

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

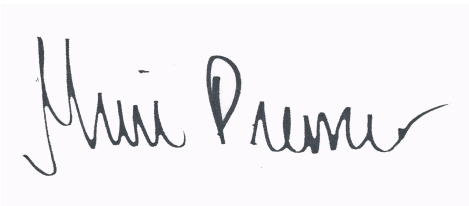
303.277.9310

June 15, 2021

Ty Smith  
Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton, CO 80127  
RE: PADCO M-R Prework  
Work Order #2106131

Enclosed are the results of analyses for samples received by Summit Scientific on 06/07/21 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO M-R Prework  
Project Number: Miller-Rediess BKG #7  
Project Manager: Ty Smith

**Reported:**  
06/15/21 17:13

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
7A-72	2106131-02	Soil	06/05/21 12:20	06/07/21 09:00
7A-120	2106131-03	Soil	06/05/21 12:25	06/07/21 09:00

Summit Scientific

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2106131



### Contact/Billing 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

### Notes:

HOLD SAMPLE 7A-24 UNTIL  
 APPROVAL FROM LESAIR

**INVOICE PADCO**



Standard Turn Around



RUSH TURN AROUND

<b>Project Name:</b>	PADCO M-R Pework	<b>Sampled By:</b>	Ty Smith
<b>Project Number:</b>		<b>Signature:</b>	<i>[Signature]</i>
<b>Sample Location:</b>	Miller-Rediess #1-A OKG #7	<b>Date:</b>	06/05/2021

Sample Information					Matrix*	Preservation						Analysis									
Sample Name	Date Sampled	Time Sampled	Number of Samples	G=Grab, C= Composite		HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)									
7A-24	06/05/21	12:15	2	G	SOIL						X	HOLD									
7A-72	06/05/21	12:20	2	G	SOIL						X	X X X									
7A-120	06/05/21	12:25	2	G	SOIL						X	X X X									

<b>Relinquished By:</b>	<i>[Signature]</i>	<b>Date:</b>	06/07/2021	<b>Time:</b>	9:00
<b>Received By:</b>	<i>[Signature]</i>	<b>Date:</b>	6/7/21	<b>Time:</b>	9:00

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

Temp 20.2

2106131

## Sample Receipt Checklist

S2 Work Order \_\_\_\_\_

Client: Le SaikClient Project ID: PADCO M-R pre workShipped Via: ☒ H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_

Airbill #: \_\_\_\_\_

Matrix (check all that apply):

☐ Air☒ Soil/Solid☐ Water☐ Other: \_\_\_\_\_

(Describe)

Temp (°C)

20.2

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<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) <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

MC  
Custodian Printed Name or InitialsMC  
Signature of Custodian6/7/21  
Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO M-R Pework  
Project Number: Miller-Rediess BKG #7  
Project Manager: Ty Smith

**Reported:**  
06/15/21 17:13

**7A-72**  
**2106131-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/05/21 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.0	0.0590	mg/L dry	1	BEF0245	06/10/21	06/14/21	EPA 6020B	
Magnesium	27.4	0.0590	"	"	"	"	"	"	
Sodium	80.9	0.0590	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/05/21 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.70	0.00100	units	1	BEF0325	06/15/21	06/15/21	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/05/21 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BEF0164	06/08/21	06/09/21	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/05/21 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.670	0.0100	mmhos/cm	1	BEF0270	06/11/21	06/11/21	EPA 120.1	

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

Date Sampled: **06/05/21 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BEF0269	06/11/21	06/11/21	EPA 9045D	

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Project: PADCO M-R Prework  
Project Number: Miller-Rediess BKG #7  
Project Manager: Ty Smith

**Reported:**  
06/15/21 17:13

**7A-120**  
**2106131-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/05/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.6	0.0599	mg/L dry	1	BEF0245	06/10/21	06/14/21	EPA 6020B	
Magnesium	27.6	0.0599	"	"	"	"	"	"	
Sodium	92.0	0.0599	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/05/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.539	0.00100	units	1	BEF0325	06/15/21	06/15/21	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/05/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	1	BEF0164	06/08/21	06/09/21	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/05/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.733	0.0100	mmhos/cm	1	BEF0270	06/11/21	06/11/21	EPA 120.1	

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

Date Sampled: **06/05/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BEF0269	06/11/21	06/11/21	EPA 9045D	

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**Reported:**  
06/15/21 17:13

**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 BEF0245 - General Preparation**

**Blank (BEF0245-BLK1)**

Prepared: 06/10/21 Analyzed: 06/13/21

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

**LCS (BEF0245-BS1)**

Prepared: 06/10/21 Analyzed: 06/13/21

Calcium	5.16	0.0500	mg/L wet	5.00	103	70-130
Magnesium	5.35	0.0500	"	5.00	107	70-130
Sodium	4.97	0.0500	"	5.00	99.4	70-130

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Project: PADCO M-R Prework  
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Project Manager: Ty Smith

**Reported:**  
06/15/21 17:13

**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 BEF0164 - General Preparation**

Duplicate (BEF0164-DUP1)		Source: 2104483-01		Prepared: 06/08/21 Analyzed: 06/09/21	
% Solids	90.8		%	92.0	1.33 20

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Project Number: Miller-Rediess BKG #7  
Project Manager: Ty Smith

**Reported:**  
06/15/21 17:13

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

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

**Batch BEF0270 - General Preparation**

**Blank (BEF0270-BLK1)**

Prepared & Analyzed: 06/11/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BEF0270-BS1)**

Prepared & Analyzed: 06/11/21

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 90-110

**Duplicate (BEF0270-DUP1)**

**Source: 2105335-09**

Prepared & Analyzed: 06/11/21

Specific Conductance (EC) 0.926 0.0100 mmhos/cm 0.928 0.205 20

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Project: PADCO M-R Prework  
Project Number: Miller-Rediess BKG #7  
Project Manager: Ty Smith

**Reported:**  
06/15/21 17:13

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

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

**Batch BEF0269 - General Preparation**

**LCS (BEF0269-BS1)**

Prepared & Analyzed: 06/11/21

pH	9.21	pH Units	9.21	100	95-105
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**Duplicate (BEF0269-DUP1)**

**Source: 2104483-01**

Prepared & Analyzed: 06/11/21

pH	7.76	pH Units	7.78	0.257	20
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**Reported:**  
06/15/21 17:13

### Notes and Definitions

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