

PADCO LLC

Remediation Project 15981

Gulley 1-D

Attachment B

Analytical Results

PRODUCED WATER PIT ANALYSIS

Prepared for:
PADCO LLC

Prepared by:
Lesair Environmental, Inc.
www.Lesair.com

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 05, 2021

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

RE: Gulley Pit

Work Order #2102045

Enclosed are the results of analyses for samples received by Summit Scientific on 02/03/21 09:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Michelle Clements
Technical Director



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G1	2102045-01	Soil	02/02/21 16:45	02/03/21 09:10
G2	2102045-02	Soil	02/02/21 16:45	02/03/21 09:10
G3	2102045-03	Soil	02/02/21 16:45	02/03/21 09:10
GS1	2102045-04	Soil	02/02/21 16:30	02/03/21 09:10
GS2	2102045-05	Soil	02/02/21 16:30	02/03/21 09:10
GS3	2102045-06	Soil	02/02/21 16:30	02/03/21 09:10
GS4	2102045-07	Soil	02/02/21 16:30	02/03/21 09:10

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.



Contact/Billing Information	
Name:	Lesair Environmental
Address:	11786 Shaffer Place, Suite 210
City/State/Zip:	Littleton, CO 80127
Phone Number:	303-904-2525
Fax Number:	303-904-7374
Project Manager:	Ty Smith
Email:	ty.smith@lesair.com

Notes:

* 48 HR TIMING

* EACH COC SHOULD HAVE OWN RPT

8.6 °C

Project Name:	GOLLEY PIT PROJECT	Sampled By:	Ty Smith
Project Number:	12-0121-002	Signature:	[Signature]
Sample Location:	GOLLEY 1-D	Date:	02/02/2021

Sample Name	Date Sampled	Time Sampled	Number of Samples	G=Grab, C= Composite	Matrix*	Preservation							Analysis					
						HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	PRO/ORO	GBTX	PH	SAR	EC	
G1	02/02/2021	16:45	1	G	S							X	X	X	X	X		
G2	02/02/2021	16:45	1	G	S							X	X	X	X	X		
G3	02/02/2021	16:45	1	G	S							X	X	X	X	X		
G51	02/02/2021	16:30	1	G	S							X	X	X	X	X		
G52	02/02/2021	16:30	1	G	S							X	X	X	X	X		
G53	02/02/2021	16:30	1	G	S							X	X	X	X	X		
G54	02/02/2021	16:30	1	G	S							X	X	X	X	X		Run for All

Relinquished By:	[Signature]	Date:	2/3/2021	Time:	9:10
Received By:	[Signature]	Date:	2/3/21	Time:	9:10

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



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

G1
2102045-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BEB0063	02/03/21	02/04/21	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		133 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BEB0058	02/03/21	02/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		93.4 %		30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.54			pH Units	1	BEB0066	02/04/21	02/04/21	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: Gulley Pit
Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

G1

2102045-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

G2
2102045-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0063	02/03/21	02/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0058	02/03/21	02/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.3 %	30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.62		pH Units	1	BEB0066	02/04/21	02/04/21	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: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

G3
2102045-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0063	02/03/21	02/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0058	02/03/21	02/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.0 %	30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/02/21 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.46		pH Units	1	BEB0066	02/04/21	02/04/21	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: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

GS1
2102045-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0063	02/03/21	02/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0058	02/03/21	02/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.4 %	30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.35		pH Units	1	BEB0066	02/04/21	02/04/21	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: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

GS2
2102045-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0063	02/03/21	02/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		132 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0058	02/03/21	02/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.1 %	30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.38		pH Units	1	BEB0066	02/04/21	02/04/21	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: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

GS3
2102045-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BEB0063	02/03/21	02/04/21	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		128 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BEB0058	02/03/21	02/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		97.4 %		30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	13700	11.9		mg/kg dry	1	BEB0059	02/03/21	02/03/21	EPA 6020B	
Magnesium	2200	5.93		"	"	"	"	"	"	

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: Gulley Pit

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 02/05/21 11:20

GS3
2102045-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Sodium	2360	5.93	mg/kg dry	1	BEB0059	02/03/21	02/03/21	EPA 6020B
---------------	-------------	------	-----------	---	---------	----------	----------	-----------

Calculated Analysis

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.94	0.100	units	1	BEB0072	02/04/21	02/04/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BEB0062	02/03/21	02/04/21	Calculation	
pH	9.11		pH Units	"	BEB0061	02/03/21	02/03/21	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.51	0.0100	mmhos/cm	1	BEB0060	02/03/21	02/03/21	EPA 120.1	

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: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

GS4
2102045-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0063	02/03/21	02/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0058	02/03/21	02/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.1 %	30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/02/21 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.36		pH Units	1	BEB0066	02/04/21	02/04/21	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: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

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 BEB0063 - EPA 5030 Soil MS

Blank (BEB0063-BLK1)

Prepared & Analyzed: 02/03/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0509		"	0.0400		127	23-173			
Surrogate: Toluene-d8	0.0418		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		94.9	21-167			

LCS (BEB0063-BS1)

Prepared & Analyzed: 02/03/21

Benzene	0.0714	0.0020	mg/kg	0.100		71.4	70-130			
Toluene	0.0774	0.0050	"	0.100		77.4	70-130			
Ethylbenzene	0.0871	0.0050	"	0.100		87.1	70-130			
m,p-Xylene	0.167	0.010	"	0.200		83.4	70-130			
o-Xylene	0.0854	0.0050	"	0.100		85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0400		97.8	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	21-167			

Matrix Spike (BEB0063-MS1)

Source: 2102045-01

Prepared & Analyzed: 02/03/21

Benzene	0.0778	0.0020	mg/kg	0.100	ND	77.8	70-130			
Toluene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
Ethylbenzene	0.0963	0.0050	"	0.100	ND	96.3	70-130			
m,p-Xylene	0.181	0.010	"	0.200	ND	90.6	70-130			
o-Xylene	0.0910	0.0050	"	0.100	ND	91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	21-167			

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: Gulley Pit

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 02/05/21 11:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEB0063 - EPA 5030 Soil MS

Matrix Spike Dup (BEB0063-MSD1)	Source: 2102045-01			Prepared & Analyzed: 02/03/21						
Benzene	0.0732	0.0020	mg/kg	0.100	ND	73.2	70-130	6.00	30	
Toluene	0.0762	0.0050	"	0.100	ND	76.2	70-130	8.59	30	
Ethylbenzene	0.0917	0.0050	"	0.100	ND	91.7	70-130	4.88	30	
m,p-Xylene	0.172	0.010	"	0.200	ND	86.0	70-130	5.13	30	
o-Xylene	0.0879	0.0050	"	0.100	ND	87.9	70-130	3.45	30	
Surrogate: 1,2-Dichloroethane-d4	0.0381		"	0.0400		95.2	23-173			
Surrogate: Toluene-d8	0.0369		"	0.0400		92.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.2	21-167			

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: Gulley Pit

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 02/05/21 11:20

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 BEB0058 - EPA 3550A

Blank (BEB0058-BLK1)

Prepared & Analyzed: 02/03/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BEB0058-BS1)

Prepared: 02/03/21 Analyzed: 02/04/21

C10-C28 (DRO)	458	50	mg/kg	500	37.0	91.7	70-130			
---------------	-----	----	-------	-----	------	------	--------	--	--	--

Matrix Spike (BEB0058-MS1)

Source: 2102045-01

Prepared: 02/03/21 Analyzed: 02/04/21

C10-C28 (DRO)	483	50	mg/kg	500	37.0	89.3	70-130			
---------------	-----	----	-------	-----	------	------	--------	--	--	--

Matrix Spike Dup (BEB0058-MSD1)

Source: 2102045-01

Prepared: 02/03/21 Analyzed: 02/04/21

C10-C28 (DRO)	490	50	mg/kg	500	37.0	90.6	70-130	1.37	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: Gulley Pit

Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

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

Batch BEB0059 - General Preparation

Blank (BEB0059-BLK1)

Prepared & Analyzed: 02/03/21

Calcium	ND	10.0	mg/kg wet						
Magnesium	ND	5.00	"						
Sodium	ND	5.00	"						

LCS (BEB0059-BS1)

Prepared & Analyzed: 02/03/21

Calcium	523	10.0	mg/kg wet	500	105	70-130			
Magnesium	599	5.00	"	500	120	70-130			
Sodium	559	5.00	"	500	112	70-130			

Duplicate (BEB0059-DUP1)

Source: 2102045-06

Prepared & Analyzed: 02/03/21

Calcium	13700	11.9	mg/kg dry	13700			0.137	20	
Magnesium	2260	5.93	"	2200			2.55	20	
Sodium	2410	5.93	"	2360			2.16	20	

Matrix Spike (BEB0059-MS1)

Source: 2102045-06

Prepared & Analyzed: 02/03/21

Calcium	14200	11.9	mg/kg dry	593	13700	94.4	70-130		
Magnesium	2790	5.93	"	593	2200	99.1	70-130		
Sodium	2810	5.93	"	593	2360	75.0	70-130		

Matrix Spike Dup (BEB0059-MSD1)

Source: 2102045-06

Prepared & Analyzed: 02/03/21

Calcium	14100	11.9	mg/kg dry	593	13700	76.1	70-130	0.768	25
Magnesium	2700	5.93	"	593	2200	84.2	70-130	3.21	25
Sodium	2970	5.93	"	593	2360	102	70-130	5.56	25

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: Gulley Pit

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 02/05/21 11:20

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 BEB0061 - General Preparation

LCS (BEB0061-BS1)		Prepared & Analyzed: 02/03/21										
pH	9.32		pH Units	9.21		101		95-105				
Duplicate (BEB0061-DUP1)		Source: 2102045-06		Prepared & Analyzed: 02/03/21								
pH	9.15		pH Units			9.11				0.438		20

Batch BEB0062 - General Preparation

Duplicate (BEB0062-DUP1)		Source: 2102045-06		Prepared: 02/03/21 Analyzed: 02/04/21								
% Solids	84.3		%			84.4				0.0711		20

Batch BEB0066 - General Preparation

LCS (BEB0066-BS1)		Prepared & Analyzed: 02/04/21										
pH	9.30		pH Units	9.21		101		95-105				
Duplicate (BEB0066-DUP1)		Source: 2102010-01		Prepared & Analyzed: 02/04/21								
pH	8.23		pH Units			8.23				0.00		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: Gulley Pit

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 02/05/21 11:20

Specific Conductance by EPA Method 120.1 - Quality Control

Summit Scientific

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

Batch BEB0060 - General Preparation

Blank (BEB0060-BLK1)

Prepared & Analyzed: 02/03/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEB0060-BS1)

Prepared & Analyzed: 02/03/21

Specific Conductance (EC) 0.762 0.0100 mmhos/cm 0.750 102 90-110

Duplicate (BEB0060-DUP1)

Source: 2102045-06

Prepared & Analyzed: 02/03/21

Specific Conductance (EC) 1.60 0.0100 mmhos/cm 1.51 5.57 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: Gulley Pit
Project Number: [none]
Project Manager: Ty Smith

Reported:
02/05/21 11:20

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