibenz (a,h) anthracene	0.0253	0.00534	"	0.0357	ND	70.9	40-140	0.531	30	
Fluoranthene	0.0272	0.00534	"	0.0357	ND	76.3	40-140	3.27	30	
Fluorene	0.0270	0.00534	"	0.0357	ND	75.6	40-140	1.15	30	
Indeno (1,2,3-cd) pyrene	0.0283	0.00534	"	0.0357	ND	79.5	40-140	2.17	30	
Pyrene	0.0265	0.00534	"	0.0357	ND	74.2	40-140	1.12	30	
1-Methylnaphthalene	0.0252	0.00534	"	0.0357	ND	70.7	40-140	1.64	30	
2-Methylnaphthalene	0.0254	0.00534	"	0.0357	ND	71.3	40-140	2.82	30	
Surrogate: 2-Methylnaphthalene-d10	0.0251		"	0.0357		70.5	40-140			
Surrogate: Fluoranthene-d10	0.0281		"	0.0357		78.8	40-140			

Summit Scientific

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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 08/01/25 16:05

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

Summit Scientific

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

Batch BIG0297 - General Preparation

Duplicate (BIG0297-DUP1)		Source: 2507061-01		Prepared: 07/30/25 Analyzed: 07/31/25	
% Solids	95.4	%		94.1	1.35 20

Summit Scientific

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 Littleton CO, 80127

Project: RU 5-4 Form 27

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 08/01/25 16:05

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 BIG0309 - General Preparation

LCS (BIG0309-BS1)

Prepared & Analyzed: 07/31/25

pH 9.19 pH Units 9.18 100 95-105

Duplicate (BIG0309-DUP1)

Source: 2507063-01

Prepared & Analyzed: 07/31/25

pH 8.88 pH Units 8.88 0.0225 20

Summit Scientific

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Project: RU 5-4 Form 27

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/01/25 16:05

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference.
- R-01 The reporting limit for this analyte has been raised to account for matrix interference.
- 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.
- 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