

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 29, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: Venrick #1A

Work Order #2303552

Enclosed are the results of analyses for samples received by Summit Scientific on 03/22/23 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V1	2303552-01	Soil	03/22/23 12:45	03/22/23 17:20

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 1 of 1
2303552	

Client: <u>LESAIR ENVIRONMENTAL</u> <del>PADCO LLC</del>	Send Data To: Project Manager: <u>Ty Smith</u>	Send Invoice To: Company: <u>PADCO, LLC</u>
Address: <u>11786 SHAKER PL, #210</u>	E-Mail: <u>ty.smith@lesair.com</u>	Project Name/Location:
City/State/Zip: <u>LITTLETON, CO 80127</u>	Project Name: <u>VENRICK #1A</u>	AFE#:
Phone: <u>303.904.2525</u>	Project Number:	PO/Billing Codes:
Sampler Name: <u>Ty Smith</u>		Contact: <u>DAN RICHMOND</u>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	9/15 DRX/PRO	9/15 DRX/PRO	9/15 SPAR/CS/DRX	9/15 METALS	9/15 PH	
1	V1	3/22	12:45	2						X			✓	✓	✓	✓	✓	STANDARD
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>Ty Smith</u>	Date/Time: <u>3/22/2023 17:14</u>	Received by: <u>Scott Shuey</u>	Date/Time: <u>3/22/23 1720</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.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>5.5</u>	Corrected Temperature: <u>—</u>	IR gun #: <u>02</u>	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2303552

Client: Lesair Environmental Client Project ID: Venrick #1A

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

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

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <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"/>	
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"/>	
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"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

AS

Custodian Printed Name

3/22/23 1720

Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

**V1**  
**2303552-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BGC0868	03/25/23	03/28/23	EPA 8260B	R-01
Toluene	ND	0.50	"	"	"	"	"	"	R-01
Ethylbenzene	ND	0.50	"	"	"	"	"	"	R-01
<b>Xylenes (total)</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>6.7</b>	0.50	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>4.0</b>	0.50	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.3</b>	0.38	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1000</b>	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0510	128 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>C10-C28 (DRO)</b>	<b>19000</b>	50	mg/kg	1	BGC0923	03/27/23	03/29/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>3700</b>	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	12.2	97.3 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

**V1**  
**2303552-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.908</b>	0.0100	mg/L	1	BGC0937	03/27/23	03/29/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Arsenic</b>	<b>2.87</b>	0.271	mg/kg dry	1	BGC0765	03/22/23	03/24/23	EPA 6020B	
<b>Barium</b>	<b>117</b>	0.542	"	"	"	"	"	"	
<b>Cadmium</b>	<b>0.240</b>	0.271	"	"	"	"	"	"	
<b>Copper</b>	<b>8.87</b>	0.542	"	"	"	"	"	"	
<b>Lead</b>	<b>10.9</b>	0.271	"	"	"	"	"	"	
<b>Nickel</b>	<b>8.52</b>	0.542	"	"	"	"	"	"	
<b>Selenium</b>	<b>0.570</b>	0.260	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0596</b>	0.0271	"	"	"	"	"	"	
<b>Zinc</b>	<b>34.3</b>	0.542	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGC0901	03/27/23	03/27/23	EPA 7196A	

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

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>234</b>	0.0678	mg/L dry	1	BGC0912	03/27/23	03/28/23	EPA 6020B	
<b>Magnesium</b>	<b>50.3</b>	0.0678	"	"	"	"	"	"	
<b>Sodium</b>	<b>278</b>	0.0678	"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

**V1**  
**2303552-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.30	0.00100	units	1	BGC0976	03/29/23	03/29/23	Calculation	

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

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.8		%	1	BGC0899	03/27/23	03/27/23	Calculation	

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

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BGC0958	03/28/23	03/28/23	EPA 120.1	

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

Date Sampled: **03/22/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.58		pH Units	1	BGC0957	03/28/23	03/28/23	EPA 9045D	

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Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

### 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 BGC0868 - EPA 5030 Soil MS

##### Blank (BGC0868-BLK1)

Prepared: 03/25/23 Analyzed: 03/27/23

Benzene	ND	0.0020	mg/kg							
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>	0.0413		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0410		"	0.0400		102	50-150			

##### LCS (BGC0868-BS1)

Prepared: 03/25/23 Analyzed: 03/27/23

Benzene	0.0807	0.0020	mg/kg	0.100		80.7	70-130			
Toluene	0.0846	0.0050	"	0.100		84.6	70-130			
Ethylbenzene	0.0967	0.0050	"	0.100		96.7	70-130			
m,p-Xylene	0.186	0.010	"	0.200		92.8	70-130			
o-Xylene	0.0925	0.0050	"	0.100		92.5	70-130			
1,2,4-Trimethylbenzene	0.0965	0.0050	"	0.100		96.5	70-130			
1,3,5-Trimethylbenzene	0.0976	0.0050	"	0.100		97.6	70-130			
Naphthalene	0.0991	0.0038	"	0.100		99.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0364		"	0.0400		91.1	50-150			
<i>Surrogate: Toluene-d8</i>	0.0401		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.4	50-150			

##### Matrix Spike (BGC0868-MS1)

Source: 2303557-01

Prepared: 03/25/23 Analyzed: 03/27/23

Benzene	0.0785	0.0020	mg/kg	0.100	ND	78.5	70-130			
Toluene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
Ethylbenzene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
m,p-Xylene	0.189	0.010	"	0.200	ND	94.5	70-130			
o-Xylene	0.0933	0.0050	"	0.100	ND	93.3	70-130			
1,2,4-Trimethylbenzene	0.0944	0.0050	"	0.100	ND	94.4	70-130			
1,3,5-Trimethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130			
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0363		"	0.0400		90.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0395		"	0.0400		98.7	50-150			

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 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 03/29/23 12:11

**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		

**Batch BGC0868 - EPA 5030 Soil MS**

Matrix Spike Dup (BGC0868-MSD1)	Source: 2303557-01			Prepared: 03/25/23 Analyzed: 03/27/23						
Benzene	0.0781	0.0020	mg/kg	0.100	ND	78.1	70-130	0.613	30	
Toluene	0.0827	0.0050	"	0.100	ND	82.7	70-130	0.326	30	
Ethylbenzene	0.0998	0.0050	"	0.100	ND	99.8	70-130	2.62	30	
m,p-Xylene	0.193	0.010	"	0.200	ND	96.6	70-130	2.20	30	
o-Xylene	0.0970	0.0050	"	0.100	ND	97.0	70-130	3.82	30	
1,2,4-Trimethylbenzene	0.0988	0.0050	"	0.100	ND	98.8	70-130	4.53	30	
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	4.31	30	
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130	0.347	30	
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		85.9	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

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11786 Shaffer Place Suite 210  
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Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

**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 BGC0923 - EPA 3550A**

**Blank (BGC0923-BLK1)**

Prepared: 03/27/23 Analyzed: 03/28/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	8.84		"	12.5		70.8	30-150				

**LCS (BGC0923-BS1)**

Prepared: 03/27/23 Analyzed: 03/29/23

C10-C28 (DRO)	433	50	mg/kg	500		86.5	70-130				
Surrogate: <i>o</i> -Terphenyl	13.6		"	12.5		109	30-150				

**Matrix Spike (BGC0923-MS1)**

Source: 2303571-01

Prepared: 03/27/23 Analyzed: 03/29/23

C10-C28 (DRO)	439	50	mg/kg	500	10.6	85.6	70-130				
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		85.5	30-150				

**Matrix Spike Dup (BGC0923-MSD1)**

Source: 2303571-01

Prepared: 03/27/23 Analyzed: 03/29/23

C10-C28 (DRO)	443	50	mg/kg	500	10.6	86.4	70-130	0.942	20		
Surrogate: <i>o</i> -Terphenyl	9.86		"	12.5		78.9	30-150				

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Project: Venrick #1A

Project Number: [none]  
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**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BGC0937 - EPA 3050B**

**Blank (BGC0937-BLK1)**

Prepared: 03/27/23 Analyzed: 03/29/23

Boron ND 0.0100 mg/L

**LCS (BGC0937-BS1)**

Prepared: 03/27/23 Analyzed: 03/29/23

Boron 5.98 0.0100 mg/L 5.00 120 80-120

**Duplicate (BGC0937-DUP1)**

Source: 2303540-01

Prepared: 03/27/23 Analyzed: 03/29/23

Boron 0.249 0.0100 mg/L 0.237 5.12 20

**Matrix Spike (BGC0937-MS1)**

Source: 2303540-01

Prepared: 03/27/23 Analyzed: 03/29/23

Boron 6.09 0.0100 mg/L 5.00 0.237 117 75-125

**Matrix Spike Dup (BGC0937-MSD1)**

Source: 2303540-01

Prepared: 03/27/23 Analyzed: 03/29/23

Boron 6.14 0.0100 mg/L 5.00 0.237 118 75-125 0.785 25

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Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

**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 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	"							
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 (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			
Copper	46.8	0.400	"	40.0		117	80-120			
Lead	22.6	0.200	"	20.0		113	80-120			
Nickel	45.9	0.400	"	40.0		115	80-120			
Selenium	4.32	0.260	"	4.00		108	80-120			
Silver	2.09	0.0200	"	2.00		105	80-120			
Zinc	44.2	0.400	"	40.0		111	80-120			

**Duplicate (BGC0765-DUP1)**

Source: 2303539-01

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

Arsenic	2.87	0.273	mg/kg dry	3.20		11.0	20			
Barium	227	0.547	"	296		26.2	20			QM-02
Cadmium	0.116	0.273	"	0.140		18.5	20			
Copper	6.96	0.547	"	6.89		1.04	20			
Lead	7.75	0.273	"	10.3		27.9	20			QM-07
Nickel	9.05	0.547	"	8.65		4.48	20			
Selenium	0.649	0.260	"	0.577		11.8	20			
Silver	0.0407	0.0273	"	0.0375		7.94	20			
Zinc	34.4	0.547	"	32.7		5.21	20			

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.



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

**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 BGC0765 - EPA 3050B**

**Matrix Spike (BGC0765-MS1)**

Source: 2303539-01

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

Arsenic	59.9	0.273	mg/kg dry	54.7	3.20	104	75-125			
Barium	291	0.547	"	54.7	296	NR	75-125			QM-02
Cadmium	2.94	0.273	"	2.73	0.140	102	75-125			
Copper	59.4	0.547	"	54.7	6.89	96.0	75-125			
Lead	30.3	0.273	"	27.3	10.3	73.3	75-125			QM-07
Nickel	61.6	0.547	"	54.7	8.65	96.9	75-125			
Selenium	4.98	0.260	"	5.47	0.577	80.5	75-125			
Silver	3.49	0.0273	"	2.73	0.0375	126	75-125			QM-07
Zinc	85.5	0.547	"	54.7	32.7	96.5	75-125			

**Matrix Spike Dup (BGC0765-MSD1)**

Source: 2303539-01

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

Arsenic	59.0	0.273	mg/kg dry	54.7	3.20	102	75-125	1.44	25	
Barium	289	0.547	"	54.7	296	NR	75-125	0.645	25	QM-02
Cadmium	2.89	0.273	"	2.73	0.140	101	75-125	1.52	25	
Copper	58.6	0.547	"	54.7	6.89	94.6	75-125	1.33	25	
Lead	30.2	0.273	"	27.3	10.3	73.0	75-125	0.348	25	QM-07
Nickel	61.1	0.547	"	54.7	8.65	95.8	75-125	0.950	25	
Selenium	4.15	0.260	"	5.47	0.577	65.4	75-125	18.1	25	QM-07
Silver	3.39	0.0273	"	2.73	0.0375	122	75-125	3.02	25	
Zinc	84.5	0.547	"	54.7	32.7	94.7	75-125	1.20	25	

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 03/29/23 12:11

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGC0901 - 3060A Mod**

**Blank (BGC0901-BLK1)**

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BGC0901-BS1)**

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent      25.3      0.30 mg/kg wet      25.0      101      80-120

**Duplicate (BGC0901-DUP1)**

**Source: 2303552-01**

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BGC0901-MS1)**

**Source: 2303552-01**

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent      33.1      0.30 mg/kg dry      33.9      ND      97.8      75-125

**Matrix Spike Dup (BGC0901-MSD1)**

**Source: 2303552-01**

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent      33.3      0.30 mg/kg dry      33.9      ND      98.4      75-125      0.612      20

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 03/29/23 12:11

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

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

**Batch BGC0912 - General Preparation**

**Blank (BGC0912-BLK1)**

Prepared: 03/27/23 Analyzed: 03/28/23

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

**LCS (BGC0912-BS1)**

Prepared: 03/27/23 Analyzed: 03/28/23

Calcium	4.88	0.0500	mg/L wet	5.00		97.7	70-130			
Magnesium	4.70	0.0500	"	5.00		93.9	70-130			
Sodium	4.87	0.0500	"	5.00		97.3	70-130			

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 03/29/23 12:11

**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 BGC0899 - General Preparation**

**Duplicate (BGC0899-DUP1)**

**Source: 2303552-01**

Prepared & Analyzed: 03/27/23

% Solids	73.1		%		73.8			0.989		20	
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Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 03/29/23 12:11

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

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

**Batch BGC0958 - General Preparation**

**Blank (BGC0958-BLK1)**

Prepared & Analyzed: 03/28/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGC0958-BS1)**

Prepared & Analyzed: 03/28/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BGC0958-DUP1)**

**Source: 2303556-01**

Prepared & Analyzed: 03/28/23

Specific Conductance (EC) 0.287 0.0100 mmhos/cm 0.292 1.90 20

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 03/29/23 12:11

**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 BGC0957 - General Preparation**

**LCS (BGC0957-BS1)**

Prepared & Analyzed: 03/28/23

pH	9.14	pH Units	9.18	99.6	95-105
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**Duplicate (BGC0957-DUP1)**

Source: 2303556-01

Prepared & Analyzed: 03/28/23

pH	8.65	pH Units	8.64	0.116	20
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Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
03/29/23 12:11

### Notes and Definitions

- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 01, 2023

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

RE: Venrick #1A

Work Order #2304363

Enclosed are the results of analyses for samples received by Summit Scientific on 04/18/23 11:27. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V1-6"	2304363-01	Soil	04/17/23 15:00	04/18/23 11:27
V1-S	2304363-02	Soil	04/17/23 15:20	04/18/23 11:27
V1-W	2304363-03	Soil	04/17/23 15:15	04/18/23 11:27

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 1 of 1
2304363	

Client: <b>PADCO</b>		Project Manager: <b>Ty Smith</b>		Company: <b>PADCO</b>	
Address:		E-Mail: <b>ty.smith@esair.com</b>		Project Name/Location:	
City/State/Zip:		Project Name: <b>HARPHAM #3 FLOWLINE REMOVAL</b>		AFE#:	
Phone:		Project Number:		PO/Billing Codes:	
Sampler Name: <b>Ty Smith</b>		Contact: <b>DAN RICHMOND</b>			

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 Gro/Box	915 Dro/Box	915 pH	915 Sarc/Box		
1	V1-6"	4/17	15:00	2			X							X	X	X	X	
2																		
3	V1-S	4/17	15:20	2			X							X	X	X	X	
4																		
5	V1-W	4/17	15:15	2			X							X	X	X	X	
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <del>_____</del>	Date/Time: <del>_____</del>	Received by: <del>_____</del>	Date/Time: <del>_____</del>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <del>_____</del>	Date/Time: <del>_____</del>	Received by: <del>_____</del>	Date/Time: <del>_____</del>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <del>_____</del>	Date/Time: <del>_____</del>	Received by: <del>_____</del>	Date/Time: <del>_____</del>	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <b>7.7</b>	Corrected Temperature: _____	IR gun #: <b>2</b>	HNO3 lot #: _____			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2304363

Client: RADCO Client Project ID: Humphum #3 Flowline Removal

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

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

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <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"/>	
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"/>	
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"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

MM  
Custodian Printed Name

4/18/23 11:27  
Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

**V1-6"**  
**2304363-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0604	04/19/23	04/19/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0448	112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>180</b>	50	mg/kg	1	BGD0606	04/19/23	04/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.2	130 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

**V1-6''  
2304363-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.657</b>	0.0100	mg/L	1	BGD0767	04/24/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>470</b>	0.0581	mg/L dry	1	BGD0741	04/23/23	04/29/23	EPA 6020B	
<b>Magnesium</b>	<b>59.4</b>	0.0581	"	"	"	"	"	"	
<b>Sodium</b>	<b>162</b>	0.0581	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.87</b>	0.00100	units	1	BGD0994	04/29/23	04/29/23	Calculation	

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

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>86.0</b>		%	1	BGD0610	04/19/23	04/19/23	Calculation	

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

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.836</b>	0.0100	mmhos/cm	1	BGD0779	04/24/23	04/24/23	EPA 120.1	

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

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

**V1-6''**  
**2304363-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/17/23 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.21</b>		pH Units	1	BGD0782	04/24/23	04/24/23	EPA 9045D	

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

**V1-S**  
**2304363-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0604	04/19/23	04/19/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0380	94.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0606	04/19/23	04/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.6	109 %		30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

**V1-S**  
**2304363-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.217</b>	0.0100	mg/L	1	BGD0767	04/24/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>47.0</b>	0.0578	mg/L dry	1	BGD0741	04/23/23	04/29/23	EPA 6020B	
<b>Magnesium</b>	<b>9.20</b>	0.0578	"	"	"	"	"	"	
<b>Sodium</b>	<b>36.3</b>	0.0578	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.27</b>	0.00100	units	1	BGD0994	04/29/23	04/29/23	Calculation	

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

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>86.5</b>		%	1	BGD0610	04/19/23	04/19/23	Calculation	

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

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.552</b>	0.0100	mmhos/cm	1	BGD0779	04/24/23	04/24/23	EPA 120.1	

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

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

**V1-S**  
**2304363-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/17/23 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.47</b>		pH Units	1	BGD0782	04/24/23	04/24/23	EPA 9045D	

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

**V1-W**  
**2304363-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0604	04/19/23	04/20/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0406	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0606	04/19/23	04/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.9	111 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

**V1-W**  
**2304363-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.306</b>	0.0100	mg/L	1	BGD0767	04/24/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>9770</b>	0.0581	mg/L dry	1	BGD0741	04/23/23	04/29/23	EPA 6020B	
<b>Magnesium</b>	<b>186</b>	0.0581	"	"	"	"	"	"	
<b>Sodium</b>	<b>196</b>	0.0581	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.538</b>	0.00100	units	1	BGD0994	04/29/23	04/29/23	Calculation	

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

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>86.0</b>		%	1	BGD0610	04/19/23	04/19/23	Calculation	

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

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.680</b>	0.0100	mmhos/cm	1	BGD0779	04/24/23	04/24/23	EPA 120.1	

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

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

**V1-W**  
**2304363-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/17/23 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.45</b>		pH Units	1	BGD0782	04/24/23	04/24/23	EPA 9045D	

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

### 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 BGD0604 - EPA 5030 Soil MS

##### Blank (BGD0604-BLK1)

Prepared & Analyzed: 04/19/23

Benzene	ND	0.0020	mg/kg								
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>	0.0368		"	0.0400		92.1	50-150				
<i>Surrogate: Toluene-d8</i>	0.0383		"	0.0400		95.8	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0409		"	0.0400		102	50-150				

##### LCS (BGD0604-BS1)

Prepared & Analyzed: 04/19/23

Benzene	0.101	0.0020	mg/kg	0.125		81.1	70-130				
Toluene	0.0940	0.0050	"	0.125		75.2	70-130				
Ethylbenzene	0.142	0.0050	"	0.125		113	70-130				
m,p-Xylene	0.288	0.010	"	0.250		115	70-130				
o-Xylene	0.139	0.0050	"	0.125		111	70-130				
1,2,4-Trimethylbenzene	0.161	0.0050	"	0.125		129	70-130				
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125		125	70-130				
Naphthalene	0.142	0.0038	"	0.125		113	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0362		"	0.0400		90.5	50-150				
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.4	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.7	50-150				

##### Matrix Spike (BGD0604-MS1)

Source: 2304340-01

Prepared & Analyzed: 04/19/23

Benzene	0.100	0.0020	mg/kg	0.125	ND	80.3	70-130				
Toluene	0.0926	0.0050	"	0.125	ND	74.1	70-130				
Ethylbenzene	0.140	0.0050	"	0.125	ND	112	70-130				
m,p-Xylene	0.285	0.010	"	0.250	ND	114	70-130				
o-Xylene	0.137	0.0050	"	0.125	ND	109	70-130				
1,2,4-Trimethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130				
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125	ND	125	70-130				
Naphthalene	0.158	0.0038	"	0.125	ND	126	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0375		"	0.0400		93.7	50-150				
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		98.0	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0392		"	0.0400		97.9	50-150				

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

**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 BGD0604 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGD0604-MSD1)</b>	<b>Source: 2304340-01</b>			<b>Prepared &amp; Analyzed: 04/19/23</b>						
Benzene	0.109	0.0020	mg/kg	0.125	ND	87.4	70-130	8.50	30	
Toluene	0.0942	0.0050	"	0.125	ND	75.4	70-130	1.67	30	
Ethylbenzene	0.139	0.0050	"	0.125	ND	112	70-130	0.793	30	
m,p-Xylene	0.283	0.010	"	0.250	ND	113	70-130	0.688	30	
o-Xylene	0.137	0.0050	"	0.125	ND	109	70-130	0.132	30	
1,2,4-Trimethylbenzene	0.162	0.0050	"	0.125	ND	129	70-130	0.801	30	
1,3,5-Trimethylbenzene	0.157	0.0050	"	0.125	ND	125	70-130	0.498	30	
Naphthalene	0.142	0.0038	"	0.125	ND	113	70-130	10.6	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>50-150</i>			

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGD0606 - EPA 3550A**

**Blank (BGD0606-BLK1)**

Prepared: 04/19/23 Analyzed: 04/21/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	8.50		"	12.5		68.0		30-150		

**LCS (BGD0606-BS1)**

Prepared: 04/19/23 Analyzed: 04/21/23

C10-C28 (DRO)	467	50	mg/kg	500		93.4		70-130		
Surrogate: <i>o</i> -Terphenyl	12.0		"	12.5		96.4		30-150		

**Matrix Spike (BGD0606-MS1)**

Source: 2304340-01

Prepared: 04/19/23 Analyzed: 04/21/23

C10-C28 (DRO)	430	50	mg/kg	500	19.8	82.0		70-130		
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		85.3		30-150		

**Matrix Spike Dup (BGD0606-MSD1)**


Source: 2304340-01

Prepared: 04/19/23 Analyzed: 04/21/23

C10-C28 (DRO)	489	50	mg/kg	500	19.8	93.8		70-130	12.7	20
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		83.7		30-150		

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

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

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

**Batch BGD0767 - EPA 3050B**

**Blank (BGD0767-BLK1)**

Prepared: 04/24/23 Analyzed: 04/29/23

Boron ND 0.0100 mg/L

**LCS (BGD0767-BS1)**

Prepared: 04/24/23 Analyzed: 04/29/23

Boron 4.85 0.0100 mg/L 5.00 96.9 80-120

**Duplicate (BGD0767-DUP1)**

Source: 2304258-03

Prepared: 04/24/23 Analyzed: 04/29/23

Boron 0.172 0.0100 mg/L 0.181 5.03 20

**Matrix Spike (BGD0767-MS1)**

Source: 2304258-03

Prepared: 04/24/23 Analyzed: 04/29/23

Boron 5.16 0.0100 mg/L 5.00 0.181 99.6 75-125

**Matrix Spike Dup (BGD0767-MSD1)**

Source: 2304258-03

Prepared: 04/24/23 Analyzed: 04/29/23

Boron 4.83 0.0100 mg/L 5.00 0.181 92.9 75-125 6.72 25

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

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

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

**Batch BGD0741 - General Preparation**

**Blank (BGD0741-BLK1)**

Prepared: 04/23/23 Analyzed: 04/29/23

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

**LCS (BGD0741-BS1)**

Prepared: 04/23/23 Analyzed: 04/29/23

Calcium	4.87	0.0500	mg/L wet	5.00	97.3	70-130				
Magnesium	4.40	0.0500	"	5.00	88.0	70-130				
Sodium	4.18	0.0500	"	5.00	83.6	70-130				

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

**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 BGD0610 - General Preparation**

**Duplicate (BGD0610-DUP1)**

**Source: 2304356-01**

Prepared & Analyzed: 04/19/23

% Solids	84.3		%		83.9			0.491	20	
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Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

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

**Summit Scientific**

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

**Batch BGD0779 - General Preparation**

**Blank (BGD0779-BLK1)**

Prepared & Analyzed: 04/24/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGD0779-BS1)**

Prepared & Analyzed: 04/24/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

**Duplicate (BGD0779-DUP1)**


Source: 2304363-01

Prepared & Analyzed: 04/24/23

Specific Conductance (EC) 0.828 0.0100 mmhos/cm 0.836 0.926 20

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 15:32

**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 BGD0782 - General Preparation**

**LCS (BGD0782-BS1)**

Prepared & Analyzed: 04/24/23

pH	9.08	pH Units	9.18	98.9	95-105
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**Duplicate (BGD0782-DUP1)**


Source: 2304363-01

Prepared & Analyzed: 04/24/23

pH	8.34	pH Units	8.21	1.57	20
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Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 15:32

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 01, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Venrick #1A

Work Order #2304486

Enclosed are the results of analyses for samples received by Summit Scientific on 04/21/23 18:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VIA-E	2304486-01	Soil	04/21/23 11:00	04/21/23 18:07
VIA-W	2304486-02	Soil	04/21/23 10:10	04/21/23 18:07
VIA-N	2304486-03	Soil	04/21/23 10:05	04/21/23 18:07

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.*

Client: <b>PADCO</b>		Send Data To: Project Manager: <b>Ty Smith</b>		Send Invoice To: Company: <b>PADCO</b>	
Address:		E-Mail: <b>ty.smith@summit-sc.com</b>		Project Name/Location:	
City/State/Zip:		Project Name: <b>VENRICK #1A</b>		AFE#:	
Phone:		Project Number:		PO/Billing Codes:	
Sampler Name: <b>Ty Smith</b>				Contact: <b>DAN RICHMOND</b>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	9/15 GRO/BEL	9/15 DR/PRO	9/15 PH	9/15 EC/SAR	9/15 POREN	
1	VIA-E	4/21	11:00	2			X						X	X	X	X	X	TAT 3-DAY
2													X	X	X	X	X	
3	VIA-W	4/21	10:10	2			X						X	X	X	X	X	
4													X	X	X	X	X	TAT STANDARD
5	VIA-N	4/21	10:05	2			X						X	X	X	X	X	
6													X	X	X	X	X	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by:	Date/Time:	Received by:	Date/Time:	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: <b>Ty Smith</b>	Date/Time: <b>4/21 11:58</b>	Received by: <b>Scott Slaby</b>	Date/Time: <b>4/21/23 1807</b>	3 Days	Field Temp.	
Temperature Upon Receipt: <b>11.8</b>	Corrected Temperature: <b>-</b>	IR gun #: <b>02</b>	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2304486

Client: Padco Client Project ID: J4M23 Van Venrick #1A

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

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

Temp (°C) 11.8

Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <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"/>	
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"/>	
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"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> ? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

SS  
Custodian Printed Name

4/21/23 1801  
Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

**VIA-E**  
**2304486-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0877	04/26/23	04/27/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0451	113 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0880	04/26/23	04/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.0	120 %		30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

**V1A-E**  
**2304486-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.417</b>	0.0100	mg/L	1	BGD0898	04/26/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>533</b>	0.0579	mg/L dry	1	BGD0772	04/24/23	04/29/23	EPA 6020B	
<b>Magnesium</b>	<b>85.0</b>	0.0579	"	"	"	"	"	"	
<b>Sodium</b>	<b>89.2</b>	0.0579	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.947</b>	0.00100	units	1	BGD1017	04/30/23	04/30/23	Calculation	

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

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>86.3</b>		%	1	BGD0839	04/25/23	04/26/23	Calculation	

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

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.384</b>	0.0100	mmhos/cm	1	BGD0831	04/25/23	04/25/23	EPA 120.1	

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

Summit Scientific

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Lesair Environmental  
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 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

**V1A-E**  
**2304486-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/21/23 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.03</b>		pH Units	1	BGD0832	04/25/23	04/25/23	EPA 9045D	

Summit Scientific

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11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

**VIA-W**  
**2304486-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0877	04/26/23	04/27/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0406	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0296	73.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>260</b>	50	mg/kg	1	BGD0880	04/26/23	04/28/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>68</b>	50	"	"	"	"	"	"	

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	96.0 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

**VIA-W**  
**2304486-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.401</b>	0.0100	mg/L	1	BGD0898	04/26/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>805</b>	0.0587	mg/L dry	1	BGD0772	04/24/23	04/29/23	EPA 6020B	
<b>Magnesium</b>	<b>133</b>	0.0587	"	"	"	"	"	"	
<b>Sodium</b>	<b>143</b>	0.0587	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.23</b>	0.00100	units	1	BGD1017	04/30/23	04/30/23	Calculation	

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

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>85.2</b>		%	1	BGD0839	04/25/23	04/26/23	Calculation	

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

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.495</b>	0.0100	mmhos/cm	1	BGD0831	04/25/23	04/25/23	EPA 120.1	

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

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

**VIA-W**  
**2304486-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/21/23 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.45</b>		pH Units	1	BGD0832	04/25/23	04/25/23	EPA 9045D	

Summit Scientific

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Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

**V1A-N**  
**2304486-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0877	04/26/23	04/27/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0489	122 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0296	74.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>1300</b>	50		mg/kg	1	BGD0880	04/26/23	04/28/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>350</b>	50		"	"	"	"	"	"	

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.3	90.1 %		30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

**VIA-N**  
**2304486-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.797</b>	0.0100	mg/L	1	BGD0898	04/26/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>1310</b>	0.0588	mg/L dry	1	BGD0772	04/24/23	04/29/23	EPA 6020B	
<b>Magnesium</b>	<b>111</b>	0.0588	"	"	"	"	"	"	
<b>Sodium</b>	<b>142</b>	0.0588	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.01</b>	0.00100	units	1	BGD1017	04/30/23	04/30/23	Calculation	

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

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>85.0</b>		%	1	BGD0839	04/25/23	04/26/23	Calculation	

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

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.583</b>	0.0100	mmhos/cm	1	BGD0831	04/25/23	04/25/23	EPA 120.1	

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

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

**V1A-N**  
**2304486-03 (Soil)**

**Summit Scientific**


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

Date Sampled: **04/21/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.70</b>		pH Units	1	BGD0832	04/25/23	04/25/23	EPA 9045D	

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

### 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 BGD0877 - EPA 5030 Soil MS

##### Blank (BGD0877-BLK1)

Prepared & Analyzed: 04/26/23

Benzene	ND	0.0020	mg/kg							
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>	0.0390		"	0.0400		97.5	50-150			
<i>Surrogate: Toluene-d8</i>	0.0407		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0430		"	0.0400		107	50-150			

##### LCS (BGD0877-BS1)

Prepared & Analyzed: 04/26/23

Benzene	0.0773	0.0020	mg/kg	0.100		77.3	70-130			
Toluene	0.0891	0.0050	"	0.100		89.1	70-130			
Ethylbenzene	0.103	0.0050	"	0.100		103	70-130			
m,p-Xylene	0.213	0.010	"	0.200		107	70-130			
o-Xylene	0.105	0.0050	"	0.100		105	70-130			
1,2,4-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.0831	0.0038	"	0.100		83.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0325		"	0.0400		81.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0360		"	0.0400		89.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0382		"	0.0400		95.6	50-150			

##### Matrix Spike (BGD0877-MS1)

Source: 2304462-01

Prepared: 04/26/23 Analyzed: 04/27/23

Benzene	0.0834	0.0020	mg/kg	0.100	ND	83.4	70-130			
Toluene	0.0905	0.0050	"	0.100	ND	90.5	70-130			
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
m,p-Xylene	0.217	0.010	"	0.200	ND	108	70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130			
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
Naphthalene	0.0759	0.0038	"	0.100	ND	75.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0358		"	0.0400		89.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0384		"	0.0400		96.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0433		"	0.0400		108	50-150			

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.



Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

**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 BGD0877 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGD0877-MSD1)</b>	<b>Source: 2304462-01</b>			Prepared: 04/26/23 Analyzed: 04/27/23					
Benzene	0.0929	0.0020	mg/kg	0.100	ND	92.9	70-130	10.9	30
Toluene	0.112	0.0050	"	0.100	ND	112	70-130	21.5	30
Ethylbenzene	0.0952	0.0050	"	0.100	ND	95.2	70-130	13.5	30
m,p-Xylene	0.196	0.010	"	0.200	ND	98.1	70-130	10.1	30
o-Xylene	0.0934	0.0050	"	0.100	ND	93.4	70-130	8.58	30
1,2,4-Trimethylbenzene	0.0797	0.0050	"	0.100	ND	79.7	70-130	27.9	30
1,3,5-Trimethylbenzene	0.0832	0.0050	"	0.100	ND	83.2	70-130	26.2	30
Naphthalene	0.0914	0.0038	"	0.100	ND	91.4	70-130	18.4	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0472</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0316</i>		<i>"</i>	<i>0.0400</i>		<i>79.0</i>	<i>50-150</i>		

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

**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 BGD0880 - EPA 3550A**

**Blank (BGD0880-BLK1)**

Prepared & Analyzed: 04/26/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	17.8		"	12.5		142		30-150			

**LCS (BGD0880-BS1)**

Prepared & Analyzed: 04/26/23

C10-C28 (DRO)	556	50	mg/kg	500		111		70-130			
Surrogate: <i>o</i> -Terphenyl	15.1		"	12.5		121		30-150			

**Matrix Spike (BGD0880-MS1)**

Source: 2304462-01

Prepared & Analyzed: 04/26/23

C10-C28 (DRO)	546	50	mg/kg	500	8.65	107		70-130			
Surrogate: <i>o</i> -Terphenyl	17.6		"	12.5		141		30-150			

**Matrix Spike Dup (BGD0880-MSD1)**

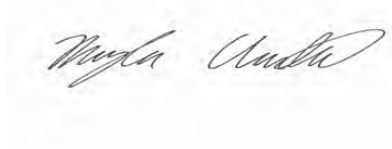
Source: 2304462-01

Prepared & Analyzed: 04/26/23

C10-C28 (DRO)	597	50	mg/kg	500	8.65	118		70-130	9.00	20	
Surrogate: <i>o</i> -Terphenyl	17.7		"	12.5		142		30-150			

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

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

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

**Batch BGD0898 - EPA 3050B**

**Blank (BGD0898-BLK1)**

Prepared: 04/26/23 Analyzed: 04/28/23

Boron ND 0.0100 mg/L

**LCS (BGD0898-BS1)**

Prepared: 04/26/23 Analyzed: 04/28/23

Boron 5.78 0.0100 mg/L 5.00 116 80-120

**Duplicate (BGD0898-DUP1)**

**Source: 2304480-01**

Prepared: 04/26/23 Analyzed: 04/29/23

Boron 0.651 0.0100 mg/L 0.677 3.96 20

**Matrix Spike (BGD0898-MS1)**

**Source: 2304480-01**

Prepared: 04/26/23 Analyzed: 04/29/23

Boron 5.69 0.0100 mg/L 5.00 0.677 100 75-125

**Matrix Spike Dup (BGD0898-MSD1)**

**Source: 2304480-01**

Prepared: 04/26/23 Analyzed: 04/29/23

Boron 5.54 0.0100 mg/L 5.00 0.677 97.2 75-125 2.75 25

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

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

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

**Batch BGD0772 - General Preparation**

**Blank (BGD0772-BLK1)**

Prepared: 04/24/23 Analyzed: 04/29/23

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

**LCS (BGD0772-BS1)**

Prepared: 04/24/23 Analyzed: 04/29/23

Calcium	6.16	0.0500	mg/L wet	5.00	123	70-130				
Magnesium	5.51	0.0500	"	5.00	110	70-130				
Sodium	5.49	0.0500	"	5.00	110	70-130				

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

**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 BGD0839 - General Preparation**

**Duplicate (BGD0839-DUP1)**

**Source: 2304480-01**

Prepared: 04/25/23 Analyzed: 04/26/23

% Solids	89.6	%		90.3		0.837	20
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Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

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

**Summit Scientific**

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

**Batch BGD0831 - General Preparation**

**Blank (BGD0831-BLK1)**

Prepared & Analyzed: 04/25/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGD0831-BS1)**

Prepared & Analyzed: 04/25/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BGD0831-DUP1)**

Source: 2304391-01

Prepared & Analyzed: 04/25/23

Specific Conductance (EC) 0.746 0.0100 mmhos/cm 0.748 0.321 20

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 11:21

**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 BGD0832 - General Preparation**

**LCS (BGD0832-BS1)**

Prepared & Analyzed: 04/25/23

pH                                      8.95                                      pH Units                                      9.18                                      97.5                                      95-105

**Duplicate (BGD0832-DUP1)**

Source: 2304391-01

Prepared & Analyzed: 04/25/23

pH                                      7.99                                      pH Units                                      8.05                                      0.748                                      20

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 11:21

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 01, 2023

Ty Smith  
Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton, CO 80127  
RE: PADCO Venrick #1A  
Work Order #2304487

Enclosed are the results of analyses for samples received by Summit Scientific on 04/21/23 18:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 10:47

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PILE #V1	2304487-01	Soil	04/21/23 09:55	04/21/23 18:01

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.*

Client: <u>PAPCO</u>		Send Data To: Project Manager: <u>Ty Smith</u>		Send Invoice To: Company: <u>PAPCO</u>	
Address:		E-Mail: <u>ty.smith@lesar.com</u>		Project Name/Location:	
City/State/Zip:		Project Name: <u>Venrick #1A</u>		AFE#:	
Phone:		Project Number:		PO/Billing Codes:	
Sampler Name: <u>Ty Smith</u>				Contact: <u>DAN RICHMOND</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 GRP/BTA	915 DRP/ORD	915 pH	915 EC/SAR		915 BAREN
1	<u>PILE # V1</u>	<u>4/21</u>	<u>9:53</u>	<u>2</u>			<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
2																		
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14																		
15																		

Relinquished by:	Date/Time:	Received by:	Date/Time:	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.	
<u>Ty Smith</u>	<u>4/21 17:53</u>	<u>Scott Sleech</u>	<u>4/23 18:01</u>	Standard	Field Turb.	
Temperature Upon Receipt:	<u>11.8</u>	Corrected Temperature		IR gun #:	<u>02</u>	HNO3 lot #:

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2304487

Client: Padco Client Project ID: Verrick #1A

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

[x] [ ] [ ] [ ] [ ]

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

Temp (°C) 11.8

Thermometer # 02

Table with 5 columns: Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC? (1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1), If samples are acid preserved for metals, is the pH <= 2? (1), If dissolved metals are requested, were samples field filtered?

Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

JF Custodian Printed Name

4/21/23/807 Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 10:47

**PILE #V1**  
**2304487-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0781	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.026</b>	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>24</b>	0.50		"	"	"	"	"	"	

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0516	129 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0301	75.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0477	119 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>1100</b>	50		mg/kg	1	BGD0778	04/24/23	04/25/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>190</b>	50		"	"	"	"	"	"	

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.3	90.1 %		30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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.



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 10:47

**PILE #V1**  
**2304487-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>1.84</b>	0.0100	mg/L	1	BGD0898	04/26/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>466</b>	0.0630	mg/L dry	1	BGD0772	04/24/23	04/29/23	EPA 6020B	
<b>Magnesium</b>	<b>69.5</b>	0.0630	"	"	"	"	"	"	
<b>Sodium</b>	<b>173</b>	0.0630	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.98</b>	0.00100	units	1	BGD1017	04/30/23	04/30/23	Calculation	

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

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>79.4</b>		%	1	BGD0839	04/25/23	04/26/23	Calculation	

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

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.667</b>	0.0100	mmhos/cm	1	BGD0831	04/25/23	04/25/23	EPA 120.1	

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

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 10:47

**PILE #V1**  
**2304487-01 (Soil)**

**Summit Scientific**

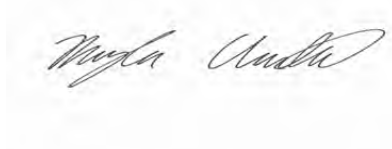
**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/21/23 09:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.59</b>		pH Units	1	BGD0832	04/25/23	04/25/23	EPA 9045D	

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.*





Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 10:47

### 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 BGD0781 - EPA 5030 Soil MS

##### Blank (BGD0781-BLK1)

Prepared & Analyzed: 04/24/23

Benzene	ND	0.0020	mg/kg							
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>	0.0454		"	0.0400		114	50-150			
<i>Surrogate: Toluene-d8</i>	0.0333		"	0.0400		83.2	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0355		"	0.0400		88.8	50-150			

##### LCS (BGD0781-BS1)

Prepared & Analyzed: 04/24/23

Benzene	0.107	0.0020	mg/kg	0.125		85.4	70-130			
Toluene	0.135	0.0050	"	0.125		108	70-130			
Ethylbenzene	0.141	0.0050	"	0.125		113	70-130			
m,p-Xylene	0.287	0.010	"	0.250		115	70-130			
o-Xylene	0.149	0.0050	"	0.125		119	70-130			
1,2,4-Trimethylbenzene	0.154	0.0050	"	0.125		124	70-130			
1,3,5-Trimethylbenzene	0.158	0.0050	"	0.125		127	70-130			
Naphthalene	0.155	0.0038	"	0.125		124	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0482		"	0.0400		121	50-150			
<i>Surrogate: Toluene-d8</i>	0.0343		"	0.0400		85.7	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0402		"	0.0400		101	50-150			

##### Matrix Spike (BGD0781-MS1)

Source: 2304421-21

Prepared & Analyzed: 04/24/23

Benzene	0.107	0.0020	mg/kg	0.125	ND	85.7	70-130			
Toluene	0.136	0.0050	"	0.125	ND	109	70-130			
Ethylbenzene	0.144	0.0050	"	0.125	ND	116	70-130			
m,p-Xylene	0.296	0.010	"	0.250	ND	118	70-130			
o-Xylene	0.149	0.0050	"	0.125	ND	119	70-130			
1,2,4-Trimethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130			
1,3,5-Trimethylbenzene	0.146	0.0050	"	0.125	ND	116	70-130			
Naphthalene	0.147	0.0038	"	0.125	ND	118	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0467		"	0.0400		117	50-150			
<i>Surrogate: Toluene-d8</i>	0.0346		"	0.0400		86.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0366		"	0.0400		91.5	50-150			

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.



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 10:47

**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 BGD0781 - EPA 5030 Soil MS**

Matrix Spike Dup (BGD0781-MSD1)	Source: 2304421-21			Prepared & Analyzed: 04/24/23						
Benzene	0.107	0.0020	mg/kg	0.125	ND	85.4	70-130	0.365	30	
Toluene	0.135	0.0050	"	0.125	ND	108	70-130	0.618	30	
Ethylbenzene	0.142	0.0050	"	0.125	ND	114	70-130	1.63	30	
m,p-Xylene	0.283	0.010	"	0.250	ND	113	70-130	4.47	30	
o-Xylene	0.142	0.0050	"	0.125	ND	114	70-130	4.88	30	
1,2,4-Trimethylbenzene	0.159	0.0050	"	0.125	ND	127	70-130	5.88	30	
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.125	ND	111	70-130	4.75	30	
Naphthalene	0.156	0.0038	"	0.125	ND	125	70-130	5.45	30	
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0340		"	0.0400		85.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0342		"	0.0400		85.6	50-150			

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 10:47

**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 BGD0778 - EPA 3550A**

**Blank (BGD0778-BLK1)**

Prepared & Analyzed: 04/24/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	9.78		"	12.5		78.2	30-150				

**LCS (BGD0778-BS1)**

Prepared & Analyzed: 04/24/23

C10-C28 (DRO)	467	50	mg/kg	500		93.4	70-130				
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		99.7	30-150				

**Matrix Spike (BGD0778-MS1)**

Source: 2304421-21

Prepared & Analyzed: 04/24/23

C10-C28 (DRO)	391	50	mg/kg	500	16.1	74.9	70-130				
Surrogate: <i>o</i> -Terphenyl	8.58		"	12.5		68.7	30-150				

**Matrix Spike Dup (BGD0778-MSD1)**


Source: 2304421-21

Prepared & Analyzed: 04/24/23

C10-C28 (DRO)	396	50	mg/kg	500	16.1	76.0	70-130	1.39	20		
Surrogate: <i>o</i> -Terphenyl	8.30		"	12.5		66.4	30-150				

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 10:47

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

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

**Batch BGD0898 - EPA 3050B**

**Blank (BGD0898-BLK1)**

Prepared: 04/26/23 Analyzed: 04/28/23

Boron ND 0.0100 mg/L

**LCS (BGD0898-BS1)**

Prepared: 04/26/23 Analyzed: 04/28/23

Boron 5.78 0.0100 mg/L 5.00 116 80-120

**Duplicate (BGD0898-DUP1)**

Source: 2304480-01

Prepared: 04/26/23 Analyzed: 04/29/23

Boron 0.651 0.0100 mg/L 0.677 3.96 20

**Matrix Spike (BGD0898-MS1)**

Source: 2304480-01

Prepared: 04/26/23 Analyzed: 04/29/23

Boron 5.69 0.0100 mg/L 5.00 0.677 100 75-125

**Matrix Spike Dup (BGD0898-MSD1)**

Source: 2304480-01

Prepared: 04/26/23 Analyzed: 04/29/23

Boron 5.54 0.0100 mg/L 5.00 0.677 97.2 75-125 2.75 25

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 10:47

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

**Summit Scientific**

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

**Batch BGD0772 - General Preparation**

**Blank (BGD0772-BLK1)**

Prepared: 04/24/23 Analyzed: 04/29/23

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

**LCS (BGD0772-BS1)**

Prepared: 04/24/23 Analyzed: 04/29/23

Calcium	6.16	0.0500	mg/L wet	5.00		123	70-130			
Magnesium	5.51	0.0500	"	5.00		110	70-130			
Sodium	5.49	0.0500	"	5.00		110	70-130			

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.*





Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 10:47

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

**Summit Scientific**


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

**Batch BGD0839 - General Preparation**

Duplicate (BGD0839-DUP1)	Source: 2304480-01		Prepared: 04/25/23 Analyzed: 04/26/23	
% Solids	89.6	%	90.3	0.837 20

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 10:47

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

**Summit Scientific**

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

**Batch BGD0831 - General Preparation**

**Blank (BGD0831-BLK1)**

Prepared & Analyzed: 04/25/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGD0831-BS1)**

Prepared & Analyzed: 04/25/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BGD0831-DUP1)**


Source: 2304391-01

Prepared & Analyzed: 04/25/23

Specific Conductance (EC) 0.746 0.0100 mmhos/cm 0.748 0.321 20

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/01/23 10:47

**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 BGD0832 - General Preparation**

**LCS (BGD0832-BS1)**

Prepared & Analyzed: 04/25/23

pH	8.95	pH Units	9.18	97.5	95-105
----	------	----------	------	------	--------

**Duplicate (BGD0832-DUP1)**


Source: 2304391-01

Prepared & Analyzed: 04/25/23

pH	7.99	pH Units	8.05	0.748	20
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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.*





Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/01/23 10:47

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 11, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Venrick Spill #1A

Work Order #2305068

Enclosed are the results of analyses for samples received by Summit Scientific on 05/03/23 15:23. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V1A-Nn	2305068-01	Soil	05/03/23 12:46	05/03/23 15:23
V1A-Ns	2305068-02	Soil	05/03/23 12:40	05/03/23 15:23
V1A-Ne	2305068-03	Soil	05/03/23 13:20	05/03/23 15:23
V1A-Nw	2305068-04	Soil	05/03/23 13:10	05/03/23 15:23
V1A-Na	2305068-05	Soil	05/03/23 12:35	05/03/23 15:23

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.*

23 05068



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: **INVOICE PADCO**

Temp 16.6 C

Standard Turn Around  RUSH TURN AROUND 72-HR

Project Name:	<del>HARRIS FLOWERS</del>	Sampled By:	Ty Smith
Project Number:	VENRICK SPILL	Signature:	<i>Ty Smith</i>
Sample Location:	<del>HARRIS #3</del> VENRICK #1A	Date:	05/03/2023

Sample Name	Sample Information				Matrix*	Preservation						Analysis				
	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)				
VIA-Na	05/02	12:46	1	G	Soil							X	X			
VIA-NS		12:40	1	G								X	X			
VIA-Ne		13:20	1	G								X	X			
VIA-NW		13:10	1	G								X	X			
VIA-Na		12:35	1	G								X	X	X		
VIA-Nb		14:00	1	G												HOLD

Relinquished By:	<i>Ty Smith</i>	Date:	05/03/2023	Time:	13:19
Received By:	<i>Scott Shuckey</i>	Date:	5/3/23	Time:	1523

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

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2305068

Client: Leggier Environmental / Padco Client Project ID: ST-513m-5 Ven rick Spill

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

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

Temp (°C) 16.6 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <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"/>	
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"/>	
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"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

JA  
Custodian Printed Name

5/13/23 1523  
Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

**VIA-Nn**  
**2305068-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/23 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGE0148	05/04/23	05/06/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **05/03/23 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0471	118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/23 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0150	05/04/23	05/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/23 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.70	69.6 %		30-150		"	"	"	"	

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.



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

**VIA-Ns**  
**2305068-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/23 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGE0148	05/04/23	05/06/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **05/03/23 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0488	122 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	109 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/23 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0150	05/04/23	05/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/23 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.1	88.9 %		30-150		"	"	"	"	

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.



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

**VIA-Ne**  
**2305068-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGE0148	05/04/23	05/06/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **05/03/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0482	121 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0425	106 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0150	05/04/23	05/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.5	92.2 %		30-150		"	"	"	"	

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.



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

**VIA-Nw**  
**2305068-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGE0148	05/04/23	05/06/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **05/03/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0466	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	96.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0425	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0150	05/04/23	05/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.35	58.8 %	30-150		"	"	"	"	

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.



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

**VIA-Na**  
**2305068-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGE0148	05/04/23	05/06/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **05/03/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0463	116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0150	05/04/23	05/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/23 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.80	62.4 %		30-150		"	"	"	"	

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

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/11/23 13:36

**VIA-Na**  
**2305068-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/03/23 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.35</b>		pH Units	1	BGE0335	05/10/23	05/10/23	EPA 9045D	

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.*





Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

### 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 BGE0148 - EPA 5030 Soil MS

##### Blank (BGE0148-BLK1)

Prepared: 05/04/23 Analyzed: 05/05/23

Benzene	ND	0.0020	mg/kg							
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>	0.0450		"	0.0400		112	50-150			
<i>Surrogate: Toluene-d8</i>	0.0383		"	0.0400		95.7	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0425		"	0.0400		106	50-150			

##### LCS (BGE0148-BS1)

Prepared: 05/04/23 Analyzed: 05/05/23

Benzene	0.0818	0.0020	mg/kg	0.100		81.8	70-130			
Toluene	0.0777	0.0050	"	0.100		77.7	70-130			
Ethylbenzene	0.0720	0.0050	"	0.100		72.0	70-130			
m,p-Xylene	0.144	0.010	"	0.200		71.9	70-130			
o-Xylene	0.0702	0.0050	"	0.100		70.2	70-130			
1,2,4-Trimethylbenzene	0.0712	0.0050	"	0.100		71.2	70-130			
1,3,5-Trimethylbenzene	0.0722	0.0050	"	0.100		72.2	70-130			
Naphthalene	0.0747	0.0038	"	0.100		74.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0442		"	0.0400		111	50-150			
<i>Surrogate: Toluene-d8</i>	0.0410		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0457		"	0.0400		114	50-150			

##### Matrix Spike (BGE0148-MS1)

Source: 2305044-01

Prepared: 05/04/23 Analyzed: 05/05/23

Benzene	0.0893	0.0020	mg/kg	0.100	ND	89.3	70-130			
Toluene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
Ethylbenzene	0.0894	0.0050	"	0.100	ND	89.4	70-130			
m,p-Xylene	0.177	0.010	"	0.200	ND	88.7	70-130			
o-Xylene	0.0806	0.0050	"	0.100	ND	80.6	70-130			
1,2,4-Trimethylbenzene	0.0870	0.0050	"	0.100	ND	87.0	70-130			
1,3,5-Trimethylbenzene	0.0918	0.0050	"	0.100	ND	91.8	70-130			
Naphthalene	0.0776	0.0038	"	0.100	ND	77.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0443		"	0.0400		111	50-150			
<i>Surrogate: Toluene-d8</i>	0.0405		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0434		"	0.0400		108	50-150			

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/11/23 13:36

**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 BGE0148 - EPA 5030 Soil MS**

Matrix Spike Dup (BGE0148-MSD1)	Source: 2305044-01			Prepared: 05/04/23		Analyzed: 05/05/23				
Benzene	0.0881	0.0020	mg/kg	0.100	ND	88.1	70-130	1.29	30	
Toluene	0.0877	0.0050	"	0.100	ND	87.7	70-130	1.17	30	
Ethylbenzene	0.0905	0.0050	"	0.100	ND	90.5	70-130	1.17	30	
m,p-Xylene	0.180	0.010	"	0.200	ND	89.9	70-130	1.43	30	
o-Xylene	0.0824	0.0050	"	0.100	ND	82.4	70-130	2.10	30	
1,2,4-Trimethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130	3.59	30	
1,3,5-Trimethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	70-130	2.20	30	
Naphthalene	0.0750	0.0038	"	0.100	ND	75.0	70-130	3.38	30	
Surrogate: 1,2-Dichloroethane-d4	0.0466		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	50-150			

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

**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 BGE0150 - EPA 3550A**

**Blank (BGE0150-BLK1)**

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		110		30-150			

**LCS (BGE0150-BS1)**

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	491	50	mg/kg	500		98.2		70-130			
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		118		30-150			

**Matrix Spike (BGE0150-MS1)**

Source: 2305044-01

Prepared: 05/04/23 Analyzed: 05/05/23

C10-C28 (DRO)	448	50	mg/kg	500	ND	89.6		70-130			
Surrogate: <i>o</i> -Terphenyl	8.98		"	12.5		71.8		30-150			

**Matrix Spike Dup (BGE0150-MSD1)**

Source: 2305044-01

Prepared: 05/04/23 Analyzed: 05/05/23

C10-C28 (DRO)	495	50	mg/kg	500	ND	99.0		70-130	9.98	20	
Surrogate: <i>o</i> -Terphenyl	10.8		"	12.5		86.6		30-150			

Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/11/23 13:36

**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 BGE0335 - General Preparation**

**LCS (BGE0335-BS1)**

Prepared & Analyzed: 05/10/23

pH	9.08	pH Units	9.18	98.9	95-105
----	------	----------	------	------	--------

**Duplicate (BGE0335-DUP1)**

Source: 2304427-31

Prepared & Analyzed: 05/10/23

pH	8.48	pH Units	8.46	0.236	20
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Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/11/23 13:36

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 09, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Venrick Spill #1A

Work Order #2305066

Enclosed are the results of analyses for samples received by Summit Scientific on 05/03/23 15:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V1A-SWn	2305066-01	Soil	05/03/23 13:50	05/03/23 15:22

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.*



2305066

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: **INVOICE PADCO**

Temp 16.6 °C

~~Standard Turn Around~~ **72-HR**  RUSH TURN AROUND

Project Name:	VENRICK Spills	Sampled By:	Ty Smith
Project Number:		Signature:	Ty Smith
Sample Location:	VENRICK #1A	Date:	05/03/2023

Sample Name	Sample Information				Matrix*	Preservation						Analysis	
	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)	
VIA-SWn	05/02	13:50	1	G	SOIL							X	X
<del>VIA-SWn</del>	<del>05/02</del>	<del>13:50</del>	<del>1</del>	<del>G</del>	<del>SOIL</del>								

Relinquished By:	Ty Smith	Date:	05/03/2023	Time:	15:19
Received By:	Scott Gledhill	Date:	5/3/23	Time:	15:22

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

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2305066

Client: Lesair Environmental/Padco Client Project ID: Venrick Spill

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

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

Temp (°C) 16.6

Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <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"/>	
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"/>	
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"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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"/>	
<u>Additional Comments (if any):</u>				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

J

Custodian Printed Name

5/13/23 1522

Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:08

**V1A-SWn**  
**2305066-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGE0147	05/04/23	05/06/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **05/03/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0430	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0427	107 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0149	05/04/23	05/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.2	105 %		30-150		"	"	"	"	

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:08

### 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 BGE0147 - EPA 5030 Soil MS

##### Blank (BGE0147-BLK1)

Prepared: 05/04/23 Analyzed: 05/06/23

Benzene	ND	0.0020	mg/kg							
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>	0.0462		"	0.0400		115	50-150			
<i>Surrogate: Toluene-d8</i>	0.0387		"	0.0400		96.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0417		"	0.0400		104	50-150			

##### LCS (BGE0147-BS1)

Prepared: 05/04/23 Analyzed: 05/06/23

Benzene	0.0814	0.0020	mg/kg	0.100		81.4	70-130			
Toluene	0.0781	0.0050	"	0.100		78.1	70-130			
Ethylbenzene	0.0736	0.0050	"	0.100		73.6	70-130			
m,p-Xylene	0.145	0.010	"	0.200		72.6	70-130			
o-Xylene	0.0774	0.0050	"	0.100		77.4	70-130			
1,2,4-Trimethylbenzene	0.0716	0.0050	"	0.100		71.6	70-130			
1,3,5-Trimethylbenzene	0.0735	0.0050	"	0.100		73.5	70-130			
Naphthalene	0.0733	0.0038	"	0.100		73.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0448		"	0.0400		112	50-150			
<i>Surrogate: Toluene-d8</i>	0.0409		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0446		"	0.0400		111	50-150			

##### Matrix Spike (BGE0147-MS1)

Source: 2305041-21

Prepared: 05/04/23 Analyzed: 05/06/23

Benzene	0.0853	0.0020	mg/kg	0.100	ND	85.3	70-130			
Toluene	0.0841	0.0050	"	0.100	ND	84.1	70-130			
Ethylbenzene	0.0849	0.0050	"	0.100	ND	84.9	70-130			
m,p-Xylene	0.169	0.010	"	0.200	ND	84.5	70-130			
o-Xylene	0.0773	0.0050	"	0.100	ND	77.3	70-130			
1,2,4-Trimethylbenzene	0.0833	0.0050	"	0.100	ND	83.3	70-130			
1,3,5-Trimethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130			
Naphthalene	0.0853	0.0038	"	0.100	ND	85.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0469		"	0.0400		117	50-150			
<i>Surrogate: Toluene-d8</i>	0.0408		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0434		"	0.0400		109	50-150			

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.



Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/09/23 15:08

**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		

**Batch BGE0147 - EPA 5030 Soil MS**

Matrix Spike Dup (BGE0147-MSD1)	Source: 2305041-21			Prepared: 05/04/23 Analyzed: 05/06/23						
Benzene	0.0866	0.0020	mg/kg	0.100	ND	86.6	70-130	1.50	30	
Toluene	0.0853	0.0050	"	0.100	ND	85.3	70-130	1.42	30	
Ethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130	6.03	30	
m,p-Xylene	0.177	0.010	"	0.200	ND	88.5	70-130	4.68	30	
o-Xylene	0.0805	0.0050	"	0.100	ND	80.5	70-130	4.11	30	
1,2,4-Trimethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	70-130	4.92	30	
1,3,5-Trimethylbenzene	0.0919	0.0050	"	0.100	ND	91.9	70-130	5.61	30	
Naphthalene	0.0762	0.0038	"	0.100	ND	76.2	70-130	11.2	30	
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400		106	50-150			

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.*



Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/09/23 15:08

**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 BGE0149 - EPA 3550A**

**Blank (BGE0149-BLK1)**

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5	98.6	30-150					

**LCS (BGE0149-BS1)**

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	531	50	mg/kg	500	106	70-130					
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5	97.7	30-150					

**Matrix Spike (BGE0149-MS1)**

Source: 2305041-21

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	489	50	mg/kg	500	11.8	95.5	70-130				
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5	102	30-150					

**Matrix Spike Dup (BGE0149-MSD1)**

Source: 2305041-21

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	499	50	mg/kg	500	11.8	97.4	70-130	1.89	20		
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5	103	30-150					

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.*



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:08

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 09, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Venrick Spill #1A

Work Order #2305067

Enclosed are the results of analyses for samples received by Summit Scientific on 05/03/23 15:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:10

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V1A-SWnn	2305067-01	Soil	05/03/23 13:50	05/03/23 15:22

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.*

2305067



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: **INVOICE PADCO**

Temp 16.6 °C

Standard Turn Around  **72-HR RUSH TURN AROUND**

Project Name:	VENRICK # Spill	Sampled By:	Ty Smith
Project Number:		Signature:	Ty Smith
Sample Location:	VENRICK # 1A	Date:	05/03/2023

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)								
VIA-SWnn	05/02	13:50	1	G	Soil						X	915 GRO/STEX	X							

Relinquished By:	Ty Smith	Date:	05/03/2023	Time:	15:18
Received By:	Scott Shady	Date:	5/3/23	Time:	15:22

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

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2305067

Client: Lesair Environmental/Padco Client Project ID: Vehrick Spill

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

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

Temp (°C) 16.6 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <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"/>	
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"/>	
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"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

JI

Custodian Printed Name

5/3/23 1522

Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:10

**V1A-SWnn**  
**2305067-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGE0147	05/04/23	05/06/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **05/03/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0459	115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0149	05/04/23	05/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/23 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.3	106 %		30-150		"	"	"	"	

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.



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:10

### 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 BGE0147 - EPA 5030 Soil MS

##### Blank (BGE0147-BLK1)

Prepared: 05/04/23 Analyzed: 05/06/23

Benzene	ND	0.0020	mg/kg							
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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0462		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150			

##### LCS (BGE0147-BS1)

Prepared: 05/04/23 Analyzed: 05/06/23

Benzene	0.0814	0.0020	mg/kg	0.100		81.4	70-130			
Toluene	0.0781	0.0050	"	0.100		78.1	70-130			
Ethylbenzene	0.0736	0.0050	"	0.100		73.6	70-130			
m,p-Xylene	0.145	0.010	"	0.200		72.6	70-130			
o-Xylene	0.0774	0.0050	"	0.100		77.4	70-130			
1,2,4-Trimethylbenzene	0.0716	0.0050	"	0.100		71.6	70-130			
1,3,5-Trimethylbenzene	0.0735	0.0050	"	0.100		73.5	70-130			
Naphthalene	0.0733	0.0038	"	0.100		73.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0448		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0446		"	0.0400		111	50-150			

##### Matrix Spike (BGE0147-MS1)

Source: 2305041-21

Prepared: 05/04/23 Analyzed: 05/06/23

Benzene	0.0853	0.0020	mg/kg	0.100	ND	85.3	70-130			
Toluene	0.0841	0.0050	"	0.100	ND	84.1	70-130			
Ethylbenzene	0.0849	0.0050	"	0.100	ND	84.9	70-130			
m,p-Xylene	0.169	0.010	"	0.200	ND	84.5	70-130			
o-Xylene	0.0773	0.0050	"	0.100	ND	77.3	70-130			
1,2,4-Trimethylbenzene	0.0833	0.0050	"	0.100	ND	83.3	70-130			
1,3,5-Trimethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130			
Naphthalene	0.0853	0.0038	"	0.100	ND	85.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		109	50-150			

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.



Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/09/23 15:10

**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 BGE0147 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGE0147-MSD1)</b>	<b>Source: 2305041-21</b>			Prepared: 05/04/23 Analyzed: 05/06/23						
Benzene	0.0866	0.0020	mg/kg	0.100	ND	86.6	70-130	1.50	30	
Toluene	0.0853	0.0050	"	0.100	ND	85.3	70-130	1.42	30	
Ethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130	6.03	30	
m,p-Xylene	0.177	0.010	"	0.200	ND	88.5	70-130	4.68	30	
o-Xylene	0.0805	0.0050	"	0.100	ND	80.5	70-130	4.11	30	
1,2,4-Trimethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	70-130	4.92	30	
1,3,5-Trimethylbenzene	0.0919	0.0050	"	0.100	ND	91.9	70-130	5.61	30	
Naphthalene	0.0762	0.0038	"	0.100	ND	76.2	70-130	11.2	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0460</i>		<i>"</i>	<i>0.0400</i>		<i>115</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			

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.*



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:10

**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 BGE0149 - EPA 3550A**

**Blank (BGE0149-BLK1)**

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.6	30-150				

**LCS (BGE0149-BS1)**

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	531	50	mg/kg	500		106	70-130				
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.7	30-150				

**Matrix Spike (BGE0149-MS1)**

Source: 2305041-21

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	489	50	mg/kg	500	11.8	95.5	70-130				
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102	30-150				

**Matrix Spike Dup (BGE0149-MSD1)**

Source: 2305041-21

Prepared & Analyzed: 05/04/23

C10-C28 (DRO)	499	50	mg/kg	500	11.8	97.4	70-130	1.89	20		
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5		103	30-150				

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.*



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick Spill #1A

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/09/23 15:10

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 24, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: Venrick Frm 19

Work Order #2103099

Enclosed are the results of analyses for samples received by Summit Scientific on 03/04/21 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick Frm 19  
Project Number: 12-0221-004  
Project Manager: Ty Smith

**Reported:**  
10/24/23 14:38

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VB	2103099-01	Soil	03/03/21 14:03	03/04/21 11:30
V10	2103099-02	Soil	03/03/21 14:00	03/04/21 11:30

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.*



**Sample Receipt Checklist**

S2 Work Order 2103099

Client: LES AIR ENVIRONMENTAL Client Project ID: VENRICK FRM 19

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

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

Temp (°C) 6

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> ? 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 <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> ? 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 <sup>(1)</sup> ? 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):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

RZ  
Custodian Printed Name or Initials

*RZ*  
Signature of Custodian

3/4/21  
Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: Venrick Frm 19  
Project Number: 12-0221-004  
Project Manager: Ty Smith

**Reported:**  
10/24/23 14:38

**VB**  
**2103099-01 (Soil)**

Summit Scientific

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **03/03/21 14:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEC0230	03/11/21	03/12/21	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/03/21 14:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.74	0.200	mg/kg dry	1	BEC0490	03/29/21	03/29/21	EPA 6020B	
Barium	150	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Selenium	0.836	0.260	"	"	"	"	"	"	

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

Date Sampled: **03/03/21 14:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	75.9	0.0500	mg/L dry	1	BEC0232	03/11/21	03/16/21	EPA 6020B	
Magnesium	14.8	0.0500	"	"	"	"	"	"	
Sodium	14.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/03/21 14:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.399	0.100	units	1	BEC0285	03/16/21	03/16/21	Calculation	

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

Date Sampled: **03/03/21 14:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BEC0146	03/08/21	03/09/21	Calculation	

Summit Scientific

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 Littleton CO, 80127

Project: Venrick Frm 19  
 Project Number: 12-0221-004  
 Project Manager: Ty Smith

**Reported:**  
 10/24/23 14:38

**VB**  
**2103099-01 (Soil)**

**Summit Scientific**

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

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

Date Sampled: **03/03/21 14:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.277	0.0100	mmhos/cm	1	BEC0263	03/12/21	03/12/21	EPA 120.1	

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

Date Sampled: **03/03/21 14:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BEC0264	03/12/21	03/12/21	EPA 9045D	

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Project: Venrick Frm 19  
Project Number: 12-0221-004  
Project Manager: Ty Smith

**Reported:**  
10/24/23 14:38

**V10**  
**2103099-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **03/03/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.296</b>	0.0100	mg/L	1	BEC0230	03/11/21	03/12/21	EPA 6020B	

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

Date Sampled: **03/03/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>32.2</b>	0.0500	mg/L dry	1	BEC0232	03/11/21	03/16/21	EPA 6020B	
<b>Magnesium</b>	<b>6.99</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>88.0</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/03/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>3.66</b>	0.100	units	1	BEC0285	03/16/21	03/16/21	Calculation	

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

Date Sampled: **03/03/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>87.5</b>		%	1	BEC0146	03/08/21	03/09/21	Calculation	

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

Date Sampled: **03/03/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.424</b>	0.0100	mmhos/cm	1	BEC0263	03/12/21	03/12/21	EPA 120.1	

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

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**Reported:**  
 10/24/23 14:38

**V10**  
**2103099-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/03/21 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.39</b>		pH Units	1	BEC0264	03/12/21	03/12/21	EPA 9045D	

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 10/24/23 14:38

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

**Summit Scientific**

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

**Batch BEC0230 - EPA 3050B**

**Blank (BEC0230-BLK1)**

Prepared & Analyzed: 03/11/21

Boron ND 0.0100 mg/L

**LCS (BEC0230-BS1)**

Prepared & Analyzed: 03/11/21

Boron 5.21 0.0100 mg/L 5.00 104 80-120

**Duplicate (BEC0230-DUP1)**

Source: 2103092-01

Prepared & Analyzed: 03/11/21

Boron 0.330 0.0100 mg/L 0.314 5.12 20

**Matrix Spike (BEC0230-MS1)**

Source: 2103092-01

Prepared & Analyzed: 03/11/21

Boron 4.92 0.0100 mg/L 5.00 0.314 92.1 75-125

**Matrix Spike Dup (BEC0230-MSD1)**

Source: 2103092-01

Prepared & Analyzed: 03/11/21

Boron 5.09 0.0100 mg/L 5.00 0.314 95.5 75-125 3.46 25

Summit Scientific

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Project: Venrick Frm 19

Project Number: 12-0221-004  
Project Manager: Ty Smith

**Reported:**  
10/24/23 14:38

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BEC0490 - EPA 3050B**

**Blank (BEC0490-BLK1)**

Prepared & Analyzed: 03/29/21

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

**LCS (BEC0490-BS1)**

Prepared & Analyzed: 03/29/21

Arsenic	40.3	0.200	mg/kg wet	40.0	101	80-120
Barium	32.7	0.400	"	40.0	81.7	80-120
Cadmium	1.86	0.200	"	2.00	92.9	80-120
Selenium	3.29	0.260	"	4.00	82.2	80-120

**Duplicate (BEC0490-DUP1)**

Source: 2103099-01

Prepared & Analyzed: 03/29/21

Arsenic	4.31	0.200	mg/kg dry	4.74	9.59	20
Barium	133	0.400	"	150	11.4	20
Cadmium	0.156	0.200	"	0.185	16.8	20
Selenium	0.717	0.260	"	0.836	15.3	20

**Matrix Spike (BEC0490-MS1)**

Source: 2103099-01

Prepared & Analyzed: 03/29/21

Arsenic	44.9	0.200	mg/kg dry	46.1	4.74	87.0	75-125
Barium	191	0.400	"	46.1	150	90.7	75-125
Cadmium	2.21	0.200	"	2.31	0.185	87.7	75-125
Selenium	4.59	0.260	"	4.61	0.836	81.3	75-125

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**Reported:**  
 10/24/23 14:38

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

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

**Batch BEC0232 - General Preparation**

**Blank (BEC0232-BLK1)**

Prepared: 03/11/21 Analyzed: 03/16/21

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

**LCS (BEC0232-BS1)**

Prepared: 03/11/21 Analyzed: 03/16/21

Calcium	5.75	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	6.12	0.0500	"	5.00		122	70-130			
Sodium	6.14	0.0500	"	5.00		123	70-130			

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**Reported:**  
 10/24/23 14:38

**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 BEC0146 - General Preparation**

Duplicate (BEC0146-DUP1)	Source: 2103066-06		Prepared: 03/08/21 Analyzed: 03/09/21		
% Solids	85.3	%	83.0	2.73	20

Summit Scientific



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Project: Venrick Frm 19  
 Project Number: 12-0221-004  
 Project Manager: Ty Smith

**Reported:**  
 10/24/23 14:38

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

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

**Batch BEC0263 - General Preparation**

**Blank (BEC0263-BLK1)**

Prepared & Analyzed: 03/12/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BEC0263-BS1)**

Prepared & Analyzed: 03/12/21

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 90-110

**Duplicate (BEC0263-DUP1)**

Source: 2103097-01

Prepared & Analyzed: 03/12/21

Specific Conductance (EC) 0.809 0.0100 mmhos/cm 0.837 3.43 20

Summit Scientific

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 Littleton CO, 80127

Project: Venrick Frm 19  
 Project Number: 12-0221-004  
 Project Manager: Ty Smith

**Reported:**  
 10/24/23 14:38

**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 BEC0264 - General Preparation**

**LCS (BEC0264-BS1)**

Prepared & Analyzed: 03/12/21

pH 9.18 pH Units 9.21 99.7 95-105

**Duplicate (BEC0264-DUP1)**

Source: 2103097-01

Prepared & Analyzed: 03/12/21

pH 8.46 pH Units 8.47 0.118 20

Summit Scientific

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Project: Venrick Frm 19  
Project Number: 12-0221-004  
Project Manager: Ty Smith

**Reported:**  
10/24/23 14:38

### 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