



June 7, 2021

Mr. Jason Davidson
Great Western Operating Company, LLC
1001 17th Street, Suite 2000
Denver, Colorado 80202

**RE: Additional Site Characterization Work Plan
Kielian 2-2 Battery and Associated Wellhead
COGCC Remediation Project #17902
Weld County, Colorado**

Mr. Davidson,

Entrada Consulting Group, Inc. (Entrada) has prepared this Additional Site Characterization Work Plan (SCWP) for Great Western Operating Company, LLC (GWOC) in association with the facility closure of the Kielian 2-2 tank battery (Facility ID# 463941) located in Weld County, Colorado. The site is located approximately 0.1 miles west of Weld County Road 23 and 0.3 miles north of the town of Milliken, Colorado. The center location coordinates of the Kielian 2-2 battery are 40.335401° north latitude and -104.850186° west longitude. A general location map is provided as Figure 1.

The Kielian 2-2 battery is surrounded by private ranching and agricultural mixed-use properties in all directions. There are residential properties approximately 400 feet to the west and 300 feet to the southeast. The wellhead is located 250 feet northwest of the battery. A small pond is in place 60 feet west of the battery and a gravel pit is in place 600 feet to the east. The Thompson and Platte Ditch is in place 1,180 feet south of the battery. There is one groundwater well mapped within a quarter mile of the battery. The 100-year floodplain of the Big Thompson River drainage is mapped 260 feet north of the battery. The battery is located within a Mule Deer Severe Winter Range Buffer and an Aquatic Native Species Conservation Waters buffer is mapped 1,050' northwest of the battery. Groundwater depth is approximately 8 feet below ground surface (ft-bgs) based on measurements collected in test pits during the initial investigation.

Entrada was retained by GWOC to observe the removal of tanks, a horizontal separator, and dump lines of the Kielian 2-2 battery. Environmental work associated with plugging and abandonment of the Kielian 2-2 wellhead is being submitted under Remediation Project #17900. Site investigation activities, field screening, and confirmation soil sampling activities were conducted on May 5, 2021 in accordance with COGCC 900 Series Rules and guidance documents. The Initial Form 27 Site Investigation and Remediation Workplan Document #402674196 was approved by the COGCC on April 30, 2021 and assigned Remediation Project #17902. Discreet soil samples were collected and analyzed pursuant to Rule 915, following the general sample collection guidance in Rule 915.e.(2).

INITIAL SOIL AND GROUNDWATER SAMPLING INVESTIGATION

During facility closure activities, soil and potential groundwater impacts were observed in test pits advanced to groundwater below the partially buried produced water tank and below the horizontal separator on May 5, 2021. The historic release was reported under Form 19 document number 402681921. Soils encountered during the initial investigation are characterized as silty sands and subrounded gravels associated with fluvial deposits of the Big Thompson River Drainage.

Soil sample locations, soil analytical results and field screening results are provided on Figure 2, as well as Table 1 and Table 2. Groundwater analytical results are provided on Figure 3, as well as Table 3. A photographic log of initial facility closure activities is provided as Attachment A and laboratory analytical reports are provided as Attachment B.

Soil and Groundwater Analysis

Soil samples to be submitted for laboratory analysis were collected in 4-ounce sample jars, sealed, labeled and placed into an ice-filled cooler for preservation. Groundwater samples were collected as grab samples using a 2" disposable bailer. Soil and groundwater samples were submitted to Origins Laboratory of Denver, Colorado following chain of custody procedures and analyzed for the following parameters by the stated methods:

All Confirmation Soil Samples (SS1-SS4)

- Benzene, Toluene, Ethylbenzene, Total Xylenes, Naphthalene (BTEXN), 1,2,4-Trimethylbenzene (TMB), 1,3,5-TMB and Total Petroleum Hydrocarbons (TPH)-Gasoline Range Organics (GRO) by EPA Method 8260D
- TPH-Diesel Range Organics (DRO) and TPH-Oil Range Organics (ORO) by EPA Method 8015D

Waste Characterization Soil Sample, Beneath Partially Buried Produced Water Tank (SS3@7-9)

- Analyzed for the full COGCC Table 915-1 analytical suite

Background Soil Sample (BG1)

- Arsenic and Barium by 6020A.

Groundwater Grab Samples

- BTEXN, 1,2,4-TMB, and 1,3,5-TMB by EPA Method 8260D.
- Chloride and Sulfate by IC 300.1
- Total Dissolved Solids (TDS) by 2540 C

Soil and Groundwater Analytical Results

Soil analytical results were reported for seven soil samples collected at various depths. Sample depth corresponds to the second number in the sample name and is also shown in the depth columns of Table 1 and Table 3. Groundwater analytical results were reported for two grab samples collected from test pits in the former separator and partially buried produced water tank areas. Due to the nature of advancing test pits to groundwater with an excavator, groundwater analytical results may not be representative of actual groundwater characteristics. A summary of analytical results exceeding their respective COGCC Table 915-1 standards is presented below:

Soil Analytical Results

- Concentrations exceeding the Table 915-1 Protection of Groundwater Soil Screening Levels (GWSSLs) were reported for BTEXN, TMBs, and TPH in soil samples SS2-5 and SS2-7.
- Concentrations exceeding Table 915-1 GWSSLs were reported for BTEXN, TMBs, and TPH in soil sample SS3@7-9.
- Arsenic was reported above the Table 915-1 GWSSL of 0.29 milligrams per kilogram (mg/kg) in confirmation soil sample SS3@7-9 (2.07 mg/kg) and background sample BG1-1 (2.42 mg/kg).
- Barium was reported above the Table 915-1 GWSSL of 82 mg/kg in confirmation soil sample SS3@7-9 (128 mg/kg) and background sample BG1-1 (232 mg/kg).

Groundwater Analytical Results

- Benzene was reported above the Table 915-1 standard of 5 micrograms per liter (µg/l) in test pit groundwater sample TPGW-2 (73 µg/l).
- 1,2,4-TMB was reported above the Table 915-1 standard of 67 µg/l in test pit groundwater samples TPGW-1 (240 µg/l) and TPGW-2 (1,550 µg/l).
- Sulfate was reported above the Table 915-1 standard of 250 µg/l in test pit groundwater sample TPGW-1 (414 µg/l).

All other analytes for samples submitted for laboratory analysis were reported below their respective Table 915-1 GWSSLs.

Additional Site Characterization

Entrada proposes to laterally delineate soil impacts by advancing test pits in the vicinity of the former separator area and the former partially buried produced water pit area. Test pits will be advanced approximately two to three feet into the groundwater table to ten ft-bgs. Soils will be screened at two-foot intervals using a photoionization detector (PID) calibrated with 100 parts per million (ppm) Isobutylene. The vadose zone interval with the highest degree of impact determined using field screening methods will be sampled and submitted for analysis of BTEXN, TMBs, and TPH. In the absence of impact, a soil sample will be collected from the bottom of vadose zone above the water table.

Prior to backfilling the test pits, temporary two-inch PVC piezometers will be installed with five feet of screen in up to five of the test pits. The following day, relative elevations of the PVC will be surveyed in the field using an auto level and depth to water measurements will be obtained to determine groundwater flow direction and groundwater gradient. Proposed test pit and temporary piezometer locations are provided on Figure 4. After soil impacts have been delineated laterally and groundwater flow direction has been determined, a supplemental work plan will be provided proposing a remediation strategy.

All waste generated during the additional site characterization will be managed and disposed of under GWOC manifest at Waste Management's North Weld Landfill in Ault, CO in accordance with Rules 905 and 906.

We appreciate the opportunity to assist Great Western Operating Company, LLC. Please contact me at (804) 513-0707 if you have any questions.

Sincerely,

ENTRADA CONSULTING GROUP

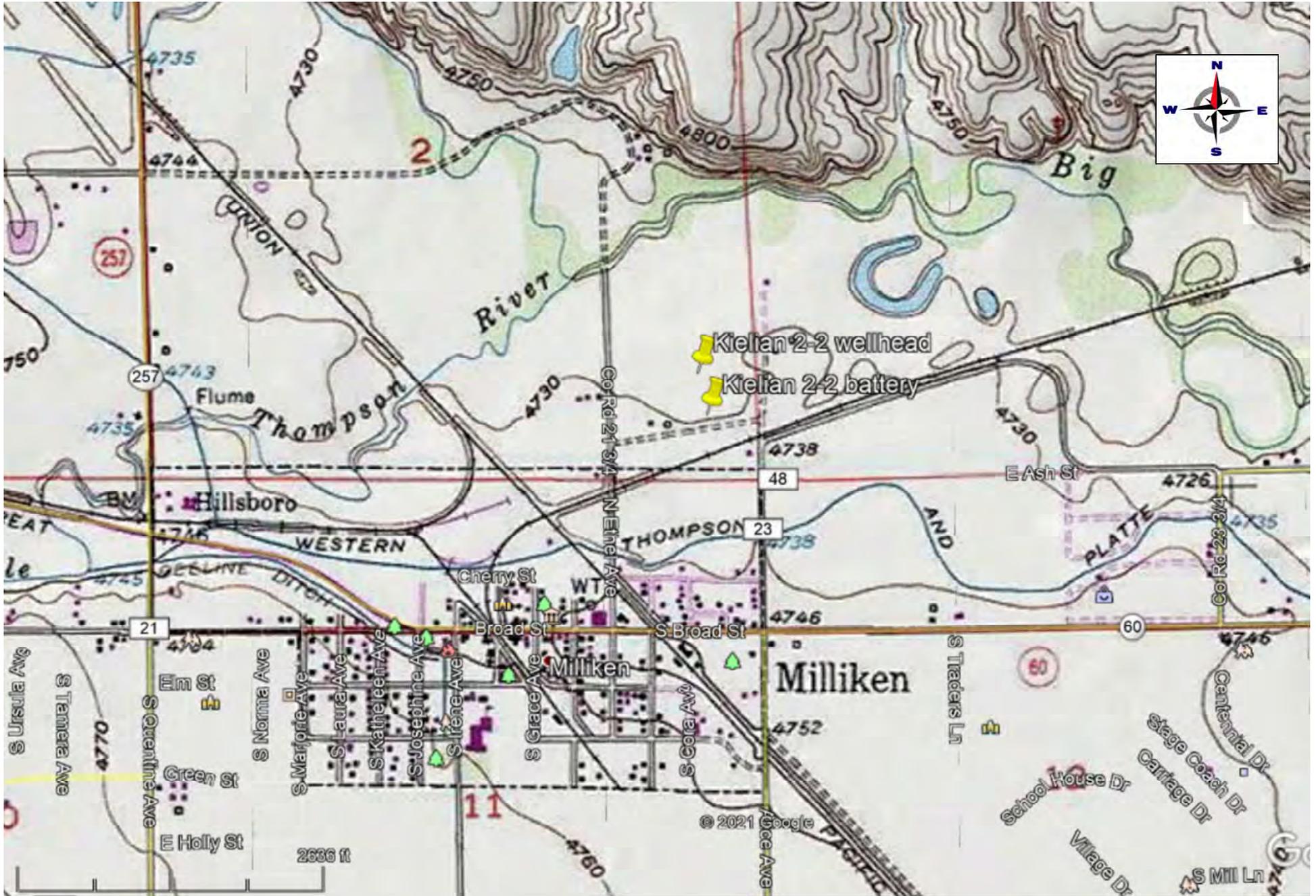
A handwritten signature in black ink, appearing to read 'Ben Baugh', with a stylized flourish at the end.

Ben Baugh, PG
Senior Project Geologist

Attachments:

Figure 1 – General Location Map
Figure 2 – Soil Analytical Results
Figure 3 – Groundwater Analytical Results
Figure 4 – Proposed Test Pit Locations
Table 1 – Soil Analytical Results: BTEX, TMBs, TPH
Table 2 – Soil Analytical Results: PAHs, Metals, Inorganics
Table 3 – Groundwater Analytical Results
Attachment A: Photographic Log
Attachment B: Laboratory Analytical Reports

FIGURES



PROJECT NO:	
DRAWN BY:	BFB
DATE:	4/14/2021

General Location Map
 Kielian 2-2 Battery and Wellhead
 S2 T4N R67W
 Weld County, Colorado




 1001 17th Street, Suite 2000
 Denver, CO 80202
 TEL. 303-398-0302

FIGURE
1

SS2-5		SS2-7	
5/5/2021		5/5/2021	
Toluene:	2.60	Benzene:	46.2
Ethylbenzene:	6.38	Ethylbenzene:	52.5
Total Xylenes:	10.2	Total Xylenes:	93.4
Naphthalene:	85.3	1,2,4-TMB:	160
1,2,4-TMB:	2,690	1,3,5-TMB:	23.3
GRO:	231,000	GRO:	7,460
TPH:	231,135	TPH:	7,460

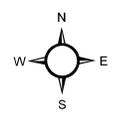
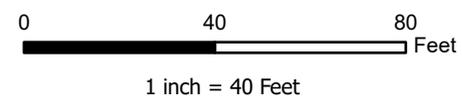
SS3@7-9	
5/5/2021	
Arsenic:	2.07
Barium:	128
Benzene:	4.48
Toluene:	2.72
Ethylbenzene:	247
Naphthalene:	0.19
1,2,4-TMB:	4,230
1,3,5-TMB:	6.46
GRO:	127,000
TPH:	127,290



LABEL LEGEND	
SS:	SOIL SAMPLE
FS:	FIELD SCREENING SAMPLE
PID:	PHOTO IONIZATION DETECTOR
GRO:	GASOLINE RANGE ORGANICS (mg/kg)
TMB:	TRIMETHYLBENZENE (mg/kg)
TPH:	TOTAL PETROLEUM HYDROCARBONS (mg/kg)
mg/kg:	MILLIGRAMS PER KILOGRAM

LEGEND	
	Screening Location
	Soil Sample

NOTES:
- Sample Label (PID Result)



Project No:	021-060
Map By:	JW
Date:	05/19/2021

SOIL ANALYTICAL RESULTS
KIELIAN BATTERY 2-2
GREAT WESTERN OPERATING COMPANY
SE 1/4 SE 1/4 SECTION 2
T4N R67W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure	2
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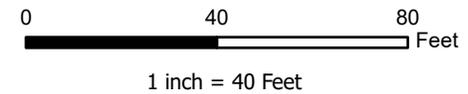
TPGW-2	
5/5/2021	
Benzene:	73
Toluene:	<4.00
Ethylbenzene:	200.0
Total Xylenes:	<4.00
Naphthalene:	64.3
1,2,4-TMB:	1,550
1,3,5-TMB:	<1.00
TDS:	1,140
Chloride Ion:	59.0
Sulfate Ion:	148

TPGW-1	
5/5/2021	
Benzene:	<4.00
Toluene:	<4.00
Ethylbenzene:	52.4
Total Xylenes:	<4.00
Naphthalene:	16.6
1,2,4-TMB:	240
1,3,5-TMB:	<4.00
TDS:	1,170
Chloride Ion:	53.7
Sulfate Ion:	414

LABEL LEGEND
 TMB: TRIMETHYLBENZENE
 TDS: TOTAL DISSOLVED SOLIDS
 TPGW: GROUNDWATER TEST PIT

LEGEND

 Groundwater Test Pit



Project No: 021-060

Map By: JW

Date: 05/19/2021

GROUNDWATER ANALYTICAL RESULTS
 KIELIAN BATTERY 2-2
 GREAT WESTERN OPERATING COMPANY
 SE 1/4 SE 1/4 SECTION 2
 T4N R67W, 6TH PM
 WELD COUNTY, COLORADO



1843 Sunlight Dr.
 Longmont, CO 80504
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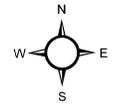
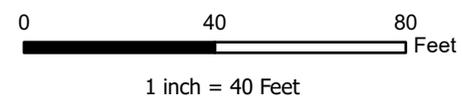
Figure

3



LEGEND

- Proposed Temporary Piezometer
- Test Pit
-



Project No: 021-060
Map By: JW
Date: 05/21/2021

PROPOSED TEST PIT AND TEMPORARY PIEZOMETER LOCATIONS
 KIELIAN BATTERY 2-2
 GREAT WESTERN OPERATING COMPANY
 SE 1/4 SE 1/4 SECTION 2
 T4N R67W, 6TH PM
 WELD COUNTY, COLORADO



1843 Sunlight Dr.
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Figure
4

TABLES

TABLE 1
Analytical Results Summary Table: BTEXN, TMBs, TPH
Kielian 2-2 Tank Battery and Wellhead, Weld County, CO

Sample Information				BTEXN + TMBs							TPH			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg							mg/kg			
COGCC Table 915-1 GWSSL -->				0.0026	0.69	0.78	9.9	0.0038	0.0081	0.0087	500	500	500	500
SS1-1	1	5/5/2021	0.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100	<0.00200	<0.00200	<0.200	<50.0	<200	<200
SS2-1	1	5/5/2021	0.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100	<0.00200	<0.00200	313	<50.0	<200	<200
SS2-5	5	5/5/2021	440	<0.00200	2.60	6.38	10.2	85.3	2,690	<0.00200	231,000	135	<200	231,135
SS2-7	7	5/5/2021	220	46.2	<0.00200	52.5	93.4	<0.00380	160	23.3	7,460	<50.0	<200	7,460
SS3-5	5	5/5/2021	1.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100	<0.00200	<0.00200	<0.200	<50.0	<200	<200
SS3@7-9	7-9	5/5/2021	820	4.48	2.72	247	7.34	0.19	4,230	6.46	127,000	290	<200	127,290
SS4-3	3	5/5/2021	0.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100	<0.00200	<0.00200	<0.200	<50.0	<200	<200

Notes:

GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
TPH - Total Petroleum Hyrdocarbons
PID - Photo Ionization Detector
RSSL - Residential Soil Screening Level
TMB - Trimethylbenzene
Bold- Above GWSSL

ft-bgs - feet below ground surface
mg/kg - milligrams per kilogram
ppm - parts per million
COGCC - Colorado Oil and Gas Conservation Commission
BTEXN - Benzene, Toluene, Ethylbenzene, Xylenes, Napthalene
GWSSL - Groundwater Soil Screening Level

TABLE 2
Analytical Results Summary Table: Remaining
Polycyclic Aromatic Hydrocarbon, Metals, General Chemistry
Kielian 2-2 Tank Battery. Mead, CO

Analyte	COGCC Table 915-1 GWSSL	SS3@7-9	BG1-1	Units
Sample Information				
Sample Date	NA	5/5/2021	5/17/2021	mm/dd/yyyy
Sample Depth	NA	7-9	1	ft-bgs
Field Screening	NA	820	0.3	ppm
Remaining Organic Compounds in Soil				
1,2,4-trimethylbenzene	0.0081	4230	-	mg/kg
1,3,5-trimethylbenzene	0.0087	6.46	-	mg/kg
acenaphthene	0.55	0.0383	-	mg/kg
anthracene	5.8	0.00285	-	mg/kg
benz(a)anthracene	0.011	<0.00221	-	mg/kg
benzo(b)fluoranthene	0.3	<0.00069	-	mg/kg
benzo(k)fluoranthene	2.9	<0.00243	-	mg/kg
benzo(a)pyrene	0.24	<0.000665	-	mg/kg
chrysene	9	0.00226	-	mg/kg
dibenzo(a,h)anthracene	0.096	<0.0014	-	mg/kg
fluoranthene	8.9	<0.00265	-	mg/kg
naphthalene	0.0038	0.19	-	mg/kg
pyrene	1.3	0.0032	-	mg/kg
Metals in Soil				
arsenic	0.29	2.07	2.42	mg/kg
barium	82	128	232	mg/kg
cadmium	0.38	0.23	-	mg/kg
chromium (VI)	0.00067	<1.22	-	mg/kg
copper	46	13.7	-	mg/kg
lead	14	8.17	-	mg/kg
nickel	26	13.6	-	mg/kg
selenium	0.26	0.216	-	mg/kg
silver	0.8	0.0715	-	mg/kg
zinc	370	51.3	-	mg/kg
General Chemistry				
pH	6 - 8.3	7.96	-	su
EC	4	1.48	-	mmhos/cm
Boron	2	1.6	-	mg/kg
SAR	6	1.20	-	unitless

Notes:

SS9-6: Sample name
 mg/kg - milligrams per kilogram
 COGCC - Colorado Oil and Gas Conservation CEC - Electrical Conductivity
 ft-bgs - feet below ground surface
 ppm - parts per million
 su - standard units
 mmhos/cm - micromhos per centimeter
 SAR - Soil Adsorption Ratio

Bold- Above GWSSL

TABLE 3
Groundwater Analytical Results Summary Table
Kielian 2-2 Tank Battery and Wellhead. Weld County, CO

Sample Information			Organics							Inorganics		
Sample ID	Depth	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride Ion	Sulfate Ion
Units -->	ft-bgs	mm/dd/yyyy	µg/l							mg/l	mg/l	mg/l
COGCC Table 915-1 Standard -->			5	560	700	1400	140	67	67	1.25xB	250	250
TPGW-1	~10	5/5/2021	<4.00	<4.00	52.4	<4.00	16.6	240	<4.00	1170	53.7	414
TPGW-2	~8	5/5/2021	73	<4.00	200	<4.00	64.3	1550	<1.00	1140	59.0	148

Notes:

ft-bgs - feet below ground surface

µg/l - micrograms per liter

COGCC - Colorado Oil and Gas Conservation Commission

TPGW - Test Pit Groundwater Sample

~ - denotes approximation

TMB - Trimethylbenzene

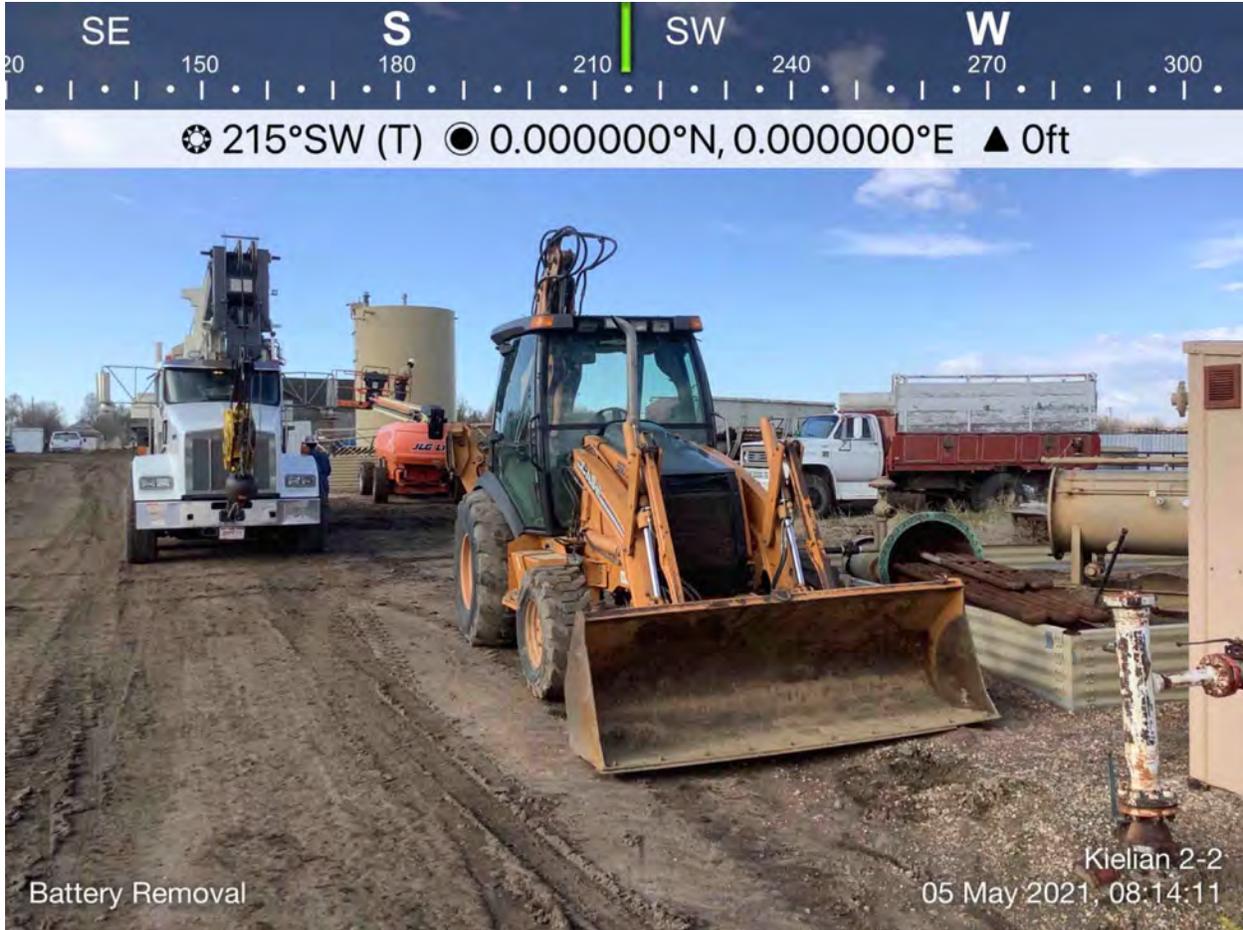
TDS - Total Dissolved Solids

1.25xB - 1.25 times background levels

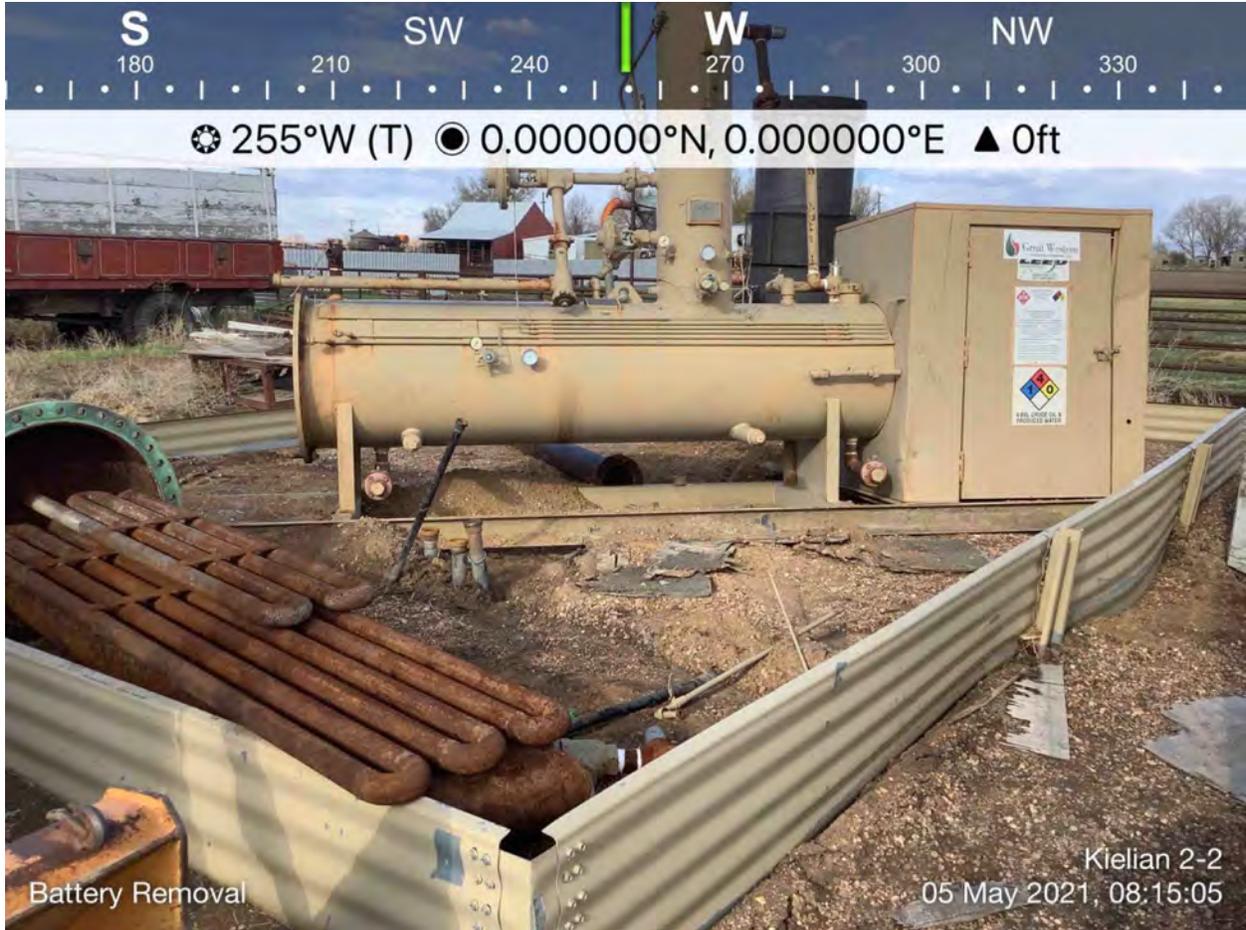
Bold- Above Table 915-1 Standard

**ATTACHMENT A
PHOTOGRAPHIC LOG**

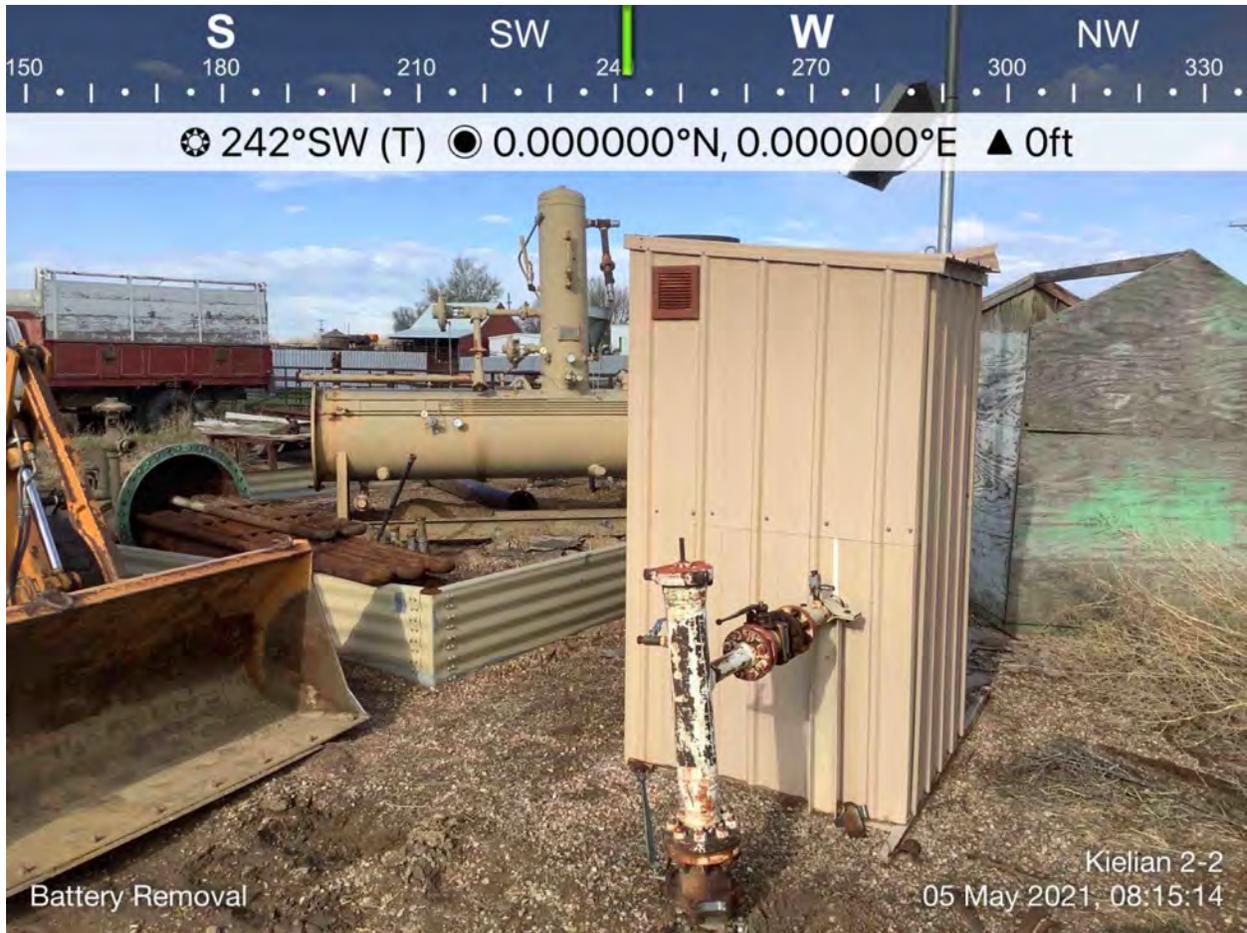
Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



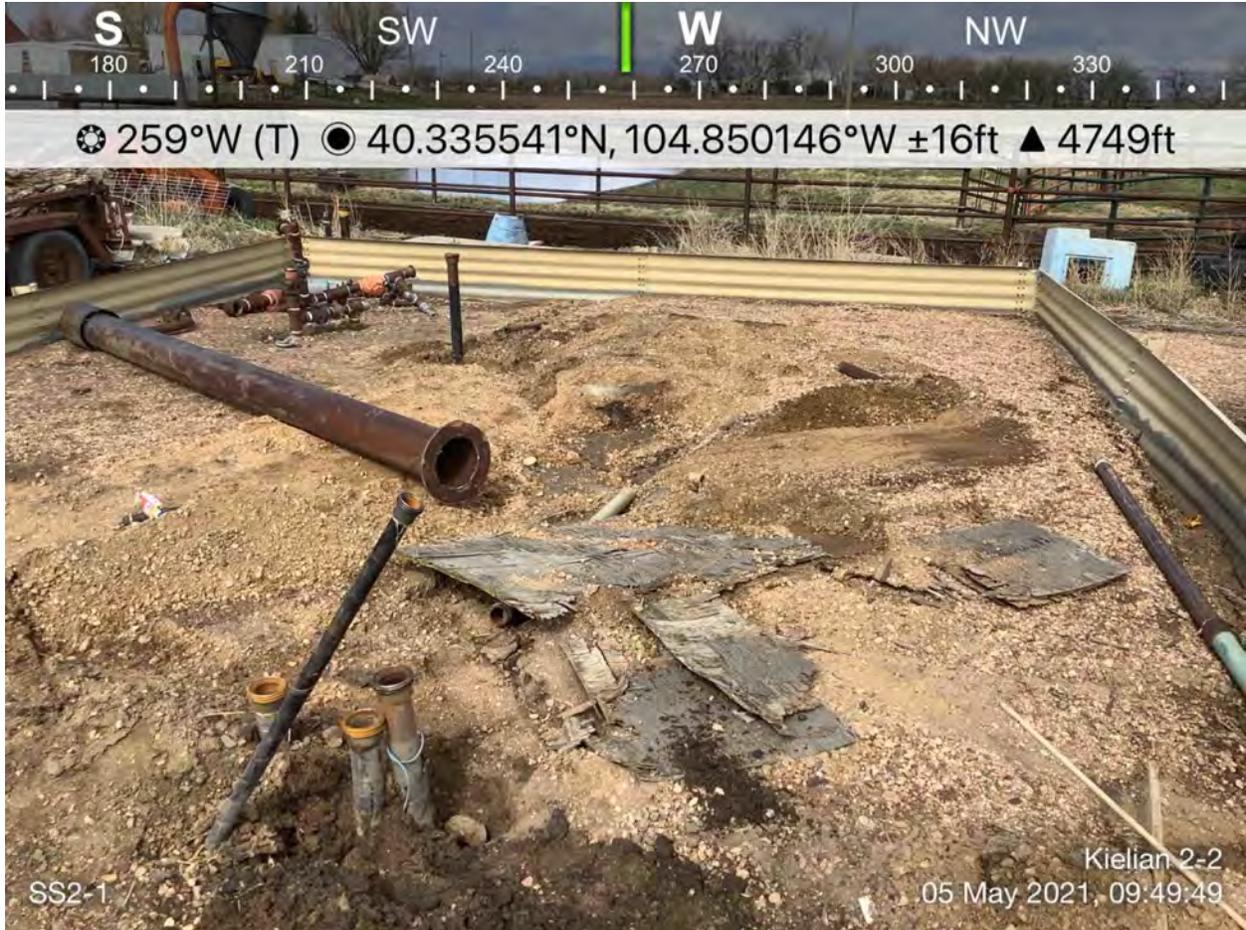
Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



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Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



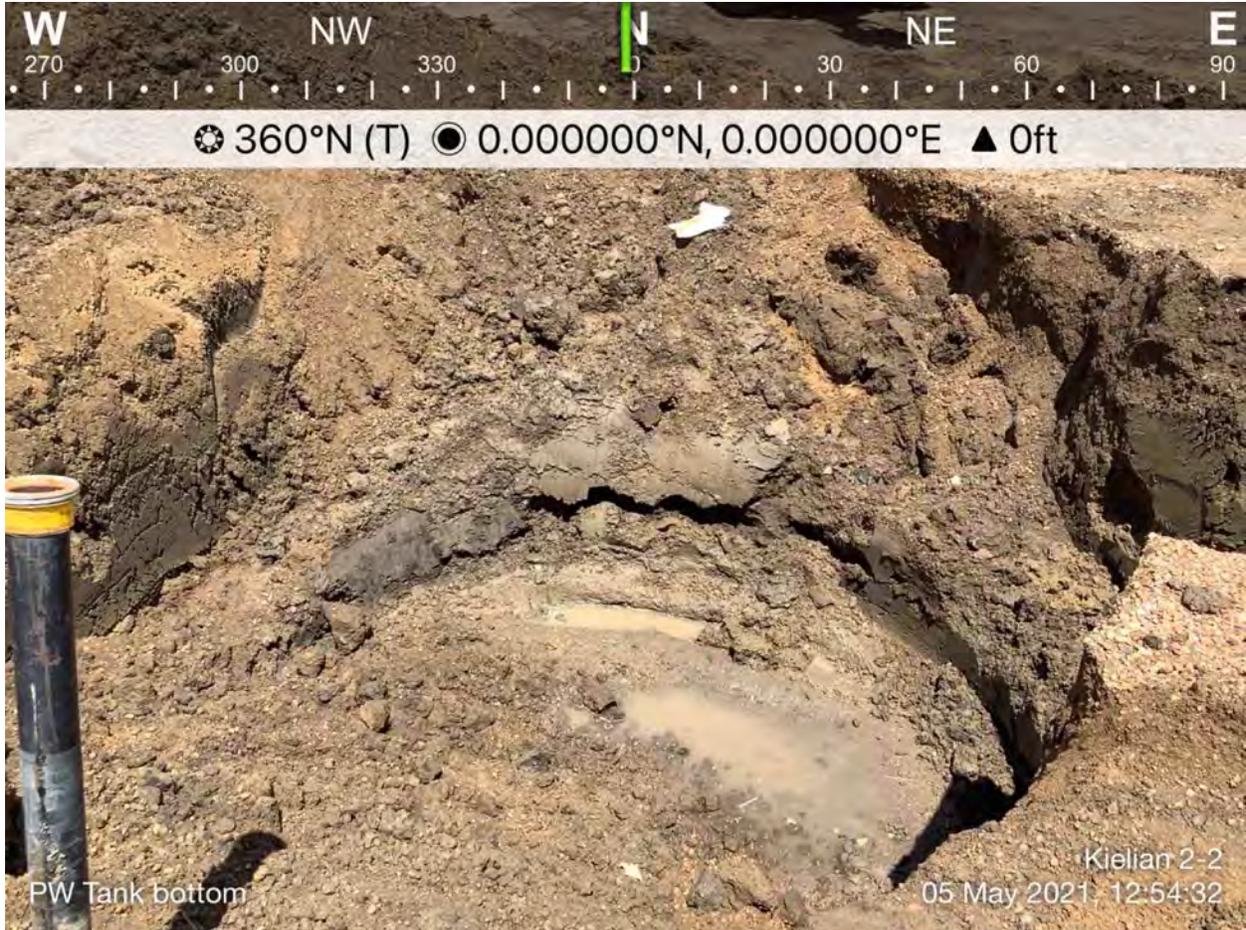
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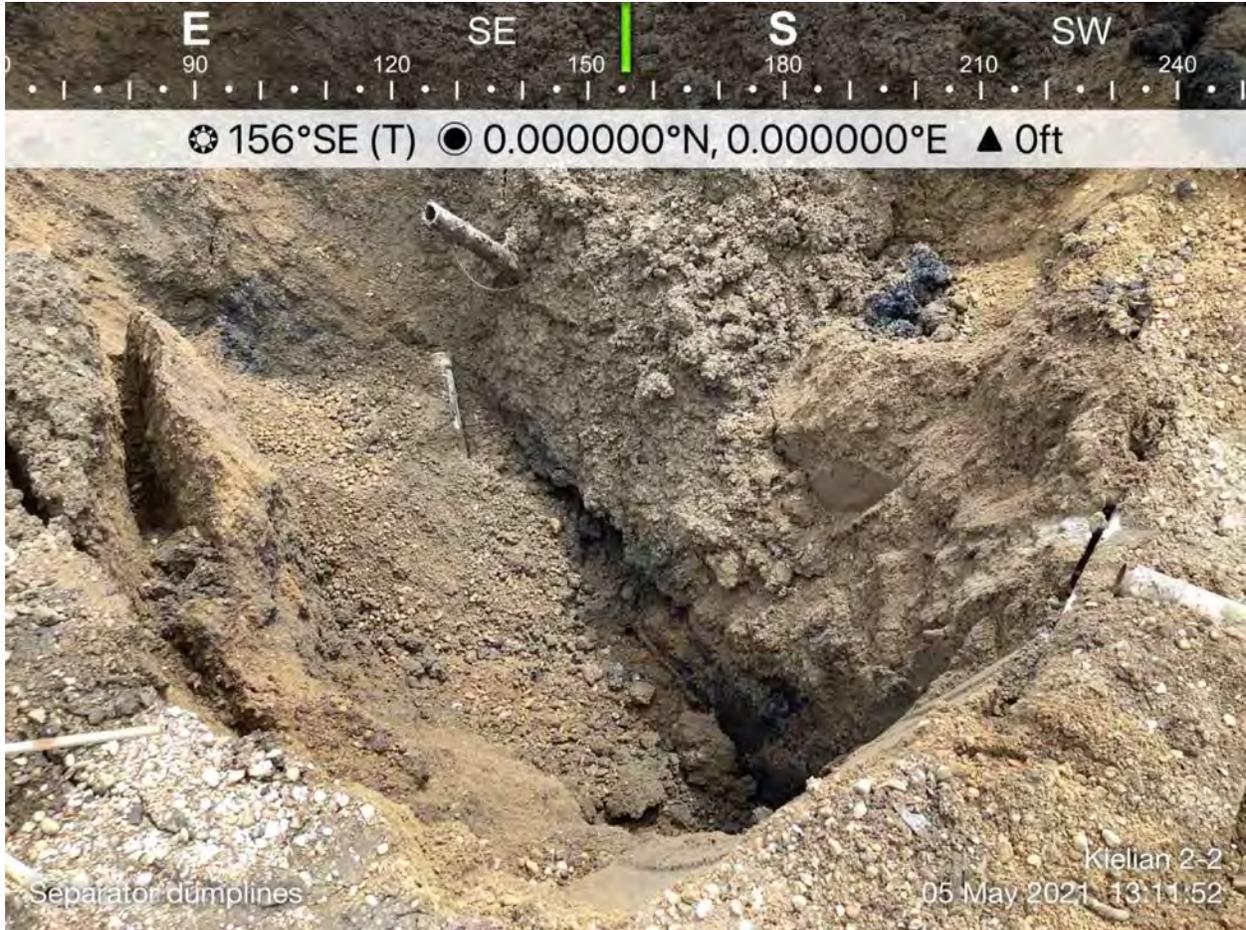
Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



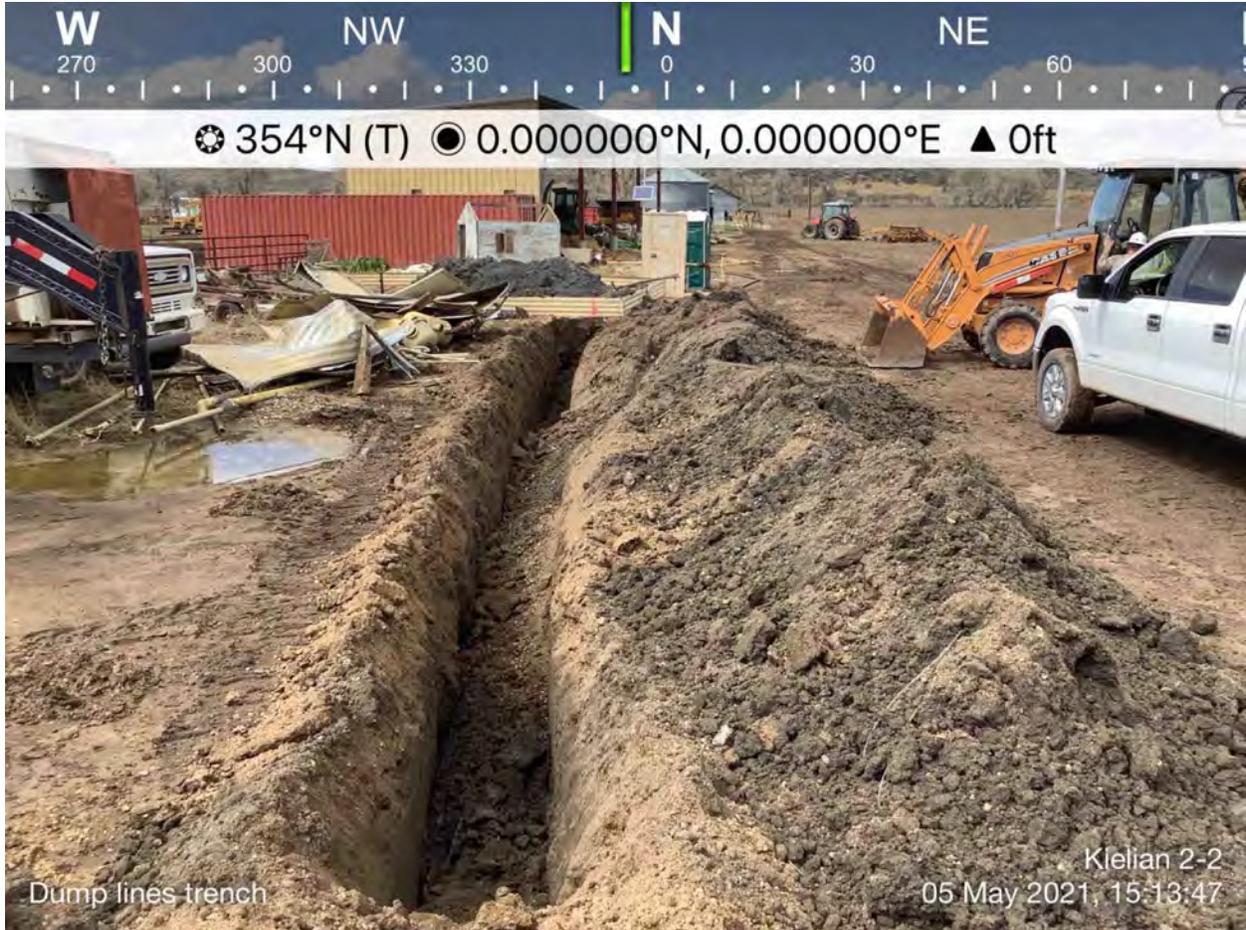
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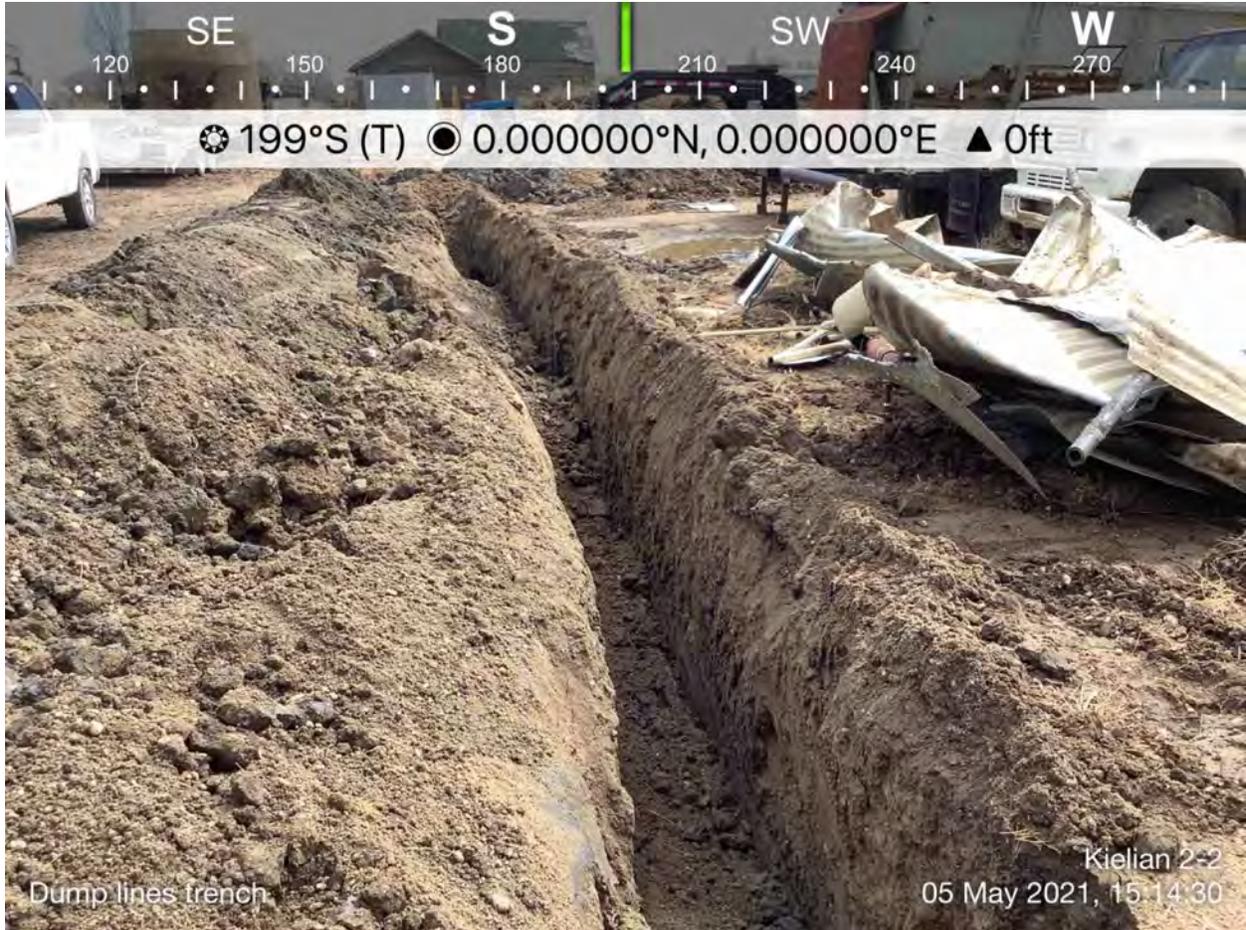
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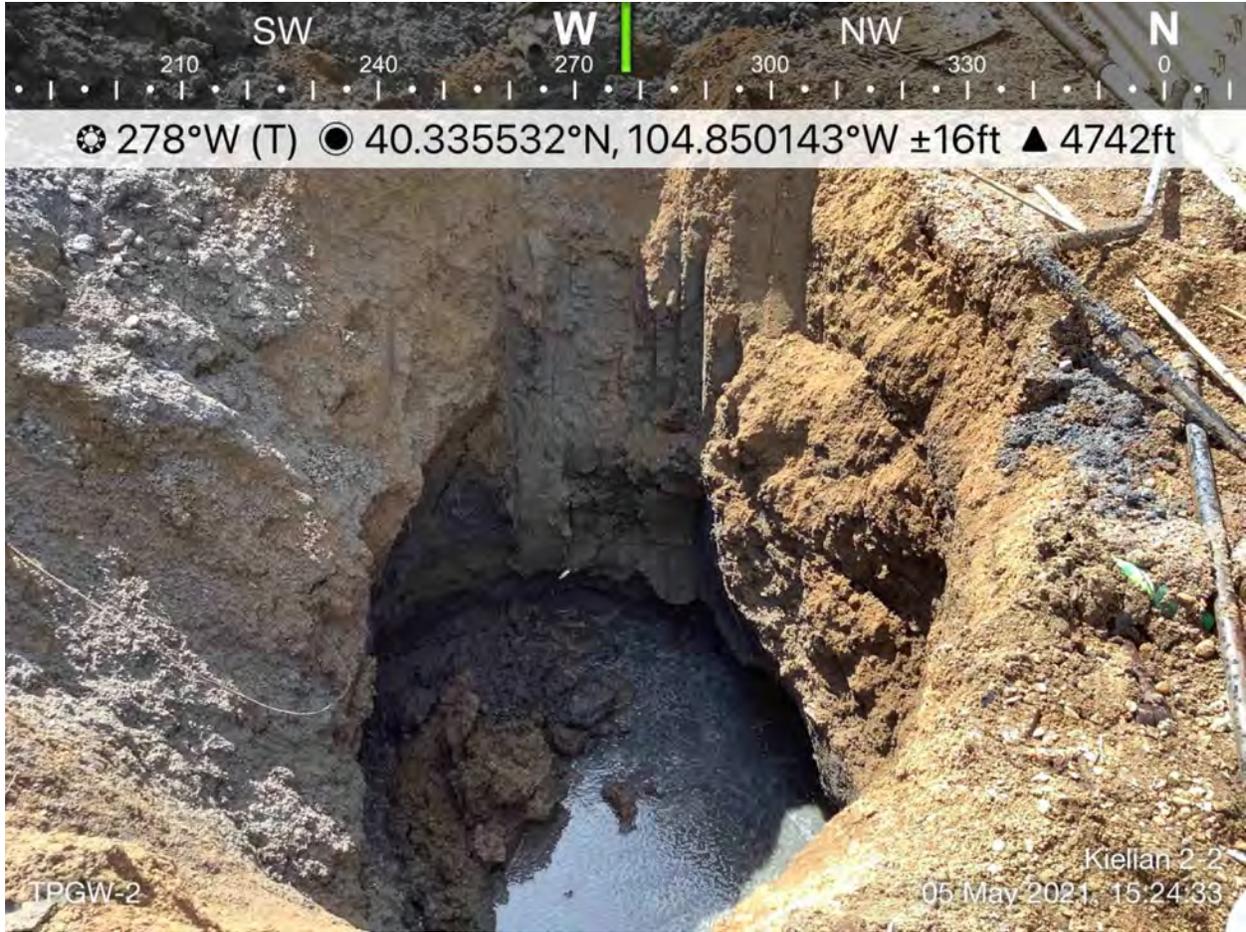
Kielian 2-2 Photographic Log



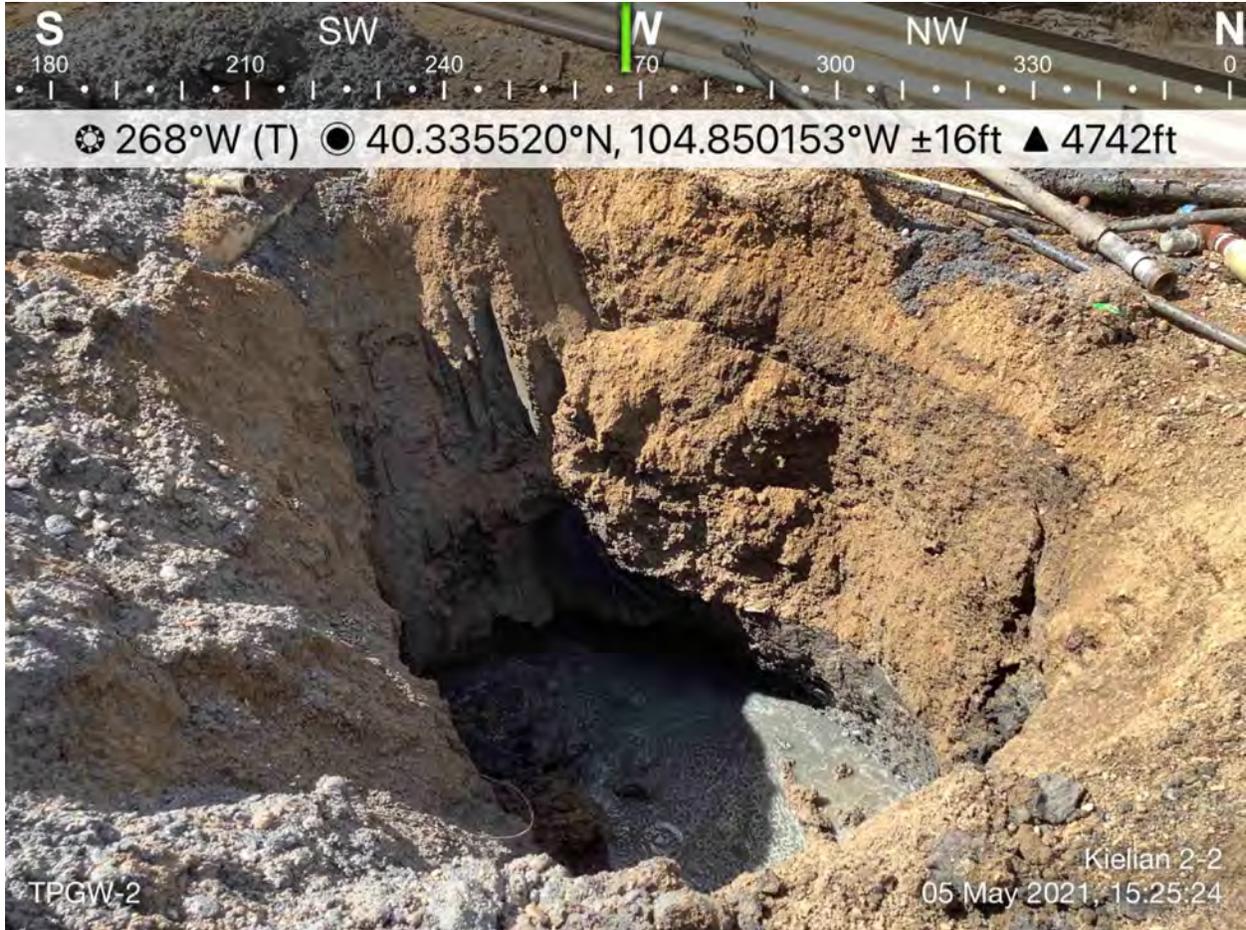
Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



Kielian 2-2 Photographic Log



**ATTACHMENT B
ANALYTICAL REPORTS**



May 12, 2021

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Kielian 2-2

Project Number - [none]

Attached are your analytical results for Kielian 2-2 received by Origins Laboratory, Inc. May 05, 2021. This project is associated with Origins project number Y105080-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1-1	Y105080-01	Soil	May 5, 2021 9:10	05/05/2021 17:25
SS2-1	Y105080-02	Soil	May 5, 2021 9:45	05/05/2021 17:25
SS2-5	Y105080-03	Soil	May 5, 2021 13:45	05/05/2021 17:25
SS2-7	Y105080-04	Soil	May 5, 2021 15:10	05/05/2021 17:25
SS3-5	Y105080-05	Soil	May 5, 2021 11:15	05/05/2021 17:25
SS3@7-9	Y105080-06	Soil	May 5, 2021 14:30	05/05/2021 17:25
SS4-3	Y105080-07	Soil	May 5, 2021 11:30	05/05/2021 17:25
TPGW-1	Y105080-08	Water	May 5, 2021 14:20	05/05/2021 17:25
TPGW-2	Y105080-09	Water	May 5, 2021 15:00	05/05/2021 17:25

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

www.originslaboratory.com

1105040

page | of |

ORIGINS
 LABORATORY, INC

Client: Entrada Consulting Group
 Project Manager: Ben Baugh
 Address: _____
 Project Name: Kielian 2-2
 Project Number: _____
 Telephone Number: 804-513-0707
 Email Address: bb@entradaconsulting.com
billto@entradaconsulting.com
 Bill to Jason Baughm at 410K

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	STEXN	TPH	TMBS	
SS1-1	5/5/21	910	1					X				X	X	X	72 hr turn
SS2-1		945	1					X				X	X	X	
SS2-5		1345	5					X				X	X	X	
SS2-7		1510	1					X				X	X	X	
SS3-5		1115	3					X				X	X	X	
SS307-9		1430	5					X				X			
SS4-3		1130	1					X				X	X	X	
TPGW-1		1420	3					X				X	X	X	Next day turn
TPGW-2		1500	3					X				X	X	X	Next day turn
Relinquished By: <u>Ben Baugh</u>	Date: 5/5/21	Time: 1705		Received By: <u>[Signature]</u>	Date: 5/5/21	Time: 1705		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>	Date: 5/5/21	Time: 1705		48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/>			
Relinquished By:	Date:	Time:		Received By:	Date:	Time:		Standard <input type="checkbox"/>							

Temp Received: 16.4 Date Results Needed

Origins Laboratory, Inc.

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y105080

Client: Entrada

Client Project ID: Kielian 2-2

Checklist Completed by: JB

Shipped Via: HD

Date/time completed: 5/5/21

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1, 16.4 °c _____ °c _____ °c _____ °c (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?				
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>Some Day</u>
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/5/21

Origins Laboratory, Inc.

[Signature]

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS1-1

5/5/2021 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y105080-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E0603	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	76.5 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1E0519	05/05/2021	05/06/2021	U
Naphthalene	ND		0.0100	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	93.2 %		70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	96.9 %		70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS2-1

5/5/2021 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105080-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E0603	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	77.7 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1E0519	05/05/2021	05/06/2021	U
Naphthalene	ND		0.0100	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.313		0.200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS2-5

5/5/2021 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y105080-03 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	135		50.0	mg/kg	1	B1E0603	05/06/2021	05/06/2021	
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	85.3 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	2.69		0.0500	mg/kg	25	B1E0519	05/05/2021	05/07/2021	
Naphthalene	0.0853		0.0100	"	1	"	"	05/07/2021	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00638		0.00200	"	"	"	"	"	
Toluene	0.00260		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	231		5.00	"	25	"	"	"	
Xylenes, total	0.0102		0.00200	"	1	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	462 %		70-130			"	"	"	S-02

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS2-7

5/5/2021 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y105080-04 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E0603	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	82.3 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.160		0.00200	mg/kg	1	B1E0519	05/05/2021	05/06/2021	
Naphthalene	ND		0.00380	"	"	"	"	"	U
1,3,5-Trimethylbenzene	0.0233		0.00200	"	"	"	"	"	
Benzene	0.0462		0.00200	"	"	"	"	"	
Ethylbenzene	0.0525		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	7.46		0.200	"	"	"	"	"	
Xylenes, total	0.0934		0.00200	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.0 %		70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	93.1 %		70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	107 %		70-130			"	"	"	

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS3-5

5/5/2021 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105080-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E0603	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	87.4 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1E0519	05/05/2021	05/06/2021	U
Naphthalene	ND		0.0100	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	90.7 %		70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	95.9 %		70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	92.2 %		70-130			"	"	"	

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS3@7-9
5/5/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y105080-06 (Soil)

Boron (Sorbitol)

Boron	1.6			mg/L	1	[none]	05/07/2021	05/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	290		50.0	mg/kg	1	B1E0603	05/06/2021	05/06/2021	
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.5 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	4.23		0.0500	mg/kg	25	B1E0519	05/05/2021	05/06/2021	
1,3,5-Trimethylbenzene	0.00646		0.00200	"	1	"	"	05/07/2021	
Benzene	0.00448		0.00200	"	"	"	"	"	
Ethylbenzene	0.247		0.00200	"	"	"	"	"	
Toluene	0.00272		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	127		5.00	"	25	"	"	05/06/2021	
Xylenes, total	0.00734		0.00200	"	1	"	"	05/07/2021	

Surrogate: 1,2-Dichloroethane-d4	89.5 %		70-130			"	"	05/06/2021	
Surrogate: Toluene-d8	93.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS3@7-9
5/5/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105080-06 (Soil)

Metals by Saturated Paste

Calcium	0.68			meq/L	1	[CALC]	05/07/2021	05/10/2021	
Magnesium	6.44			"	"	"	"	"	
Sodium	2.84			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.516	0.0024	0.00335	mg/Kg	5	L551924	05/10/2021	05/10/2021	
2-Methylnaphthalene	0.844	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	0.0383	0.00216	0.00335	"	"	"	"	"	
Anthracene	0.00285	0.00213	0.00335	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	0.00226	0.00128	0.00335	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"	
Fluorene	0.115	0.00251	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"	
Naphthalene	0.19	0.00234	0.00335	"	"	"	"	"	
Pyrene	0.0032	0.00194	0.00335	"	"	"	"	"	J
Surrogate: 2-Fluorobiphenyl	54.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.4 %		33-122			"	"	"	

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS3@7-9
5/5/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y105080-06 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	63.7 %		29-110			L5519 24	05/10/2021	05/10/2021	
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pH in Soil by EPA 9045D

pH	7.96			pH Units	1	B1E0713	05/05/2021	05/05/2021	
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SAR by 20B Saturated Paste

SAR	1.20			SAR	1	B1E0718	05/07/2021	05/10/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.48		0.00500	mmhos/cm	1	B1E0719	05/07/2021	05/07/2021	
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Total Metals by 6020B

Arsenic	2.07	0.0855	0.25	mg/Kg	5	L551812	05/08/2021	05/10/2021	
Barium	128	0.042	0.25	"	"	"	"	"	
Cadmium	0.23	0.0259	0.25	"	"	"	"	"	J
Copper	13.7	0.0806	0.25	"	"	"	"	"	
Lead	8.17	0.031	0.25	"	"	"	"	"	
Nickel	13.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.216	0.103	0.25	"	"	"	"	"	J
Silver	0.0715	0.0067	0.25	"	"	"	"	"	J
Zinc	51.3	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2

SS3@7-9

5/5/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y105080-06 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L552019	05/05/2021	05/10/2021	
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Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

SS4-3

5/5/2021 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105080-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E0603	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	78.1 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1E0519	05/05/2021	05/06/2021	U
Naphthalene	ND		0.0100	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	92.8 %		70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	95.9 %		70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	92.4 %		70-130			"	"	"	

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

TPGW-1
5/5/2021 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105080-08 (Water)

Anions by IC 300.0

Chloride	53.7		31.2	mg/L	125	B1E0514	05/05/2021	05/06/2021	
Sulfate	414		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	240		4.00	ug/L	4	B1E0503	05/05/2021	05/05/2021	
1,3,5-Trimethylbenzene	ND		4.00	"	"	"	"	"	U
Benzene	ND		4.00	"	"	"	"	"	U
Ethylbenzene	52.4		4.00	"	"	"	"	"	
Naphthalene	16.6		16.0	"	"	"	"	"	
Toluene	ND		4.00	"	"	"	"	"	U
Xylenes, total	ND		4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1170		5.00	mg/L	1	B1E0509	05/05/2021	05/06/2021	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

TPGW-2
5/5/2021 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105080-09 (Water)

Anions by IC 300.0

Chloride	59.0		31.2	mg/L	125	B1E0514	05/05/2021	05/06/2021	
Sulfate	148		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	1550		50.0	ug/L	50	B1E0503	05/05/2021	05/06/2021	
1,3,5-Trimethylbenzene	ND		4.00	"	4	"	"	05/06/2021	U
Benzene	73.0		4.00	"	"	"	"	"	
Ethylbenzene	200		4.00	"	"	"	"	"	
Naphthalene	64.3		16.0	"	"	"	"	"	
Toluene	ND		4.00	"	"	"	"	"	U
Xylenes, total	ND		4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.1 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1140		5.00	mg/L	1	B1E0509	05/05/2021	05/06/2021	
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Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0503 - EPA 5030B (Water)

Blank (B1E0503-BLK1)

Prepared: 05/05/2021 Analyzed: 05/05/2021

1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		70-130			
Surrogate: Toluene-d8	58		"	62.5	92.5		70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5	89.3		70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0503 - EPA 5030B (Water)

LCS (B1E0503-BS1)

Prepared: 05/05/2021 Analyzed: 05/05/2021

1,2,4-Trimethylbenzene	50.2	1.00	ug/L	50.0		100	70-130			
1,3,5-Trimethylbenzene	50.3	1.00	"	50.0		101	70-130			
Benzene	50.9	1.00	"	50.0		102	70-130			
Ethylbenzene	58.2	1.00	"	50.0		116	70-130			
m,p-Xylene	118	2.00	"	100		118	70-130			
Naphthalene	46.3	4.00	"	50.0		92.6	70-130			
o-Xylene	58.9	1.00	"	50.0		118	70-130			
Toluene	52.6	1.00	"	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		90.7	70-130			

Origins Laboratory, Inc.



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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0503 - EPA 5030B (Water)

Matrix Spike (B1E0503-MS1)	Source: Y105053-01			Prepared: 05/05/2021 Analyzed: 05/05/2021						
1,2,4-Trimethylbenzene	46.9	1.00	ug/L	50.0	ND	93.8	70-130			
1,3,5-Trimethylbenzene	46.2	1.00	"	50.0	ND	92.4	70-130			
Benzene	45.3	1.00	"	50.0	ND	90.7	70-130			
Ethylbenzene	52.5	1.00	"	50.0	ND	105	70-130			
m,p-Xylene	108	2.00	"	100	ND	108	70-130			
Naphthalene	55.7	4.00	"	50.0	ND	111	70-130			
o-Xylene	57.1	1.00	"	50.0	ND	114	70-130			
Toluene	48.5	1.00	"	50.0	ND	97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		89.1	70-130			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0503 - EPA 5030B (Water)

Matrix Spike Dup (B1E0503-MSD1)	Source: Y105053-01			Prepared: 05/05/2021 Analyzed: 05/05/2021						
1,2,4-Trimethylbenzene	47.3	1.00	ug/L	50.0	ND	94.5	70-130	0.743	20	
1,3,5-Trimethylbenzene	47.6	1.00	"	50.0	ND	95.3	70-130	3.13	20	
Benzene	45.9	1.00	"	50.0	ND	91.7	70-130	1.18	20	
Ethylbenzene	53.8	1.00	"	50.0	ND	108	70-130	2.52	20	
m,p-Xylene	108	2.00	"	100	ND	108	70-130	0.777	20	
Naphthalene	53.9	4.00	"	50.0	ND	108	70-130	3.39	20	
o-Xylene	56.7	1.00	"	50.0	ND	113	70-130	0.667	20	
Toluene	50.6	1.00	"	50.0	ND	101	70-130	4.30	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		90.1	70-130			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0519 - EPA 5030 (soil)

Blank (B1E0519-BLK1)

Prepared: 05/05/2021 Analyzed: 05/06/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	58		ug/L	62.5		93.0	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.2	70-130			

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 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0519 - EPA 5030 (soil)

LCS (B1E0519-BS1)

Prepared: 05/05/2021 Analyzed: 05/06/2021

1,2,4-Trimethylbenzene	0.0544	0.00200	mg/kg	0.0500		109	70-130			
Naphthalene	0.0560	0.0100	"	0.0500		112	70-130			
1,3,5-Trimethylbenzene	0.0520	0.00200	"	0.0500		104	70-130			
Benzene	0.0454	0.00200	"	0.0500		90.7	70-130			
Ethylbenzene	0.0483	0.00200	"	0.0500		96.7	70-130			
m,p-Xylene	0.0975	0.00400	"	0.100		97.5	70-130			
o-Xylene	0.0508	0.00200	"	0.0500		102	70-130			
Toluene	0.0472	0.00200	"	0.0500		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		ug/L	62.5		90.1	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.0	70-130			

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Entrada Consulting Group
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 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0519 - EPA 5030 (soil)

Matrix Spike (B1E0519-MS1)	Source: Y105080-01			Prepared: 05/05/2021 Analyzed: 05/06/2021						
1,2,4-Trimethylbenzene	0.0476	0.00200	mg/kg	0.0500	ND	95.2	70-130			
Naphthalene	0.0520	0.0100	"	0.0500	0.000560	103	70-130			
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500	ND	92.8	70-130			
Benzene	0.0425	0.00200	"	0.0500	ND	84.9	70-130			
Ethylbenzene	0.0433	0.00200	"	0.0500	ND	86.7	70-130			
m,p-Xylene	0.0877	0.00400	"	0.100	ND	87.7	70-130			
o-Xylene	0.0458	0.00200	"	0.0500	ND	91.5	70-130			
Toluene	0.0424	0.00200	"	0.0500	ND	84.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		ug/L	62.5		90.4	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	70-130			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0519 - EPA 5030 (soil)

Matrix Spike Dup (B1E0519-MSD1)	Source: Y105080-01			Prepared: 05/05/2021 Analyzed: 05/06/2021						
1,2,4-Trimethylbenzene	0.0500	0.00200	mg/kg	0.0500	ND	100	70-130	4.96	20	
Naphthalene	0.0558	0.0100	"	0.0500	0.000560	110	70-130	6.94	20	
1,3,5-Trimethylbenzene	0.0487	0.00200	"	0.0500	ND	97.4	70-130	4.79	20	
Benzene	0.0461	0.00200	"	0.0500	ND	92.2	70-130	8.26	20	
Ethylbenzene	0.0459	0.00200	"	0.0500	ND	91.7	70-130	5.65	20	
m,p-Xylene	0.0922	0.00400	"	0.100	ND	92.2	70-130	5.05	20	
o-Xylene	0.0483	0.00200	"	0.0500	ND	96.7	70-130	5.48	20	
Toluene	0.0454	0.00200	"	0.0500	ND	90.8	70-130	6.83	20	
Surrogate: 1,2-Dichloroethane-d4	57		ug/L	62.5		91.7	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.9	70-130			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1E0603 - EPA 3550B										
Blank (B1E0603-BLK1)										
					Prepared: 05/06/2021 Analyzed: 05/06/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.3	50-150			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0603 - EPA 3550B

LCS (B1E0603-BS1)

Prepared: 05/06/2021 Analyzed: 05/06/2021

Diesel (C10-C28)	875	50.0	mg/kg	1000		87.5	70-130			
Residual Range Organics (C28-C40)	856	200	"	1000		85.6	70-130			
Surrogate: o-Terphenyl	42		"	50.0		84.1	50-150			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0603 - EPA 3550B

Matrix Spike (B1E0603-MS1)	Source: Y105080-01			Prepared: 05/06/2021 Analyzed: 05/06/2021						
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130			
Residual Range Organics (C28-C40)	876	200	"	1000	48.6	82.8	70-130			
<i>Surrogate: o-Terphenyl</i>	41		"	50.0		82.8	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1E0603 - EPA 3550B										
Matrix Spike Dup (B1E0603-MSD1)					Source: Y105080-01					Prepared: 05/06/2021 Analyzed: 05/06/2021
Diesel (C10-C28)	907	50.0	mg/kg	1000	ND	90.7	70-130	3.24	35	
Residual Range Organics (C28-C40)	934	200	"	1000	48.6	88.6	70-130	6.42	35	
Surrogate: o-Terphenyl	43		"	50.0		86.1	50-150			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0509 - NO PREP

Blank (B1E0509-BLK1)

Prepared: 05/05/2021 Analyzed: 05/06/2021

Total Dissolved Solids ND 5.00 mg/L

LCS (B1E0509-BS1)

Prepared: 05/05/2021 Analyzed: 05/06/2021

Total Dissolved Solids 740 5.00 mg/L 716 103 85-115

Duplicate (B1E0509-DUP1)

Source: Y105052-01

Prepared: 05/05/2021 Analyzed: 05/06/2021

Total Dissolved Solids 5820 5.00 mg/L 6100 4.70 20

Batch B1E0514 - Filter .45um non acidified

Blank (B1E0514-BLK1)

Prepared: 05/05/2021 Analyzed: 05/06/2021

Chloride ND 0.250 mg/L

Sulfate ND 0.250 "

LCS (B1E0514-BS1)

Prepared: 05/05/2021 Analyzed: 05/06/2021

Chloride 3.86 0.250 mg/L 4.00 96.5 90-110

Sulfate 3.76 0.250 " 4.00 94.0 90-110

Duplicate (B1E0514-DUP1)

Source: Y105053-02

Prepared: 05/05/2021 Analyzed: 05/06/2021

Chloride 414 31.2 mg/L 457 9.98 20

Sulfate 8280 31.2 " 4750 54.2 20

Matrix Spike (B1E0514-MS1)

Source: Y105053-02

Prepared: 05/05/2021 Analyzed: 05/06/2021

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0514 - Filter .45um non acidified

Matrix Spike (B1E0514-MS1)		Source: Y105053-02			Prepared: 05/05/2021 Analyzed: 05/06/2021					
Chloride	836		mg/L	500	457	75.8	80-120			QM-07
Sulfate	5360		"	500	4750	122	80-120			QM-07
Matrix Spike Dup (B1E0514-MSD1)		Source: Y105053-02			Prepared: 05/05/2021 Analyzed: 05/06/2021					
Chloride	822		mg/L	500	457	73.0	80-120	1.69	20	QM-07
Sulfate	5250		"	500	4750	100	80-120	2.11	20	

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1E0713 - NO PREP										
Duplicate (B1E0713-DUP1)		Source: Y105069-01			Prepared: 05/07/2021 Analyzed: 05/07/2021					
pH	7.53		pH Units		7.75			2.88	25	
Batch B1E0719 - NO PREP										
Blank (B1E0719-BLK1)					Prepared: 05/07/2021 Analyzed: 05/07/2021					
Specific Conductance (EC)	0.00220	0.00500	mmhos/cm							
Duplicate (B1E0719-DUP1)		Source: Y105069-01			Prepared: 05/07/2021 Analyzed: 05/07/2021					
Specific Conductance (EC)	0.799	0.00500	mmhos/cm		0.761			4.90	25	

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L551924 - 3550B

MSD (L 94877-MSD-L551924)		Source: 94877			Prepared: 05/10/2021 Analyzed: 05/10/2021					
Benzo(b)fluoranthene	0.097	0.000138	mg/Kg	0.166	0.000317	58.4	30-130	15.2	30	
1-Methylnaphthalene	0.0879	0.00048	"	0.166	94877	52.9	30-130	1.5	30	
2-Methylnaphthalene	0.0882	0.000542	"	0.166	94877	53.1	30-130	2.5	30	
Acenaphthene	0.0866	0.000431	"	0.166	94877	52.1	30-130	2.1	30	
Anthracene	0.0935	0.000426	"	0.166	94877	56.3	30-130	4.6	30	
Naphthalene	0.0827	0.000467	"	0.166	94877	49.8	30-130	3.7	30	
Benzo(a)pyrene	0.114	0.000133	"	0.166	0.000199	68.6	30-130	3.4	30	
Pyrene	0.0974	0.000387	"	0.166	94877	58.6	30-130	5.5	30	
Benzo(k)fluoranthene	0.0995	0.000486	"	0.166	94877	59.9	30-130	7.2	30	
Chrysene	0.0986	0.000256	"	0.166	0.000511	59.3	30-130	2.4	30	
Dibenz(a,h)anthracene	0.0952	0.000279	"	0.166	94877	57.3	30-130	16.2	30	
Fluoranthene	0.1	0.000529	"	0.166	94877	60.2	30-130	4.8	30	
Fluorene	0.0934	0.000501	"	0.166	94877	56.2	30-130	2.8	30	
Indeno(1,2,3-cd)pyrene	0.0961	0.000344	"	0.166	94877	57.8	30-130	15.2	30	
Benzo(a)anthracene	0.104	0.000441	"	0.166	94877	62.6	30-130	6.5	30	
Surrogate: Nitrobenzene-d5	48.9		"	0.331	167	48.9	29-110			
Surrogate: 2-Fluorobiphenyl	48.3		"	0.331	162	48.3	33-115			
Surrogate: 4-Terphenyl-d14	56.4		"	0.331	200	56.4	33-122			

MS (L 94877-MS-L551924)		Source: 94877			Prepared: 05/10/2021 Analyzed: 05/10/2021					
Benzo(b)fluoranthene	0.113	0.000138	mg/Kg	0.167	0.000317	67.6	30-130			
Pyrene	0.103	0.000387	"	0.167	94877	61.6	30-130			
Naphthalene	0.0859	0.000467	"	0.167	94877	51.4	30-130			
Indeno(1,2,3-cd)pyrene	0.112	0.000344	"	0.167	94877	67	30-130			
Fluorene	0.0961	0.000501	"	0.167	94877	57.5	30-130			
Fluoranthene	0.105	0.000529	"	0.167	94877	62.8	30-130			
Dibenz(a,h)anthracene	0.112	0.000279	"	0.167	94877	67	30-130			

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L551924 - 3550B

MS (L 94877-MS-L551924)	Source: 94877			Prepared: 05/10/2021 Analyzed: 05/10/2021						
1-Methylnaphthalene	0.0893	0.00048	mg/Kg	0.167	94877	53.4	30-130			
Benzo(k)fluoranthene	0.107	0.000486	"	0.167	94877	64	30-130			
Benzo(a)pyrene	0.118	0.000133	"	0.167	0.000199	70.6	30-130			
Benzo(a)anthracene	0.111	0.000441	"	0.167	94877	66.4	30-130			
Anthracene	0.098	0.000426	"	0.167	94877	58.6	30-130			
Acenaphthene	0.0885	0.000431	"	0.167	94877	52.9	30-130			
2-Methylnaphthalene	0.0905	0.000542	"	0.167	94877	54.1	30-130			
Chrysene	0.101	0.000256	"	0.167	0.000511	60.4	30-130			
Surrogate: 2-Fluorobiphenyl	48.6		"	0.333	162	48.6	33-115			
Surrogate: 4-Terphenyl-d14	58.5		"	0.333	200	58.5	33-122			
Surrogate: Nitrobenzene-d5	50.7		"	0.333	167	50.7	29-110			

LCS (LCS-L551924)	Prepared: 05/10/2021 Analyzed: 05/10/2021									
Dibenz(a,h)anthracene	0.0979	0.000279	mg/Kg	0.167		58.6	30-130			
2-Methylnaphthalene	0.0877	0.000542	"	0.167		52.5	30-130			
Acenaphthene	0.0857	0.000431	"	0.167		51.3	30-130			
Anthracene	0.0922	0.000426	"	0.167		55.2	30-130			
Benzo(a)anthracene	0.102	0.000441	"	0.167		61	30-130			
1-Methylnaphthalene	0.0877	0.00048	"	0.167		52.5	30-130			
Chrysene	0.0973	0.000256	"	0.167		58.2	30-130			
Benzo(a)pyrene	0.113	0.000133	"	0.167		67.6	30-130			
Fluoranthene	0.0996	0.000529	"	0.167		59.6	30-130			
Fluorene	0.0923	0.000501	"	0.167		55.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0978	0.000344	"	0.167		58.5	30-130			
Naphthalene	0.0844	0.000467	"	0.167		50.5	30-130			
Pyrene	0.097	0.000387	"	0.167		58	30-130			
Benzo(b)fluoranthene	0.101	0.000138	"	0.167		60.4	30-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L551924 - 3550B

LCS (LCS-L551924)

Prepared: 05/10/2021 Analyzed: 05/10/2021

Benzo(k)fluoranthene	0.101	0.000486	mg/Kg	0.167		60.4	30-130			
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333		50.7	33-115			
Surrogate: 4-Terphenyl-d14	59.1		"	0.333		59.1	33-122			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			

LRB (LRB-L551924)

Prepared: 05/10/2021 Analyzed: 05/10/2021

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	63.3		"	0.333		63.3	33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333		53.7	33-115			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L551812 - 3050B

MSD (L 94064-MSD-L551812)		Source: 94064			Prepared: 05/08/2021 Analyzed: 05/10/2021					
Copper	13.3	0.0806	mg/Kg	2.46	8.76	184	75-125	9.4	80	I*
Zinc	65.9	0.534	"	24.6	40.9	102	75-125	9.6	80	
Silver	0.496	0.0067	"	0.493	0.0325	101	75-125	2.1	80	
Selenium	3.43	0.103	"	4.93	0.239	70	75-125	0.8	80	*
Cadmium	0.812	0.0259	"	0.493	0.131	165	75-125	30.5	80	*
Lead	18.2	0.031	"	2.46	13.6	187	75-125	23.3	80	*
Arsenic	4.01	0.0855	"	2.46	2.22	73	75-125	10.6	80	*
Barium	90.5	0.042	"	4.93	83.4	144	75-125	5.6	80	*
Nickel	10.8	0.0633	"	2.46	8.57	91	75-125	8	80	

MS (L 94064-MS-L551812)		Source: 94064			Prepared: 05/08/2021 Analyzed: 05/10/2021					
Silver	0.507	0.0067	mg/Kg	0.491	0.0325	103	75-125			
Copper	12.1	0.0806	"	2.46	8.76	136	75-125			I*
Arsenic	4.46	0.0855	"	2.46	2.22	91	75-125			
Barium	95.8	0.042	"	4.91	83.4	252	75-125			*
Cadmium	0.597	0.0259	"	0.491	0.131	122	75-125			
Zinc	72.6	0.534	"	24.6	40.9	129	75-125			*
Lead	14.4	0.031	"	2.46	13.6	33	75-125			*
Nickel	11.7	0.0633	"	2.46	8.57	127	75-125			*
Selenium	3.4	0.103	"	4.91	0.239	69	75-125			*

LCS (LCS-L551812)					Prepared: 05/08/2021 Analyzed: 05/11/2021					
Arsenic	2.48	0.0855	mg/Kg	2.5		99	80-120			
Copper	2.23	0.0806	"	2.5		89	80-120			
Lead	2.41	0.031	"	2.5		96	80-120			
Nickel	2.27	0.0633	"	2.5		91	80-120			
Selenium	4.71	0.103	"	5		94	80-120			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L551812 - 3050B

LCS (LCS-L551812)

Prepared: 05/08/2021 Analyzed: 05/10/2021

Silver	0.499	0.0067	mg/Kg	0.5		100	80-120			
Zinc	23	0.534	"	25		92	80-120			
Barium	4.91	0.042	"	5		98	80-120			
Cadmium	0.468	0.0259	"	0.5		94	80-120			

LRB (LRB-L551812)

Prepared: 05/08/2021 Analyzed: 05/10/2021

Lead	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

**Total Metals by 7196A - Quality Control
 Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L552019 -										
DUP (L 94868-DUP)		Source: 94868			Prepared: Analyzed: 05/10/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		94868		-	0	20	
MS (L 94868-MS)		Source: 94868			Prepared: Analyzed: 05/10/2021					
Chromium, Hexavalent	7.1	0.244	mg/Kg	7.92	94868	90	75-125			
LCS (LCS)		Prepared: Analyzed: 05/10/2021								
Chromium, Hexavalent	7.49	0.244	mg/Kg	8		94	75-125			
LRB (LRB)		Prepared: Analyzed: 05/10/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: [none]
Project: Kielian 2-2

Notes and Definitions

- U Sample is Non-Detect.

 - S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

 - J Estimated Value. Analyte below reported quantitation limit.

 - I* [Undefined]

 - * QC Failure

 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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.



May 20, 2021

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Kielian 2-2

Project Number - [none]

Attached are your analytical results for Kielian 2-2 received by Origins Laboratory, Inc. May 17, 2021. This project is associated with Origins project number Y105306-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: [none]
Project: Kielian 2-2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG1-1	Y105306-01	Soil	May 17, 2021 11:45	05/17/2021 12:45

Origins Laboratory, Inc.



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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y105306 Client: Entrada
 Client Project ID: Kielian 2-2
 Checklist Completed by: KDK Shipped Via: HD
 Date/time completed: 05-17-12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 18.8 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Same Day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: Jm (Project Manager) Date/Time Reviewed: 5-18-12

Origins Laboratory, Inc.


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.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2

BG1-1

5/17/2021 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y105306-01 (Soil)

Total Metals by 6020B

Arsenic	2.42	0.25	mg/Kg	5	L553796	05/18/2021	05/19/2021	
Barium	232	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Ben Baugh
 Project Number: [none]
 Project: Kielian 2-2

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L553796 - 3050B										
MSD (L 96408-MSD-L553796)			Source: 96408			Prepared: 05/18/2021 Analyzed: 05/19/2021				
Barium	176	0.042	mg/Kg	4.67	188	NR	75-125	1.1	80	*
Arsenic	4.15	0.0855	"	2.33	2.68	63	75-125	0	80	*
MS (L 96408-MS-L553796)			Source: 96408			Prepared: 05/18/2021 Analyzed: 05/19/2021				
Barium	174	0.042	mg/Kg	4.78	188	NR	75-125			*
Arsenic	4.15	0.0855	"	2.39	2.68	62	75-125			*
LCS (LCS-L553796)						Prepared: 05/18/2021 Analyzed: 05/19/2021				
Barium	4.89	0.042	mg/Kg	5		98	80-120			
Arsenic	2.21	0.0855	"	2.5		88	80-120			
LRB (LRB-L553796)						Prepared: 05/18/2021 Analyzed: 05/19/2021				
Barium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			

Origins Laboratory, Inc.



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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: [none]
Project: Kielian 2-2

Notes and Definitions

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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