

PADCO, LLC

Venrick #1A March 2023 Spill

Spill/Release Point ID: 484182

Initial Form-19 Doc No.: 403353422

Background Sample Analysis

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 26, 2024

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Venrick #1A FEB23

Work Order #2407291

Enclosed are the results of analyses for samples received by Summit Scientific on 07/23/24 12:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Venrick #1A FEB23

Project Number: [none]
Project Manager: Ty Smith

Reported:
07/26/24 11:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V-BG-60	2407291-01	Soil	07/20/24 17:00	07/23/24 12:13



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

Lab ID	Page <u>1</u> of <u>1</u>
2407291	

Client: PADCO LLC	Project Manager: Ty Smith	Send Data To:	Send Invoice To:
Address:	E-Mail: tysmith@lesair.com	Company: PADCO LLC	Project Name/Location:
City/State/Zip:		AFE#:	
Phone:	Project Name: Venrick #1A FEB23	PO/Billing Codes:	
Sampler Name: Ty Smith	Project Number:	Contact: Dan Richmond	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other							
1	V-BG-60	7-20-24	17:00	1			X			X									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>7-23-24 12:13</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/23/24 12:13</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>11.3</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2407291

Client: TADCO Client Project ID: Venrick #1A FEB23

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

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

Temp (°C) 11.3

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.

Jh Vid
Custodian Printed Name

7/23/24 12:13
Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Venrick #1A FEB23

Project Number: [none]
Project Manager: Ty Smith

Reported:
07/26/24 11:24

V-BG-60
2407291-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **07/20/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.84	0.200	mg/kg dry	1	BHG0683	07/24/24	07/25/24	EPA 6020B	
Barium	190	0.400	"	"	"	"	"	"	
Cadmium	0.353	0.200	"	"	"	"	"	"	
Copper	5.48	0.400	"	"	"	"	"	"	
Lead	8.49	0.200	"	"	"	"	"	"	
Nickel	6.19	0.400	"	"	"	"	"	"	
Silver	0.0560	0.0200	"	"	"	"	"	"	
Zinc	21.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/20/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0688	07/24/24	07/24/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/20/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.7		%	1	BHG0666	07/24/24	07/24/24	Calculation	

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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.



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Project Number: [none]
Project Manager: Ty Smith

Reported:
07/26/24 11:24

Total Metals by EPA 6020B - Quality Control

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

Batch BHG0683 - EPA 3050B

Blank (BHG0683-BLK1)

Prepared: 07/24/24 Analyzed: 07/25/24

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 (BHG0683-BS1)

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	38.3	0.200	mg/kg wet	36.5	105	80-120
Barium	37.4	0.400	"	36.5	102	80-120
Cadmium	1.75	0.200	"	1.82	95.7	80-120
Copper	37.0	0.400	"	36.5	101	80-120
Lead	17.6	0.200	"	18.2	96.4	80-120
Nickel	36.5	0.400	"	36.5	99.9	80-120
Silver	1.75	0.0200	"	1.82	95.9	80-120
Zinc	37.0	0.400	"	36.5	101	80-120
Selenium	3.86	0.260	"	3.65	106	80-120

Duplicate (BHG0683-DUP1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	2.46	0.200	mg/kg dry	2.32	5.69	20
Barium	80.3	0.400	"	87.3	8.29	20
Cadmium	0.272	0.200	"	0.234	15.1	20
Copper	5.49	0.400	"	5.32	3.14	20
Lead	7.88	0.200	"	7.53	4.47	20
Nickel	6.23	0.400	"	5.93	4.99	20
Silver	0.0196	0.0200	"	0.0170	14.6	20
Zinc	18.7	0.400	"	18.5	1.04	20
Selenium	ND	0.260	"	ND		20

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Project: PADCO Venrick #1A FEB23

Project Number: [none]
Project Manager: Ty Smith

Reported:
07/26/24 11:24

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 BHG0683 - EPA 3050B

Matrix Spike (BHG0683-MS1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	21.0	0.200	mg/kg dry	40.5	2.32	46.2	75-125				QM-05
Barium	114	0.400	"	40.5	87.3	65.2	75-125				QM-07
Cadmium	2.23	0.200	"	2.03	0.234	98.3	75-125				
Copper	23.9	0.400	"	40.5	5.32	45.8	75-125				QM-05
Lead	24.1	0.200	"	20.3	7.53	81.8	75-125				
Nickel	23.8	0.400	"	40.5	5.93	44.2	75-125				QM-05
Silver	1.95	0.0200	"	2.03	0.0170	95.2	75-125				
Zinc	37.0	0.400	"	40.5	18.5	45.6	75-125				QM-05
Selenium	3.23	0.260	"	4.05	ND	79.6	75-125				

Matrix Spike Dup (BHG0683-MSD1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	19.9	0.181	mg/kg dry	40.0	2.32	44.0	75-125	5.63	25		QM-05
Barium	143	0.362	"	40.0	87.3	141	75-125	23.1	25		QM-07
Cadmium	2.19	0.181	"	2.00	0.234	98.0	75-125	1.50	25		
Copper	23.1	0.362	"	40.0	5.32	44.4	75-125	3.57	25		QM-05
Lead	23.4	0.181	"	20.0	7.53	79.5	75-125	2.95	25		
Nickel	23.7	0.362	"	40.0	5.93	44.5	75-125	0.472	25		QM-05
Silver	1.92	0.0181	"	2.00	0.0170	95.2	75-125	1.50	25		
Zinc	36.2	0.362	"	40.0	18.5	44.3	75-125	2.13	25		QM-05
Selenium	3.15	0.236	"	4.00	ND	78.9	75-125	2.24	25		

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Project Number: [none]
 Project Manager: Ty Smith

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 07/26/24 11:24

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHG0688 - 3060A Mod

Blank (BHG0688-BLK1)		Prepared & Analyzed: 07/24/24								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHG0688-BS1)		Prepared & Analyzed: 07/24/24								
Chromium, Hexavalent	25.6	0.30	mg/kg wet	25.0		102	80-120			
Duplicate (BHG0688-DUP1)		Source: 2407289-01		Prepared & Analyzed: 07/24/24						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHG0688-MS1)		Source: 2407289-01		Prepared & Analyzed: 07/24/24						
Chromium, Hexavalent	29.4	0.30	mg/kg dry	27.6	ND	107	75-125			
Matrix Spike Dup (BHG0688-MSD1)		Source: 2407289-01		Prepared & Analyzed: 07/24/24						
Chromium, Hexavalent	29.2	0.30	mg/kg dry	27.6	ND	106	75-125	0.752	20	

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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 BHG0666 - General Preparation

Duplicate (BHG0666-DUP1)

Source: 2407289-01

Prepared & Analyzed: 07/24/24

% Solids	91.0		%		90.7			0.334		20	
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Project: PADCO Venrick #1A FEB23

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07/26/24 11:24

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-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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