

Summit Scientific

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 that reads "Muri Premer". The signature is written in a cursive style with a large, stylized initial "M".

Muri Premer 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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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

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

Sample Name	Sample Information					Matrix*	Preservation						Analysis
	Date Sampled	Time Sampled	Number of Samples	G=Grab, C= Composite			HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	
7A-24	06/05/21	12:15	2	G	SOIL						X	HOLD	9/15/21
7A-72	06/05/21	12:20	2	G	SOIL						X	X X X	9/15/21
7A-120	06/05/21	12:25	2	G	SOIL						X	X X X	9/15/21

Relinquished By:	<i>[Signature]</i>	Date:	06/07/2021	Time:	9:00
Received By:	<i>[Signature]</i>	Date:	6/7/21	Time:	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 Saik Client Project ID: PADCO M-R pre work

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C)	<u>20.2</u>
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<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 ⁽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"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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, H2SO4, NaOH, HNO3, ect	<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.

MC
Custodian Printed Name or Initials

MC
Signature of Custodian

6/17/21
Date/Time



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

Reported:
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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.42		pH Units	1	BEF0269	06/11/21	06/11/21	EPA 9045D	

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

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

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

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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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
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Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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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Reported:
 06/15/21 17:13

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

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

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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Reported:
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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 BEF0269 - General Preparation

LCS (BEF0269-BS1)

Prepared & Analyzed: 06/11/21

pH 9.21 pH Units 9.21 100 95-105

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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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