

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 07, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Wright TB JUL23

Work Order #2307586

Enclosed are the results of analyses for samples received by Summit Scientific on 07/31/23 16:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Wright TB JUL23
Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WTB-BG	2307586-01	Soil	07/28/23 12:50	07/31/23 16:02

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.

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page <u>1</u> of <u>1</u>
2307586	

Client: <u>PADCO LLC</u>				Send Data To:				Send Invoice To:												
Address:				Project Manager: <u>Ty Smith</u>				Company: <u>PADCO LLC</u>												
City/State/Zip:				E-Mail: <u>ty.smith@lesair.com</u>				Project Name/Location: <u>WRIGHT TB</u>												
Phone:				Project Name: <u>WRIGHT TB JUL 23</u>				AFE#:												
Sampler Name: <u>Ty Smith</u>				Project Number: <u>12-0723-007</u>				PO/Billing Codes:												
				Contact: <u>DAN RICHMOND</u>																
				Preservative				Matrix				Analysis Requested				Special Instructions				
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other								
1	WTRB - BG	7/28/23	12:50	2			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					STANDARD TAT
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
Relinquished by: <u>Ty Smith</u>		Date/Time: <u>7/31/23 16:01</u>		Received by: <u>John Wood</u>		Date/Time: <u>7/31/23 16:02</u>		TAT Business Days		Field DO		Notes:								
Relinquished by:		Date/Time:		Received by:		Date/Time:		Same Day		Field EC										
								1 Day		Field ORP										
								2 Days		Field pH										
								3 Days		Field Temp.										
Relinquished by:		Date/Time:		Received by:		Date/Time:		Standard		<input checked="" type="checkbox"/> Field Turb.										
Temperature Upon Receipt: <u>14.0</u>				Corrected Temperature				IR gun #: <u>2</u>				HNO3 lot #:								

S₂

Sample Receipt Checklist

S2 Work Order# 230758xClient: Padco Client Project ID: Wright TB JUL23Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 14.0 Thermometer # 2

	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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on file
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

John Ward
Custodian Printed Name

7/31/23 16:02
Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Wright TB JUL23
Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

WTB-BG
2307586-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/28/23 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.197	0.0100	mg/L	1	BGH0067	08/02/23	08/03/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/28/23 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.872	0.235	mg/kg dry	1	BGH0044	08/01/23	08/03/23	EPA 6020B	
Barium	103	0.470	"	"	"	"	"	"	
Cadmium	ND	0.235	"	"	"	"	"	"	
Copper	ND	0.470	"	"	"	"	"	"	
Lead	7.23	0.235	"	"	"	"	"	"	
Nickel	2.51	0.470	"	"	"	"	"	"	
Selenium	0.318	0.306	"	"	"	"	"	"	
Silver	0.0320	0.0235	"	"	"	"	"	"	
Zinc	7.54	0.470	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/28/23 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0102	08/02/23	08/02/23	EPA 7196A	

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

Date Sampled: **07/28/23 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	268	0.0588	mg/L dry	1	BGH0028	08/01/23	08/03/23	EPA 6020B	
Magnesium	133	0.0588	"	"	"	"	"	"	
Sodium	17.2	0.0588	"	"	"	"	"	"	

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Project Manager: Ty Smith

Reported:
08/07/23 08:52

WTB-BG
2307586-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/28/23 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.215	0.00100	units	1	BGH0166	08/03/23	08/03/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/28/23 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BGH0045	08/01/23	08/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/28/23 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.187	0.0100	mmhos/cm	1	BGH0098	08/02/23	08/02/23	EPA 120.1	

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

Date Sampled: **07/28/23 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.00		pH Units	1	BGH0099	08/02/23	08/02/23	EPA 9045D	

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Project: PADCO Wright TB JUL23

Project Number: 12-0723-007

Project Manager: Ty Smith

Reported:
08/07/23 08:52

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

Summit Scientific

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

Batch BGH0067 - EPA 3050B

Blank (BGH0067-BLK1)

Prepared: 08/02/23 Analyzed: 08/03/23

Boron ND 0.0100 mg/L

LCS (BGH0067-BS1)

Prepared: 08/02/23 Analyzed: 08/03/23

Boron 6.49 0.0100 mg/L 6.00 108 80-120

Duplicate (BGH0067-DUP1)

Source: 2307586-01

Prepared: 08/02/23 Analyzed: 08/03/23

Boron 0.163 0.0100 mg/L 0.197 18.5 20

Matrix Spike (BGH0067-MS1)

Source: 2307586-01

Prepared: 08/02/23 Analyzed: 08/03/23

Boron 6.73 0.0100 mg/L 6.00 0.197 109 75-125

Matrix Spike Dup (BGH0067-MSD1)

Source: 2307586-01

Prepared: 08/02/23 Analyzed: 08/03/23

Boron 6.49 0.0100 mg/L 6.00 0.197 105 75-125 3.61 25

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Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0044 - EPA 3050B

Blank (BGH0044-BLK1)

Prepared: 08/01/23 Analyzed: 08/03/23

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGH0044-BS1)

Prepared: 08/01/23 Analyzed: 08/03/23

Arsenic	47.2	0.200	mg/kg wet	40.0	118	80-120
Barium	34.6	0.400	"	40.0	86.4	80-120
Cadmium	1.60	0.200	"	2.00	80.0	80-120
Copper	42.6	0.400	"	40.0	107	80-120
Lead	16.3	0.200	"	20.0	81.5	80-120
Nickel	44.3	0.400	"	40.0	111	80-120
Selenium	4.58	0.260	"	4.00	114	80-120
Silver	1.81	0.0200	"	2.00	90.3	80-120
Zinc	44.3	0.400	"	40.0	111	80-120

Duplicate (BGH0044-DUP1)

Source: 2307582-01

Prepared: 08/01/23 Analyzed: 08/03/23

Arsenic	1.45	0.236	mg/kg dry	1.81	22.3	20	QR-04
Barium	41.3	0.472	"	21.8	61.9	20	QR-04
Cadmium	0.0864	0.236	"	0.0552	44.0	20	QR-01
Copper	0.445	0.472	"	0.652	37.7	20	QR-01
Lead	10.1	0.236	"	10.1	0.701	20	
Nickel	3.22	0.472	"	3.31	2.73	20	
Selenium	0.216	0.307	"	0.260	18.3	20	
Silver	0.0250	0.0236	"	0.0227	9.90	20	
Zinc	14.7	0.472	"	16.1	9.03	20	

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Project: PADCO Wright TB JUL23

Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0044 - EPA 3050B

Matrix Spike (BGH0044-MS1)

Source: 2307582-01

Prepared: 08/01/23 Analyzed: 08/03/23

Arsenic	12.1	0.236	mg/kg dry	47.2	1.81	21.7	75-125			QM-07
Barium	77.5	0.472	"	47.2	21.8	118	75-125			
Cadmium	1.64	0.236	"	2.36	0.0552	67.2	75-125			QM-07
Copper	10.8	0.472	"	47.2	0.652	21.6	75-125			QM-07
Lead	23.9	0.236	"	23.6	10.1	58.2	75-125			QM-07
Nickel	14.0	0.472	"	47.2	3.31	22.6	75-125			QM-07
Selenium	6.07	0.307	"	4.72	0.260	123	75-125			
Silver	1.60	0.0236	"	2.36	0.0227	67.0	75-125			QM-07
Zinc	26.1	0.472	"	47.2	16.1	21.2	75-125			QM-07

Matrix Spike Dup (BGH0044-MSD1)

Source: 2307582-01

Prepared: 08/01/23 Analyzed: 08/03/23

Arsenic	11.8	0.236	mg/kg dry	47.2	1.81	21.3	75-125	1.78	25	QM-07
Barium	118	0.472	"	47.2	21.8	204	75-125	41.4	25	QM-07
Cadmium	1.57	0.236	"	2.36	0.0552	64.4	75-125	4.08	25	QM-07
Copper	10.4	0.472	"	47.2	0.652	20.8	75-125	3.78	25	QM-07
Lead	22.5	0.236	"	23.6	10.1	52.4	75-125	5.97	25	QM-07
Nickel	13.5	0.472	"	47.2	3.31	21.5	75-125	3.66	25	QM-07
Selenium	6.01	0.307	"	4.72	0.260	122	75-125	0.993	25	
Silver	1.52	0.0236	"	2.36	0.0227	63.4	75-125	5.50	25	QM-07
Zinc	25.2	0.472	"	47.2	16.1	19.2	75-125	3.56	25	QM-07

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Littleton CO, 80127

Project: PADCO Wright TB JUL23

Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0102 - 3060A Mod

Blank (BGH0102-BLK1)

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0102-BS1)

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent 20.4 0.30 mg/kg wet 25.0 81.4 80-120

Duplicate (BGH0102-DUP1)

Source: 2307592-01

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0102-MS1)

Source: 2307592-01

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent 23.7 0.30 mg/kg dry 27.1 ND 87.6 75-125

Matrix Spike Dup (BGH0102-MSD1)

Source: 2307592-01

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent 24.5 0.30 mg/kg dry 27.1 ND 90.2 75-125 2.92 20

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Wright TB JUL23
Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

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

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

Batch BGH0028 - General Preparation

Blank (BGH0028-BLK1)

Prepared: 08/01/23 Analyzed: 08/02/23

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

LCS (BGH0028-BS1)

Prepared: 08/01/23 Analyzed: 08/02/23

Calcium	3.59	0.0500	mg/L wet	5.00	71.8	70-130
Magnesium	5.47	0.0500	"	5.00	109	70-130
Sodium	5.61	0.0500	"	5.00	112	70-130

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Project: PADCO Wright TB JUL23

Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

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

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

Batch BGH0045 - General Preparation

Duplicate (BGH0045-DUP1)			Source: 2307563-01			Prepared & Analyzed: 08/01/23				
% Solids	88.5		%			84.0		5.30	20	

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Project: PADCO Wright TB JUL23
Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

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

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

Batch BGH0098 - General Preparation

Blank (BGH0098-BLK1)

Prepared & Analyzed: 08/02/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0098-BS1)

Prepared & Analyzed: 08/02/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGH0098-DUP1)

Source: 2307564-01

Prepared & Analyzed: 08/02/23

Specific Conductance (EC) 0.221 0.0100 mmhos/cm 0.224 1.12 20

Summit Scientific

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Littleton CO, 80127

Project: PADCO Wright TB JUL23

Project Number: 12-0723-007

Project Manager: Ty Smith

Reported:

08/07/23 08:52

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

Summit Scientific

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

Batch BGH0099 - General Preparation

LCS (BGH0099-BS1)

Prepared & Analyzed: 08/02/23

pH	9.12	pH Units	9.18	99.3	95-105
----	------	----------	------	------	--------

Duplicate (BGH0099-DUP1)

Source: 2307564-01

Prepared & Analyzed: 08/02/23

pH	7.39	pH Units	7.45	0.809	20
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Project: PADCO Wright TB JUL23

Project Number: 12-0723-007
Project Manager: Ty Smith

Reported:
08/07/23 08:52

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 24, 2023

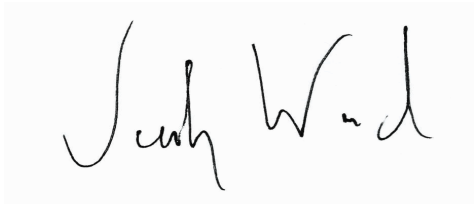
Ty Smith
Lesair Environmental
11786 Shaffer Place Suite 210
Littleton, CO 80127

RE: Wright 2023

Work Order #2303554

Enclosed are the results of analyses for samples received by Summit Scientific on 03/22/23 17:24. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Wright 2023

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/24/23 15:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A	2303554-01	Soil	03/22/23 10:40	03/22/23 17:24

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4653 Table Mountain Drive
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303-277-9310

Lab ID	Page 1 of 1
2303554	

Client: LESAIR ENVIRONMENTAL		Send Data To:		Send Invoice To:	
Address: 11786/SHAKER PL #210		Project Manager: Ty Smith		Company: PADCO LLC	
City/State/Zip: Littleton, CO 80127		E-Mail: ty.smith@lesair.com		Project Name/Location:	
Phone: 303.904.2525		Project Name: WRIGHT 2023		AFE#:	
Sampler Name: Ty Smith		Project Number:		PO/Billing Codes:	
				Contact: DAN RICHMOND	

					Preservative				Matrix				Analysis Requested							Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____								
1	A	3/22	10:40	1						X			X	9/5 ARSENIC	X	9/5 PH				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: Ty Smith	Date/Time: 3/22/23 17:21	Received by: Scott Shely	Date/Time: 3/22/23 17:21	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 5.5	Corrected Temperature: —	IR gun #: 62	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2303554

Client: Lesair Environmental Client Project ID: JS 3/22/23
Wright Wright 2023

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

☒ ☐ ☐ ☐ ☐

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐

Temp (°C) 5.5 Thermometer # 02

	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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>On Ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2 days</u>
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/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

JS
Custodian Printed Name

3/22/23 1726
Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Wright 2023

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/24/23 15:27

A
2303554-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/22/23 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.34	0.200	mg/kg dry	1	BGC0765	03/22/23	03/24/23	EPA 6020B	
Barium	133	0.400	"	"	"	"	"	"	
Cadmium	0.256	0.200	"	"	"	"	"	"	
Selenium	0.883	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	82.9		%	1	BGC0851	03/24/23	03/25/23	Calculation	

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

Date Sampled: **03/22/23 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.66		pH Units	1	BGC0845	03/24/23	03/24/23	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Wright 2023

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/24/23 15:27

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGC0765 - EPA 3050B

Blank (BGC0765-BLK1)

Prepared: 03/22/23 Analyzed: 03/24/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Selenium	ND	0.260	"

LCS (BGC0765-BS1)

Prepared: 03/22/23 Analyzed: 03/24/23

Arsenic	47.7	0.200	mg/kg wet	40.0	119	80-120
Barium	47.0	0.400	"	40.0	117	80-120
Cadmium	2.37	0.200	"	2.00	119	80-120
Selenium	4.32	0.260	"	4.00	108	80-120

Duplicate (BGC0765-DUP1)

Source: 2303539-01

Prepared: 03/22/23 Analyzed: 03/24/23

Arsenic	2.87	0.200	mg/kg dry	3.20	11.0	20	QM-02
Barium	227	0.400	"	296	26.2	20	
Cadmium	0.116	0.200	"	0.140	18.5	20	
Selenium	0.649	0.260	"	0.577	11.8	20	

Matrix Spike (BGC0765-MS1)

Source: 2303539-01

Prepared: 03/22/23 Analyzed: 03/24/23

Arsenic	59.9	0.200	mg/kg dry	54.7	3.20	104	75-125	QM-07
Barium	291	0.400	"	54.7	296	NR	75-125	
Cadmium	2.94	0.200	"	2.73	0.140	102	75-125	
Selenium	4.98	0.260	"	5.47	0.577	80.5	75-125	

Matrix Spike Dup (BGC0765-MSD1)

Source: 2303539-01

Prepared: 03/22/23 Analyzed: 03/24/23

Arsenic	59.0	0.200	mg/kg dry	54.7	3.20	102	75-125	1.44	25	QM-07
Barium	289	0.400	"	54.7	296	NR	75-125	0.645	25	
Cadmium	2.89	0.200	"	2.73	0.140	101	75-125	1.52	25	
Selenium	4.15	0.260	"	5.47	0.577	65.4	75-125	18.1	25	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Wright 2023

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/24/23 15:27

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGC0765 - EPA 3050B

Post Spike (BGC0765-PS1)

Source: 2303539-01

Prepared: 03/22/23 Analyzed: 03/24/23

Arsenic	128		ug/l	100	5.85	122	75-125
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Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Wright 2023

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/24/23 15:27

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

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

Batch BGC0851 - General Preparation

Duplicate (BGC0851-DUP1)		Source: 2303554-01		Prepared: 03/24/23 Analyzed: 03/25/23	
% Solids	82.9		%	82.9	0.0184 20

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Wright 2023

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/24/23 15:27

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

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

Batch BGC0845 - General Preparation

LCS (BGC0845-BS1)

Prepared & Analyzed: 03/24/23

pH	8.97	pH Units	9.18	97.7	95-105
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Duplicate (BGC0845-DUP1)

Source: 2303553-01

Prepared & Analyzed: 03/24/23

pH	8.28	pH Units	8.27	0.121	20
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Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Wright 2023

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/24/23 15:27

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
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