

IMPETRO RESOURCES LLC  
WALTERS-CALHOUN  
OTIS, COLORADO

Sample Location	Sample ID	Collection Date	DRO (mg/kg)	ORO (mg/kg)	Calcium (me/L)	Magnesium (me/L)	Sodium (me/L)	pH	SAR	EC (mmhos/cm)
SS-01	SS-01@1'	7/14/2020	<50.0	<200	4.66	1.46	16.89	8.58	9.66	0.256
SS-01	SS-01@3'	7/14/2020	<50.0	<200	3.62	1.35	12.14	8.36	7.70	0.224
SS-02	SS-02@1'	7/14/2020	1120	1860	3.13	0.90	12.15	8.78	8.56	0.206
SS-02	SS-02@3'	7/14/2020	<50.0	<200	2.28	0.93	11.02	8.73	8.70	0.179
SS-03	SS-03@1'	7/14/2020	<50.0	<200	2.46	0.78	13.48	8.44	10.59	0.254
SS-03	SS-03@3'	7/14/2020	67.2	<200	8.49	6.01	15.85	8.42	5.89	0.328
SS-04	SS-04@1'	7/14/2020	<50.0	<200	3.91	1.07	19.72	8.80	12.50	0.244
SS-04	SS-04@3'	7/14/2020	<50.0	<200	10.13	3.07	15.24	8.33	5.93	0.292
SS-05	SS-05@1'	7/14/2020	118	215	3.44	0.80	17.62	8.69	12.10	0.239
SS-05	SS-05@3'	7/14/2020	<50.0	<200	6.66	2.24	8.47	8.10	4.02	0.240
SS-06	SS-06@1'	7/14/2020	<50	<200	1.81	0.50	8.02	8.90	7.46	0.145
SS-06	SS-06@3'	7/14/2020	<50.0	<200	16.3	7.02	2.03	8.02	0.59	0.318
COGCC Colorado Soil Evaluation Value			500	500				6 to 9	<12	<4

Note: <50.0 - Not detected above laboratory detection limit.

Values in RED exceeded COGCC Table 910-1.

**LEGEND:**

● SS-01	SOIL SAMPLE LOCATION
07/14/20	SOIL SAMPLE DATE
1'	SOIL SAMPLE DEPTH (FT)
1120	DIESEL RANGE ORGANICS (C10-C28) (mg/kg)
1860	RESIDUAL RANGE ORGANICS (C28-C40) (mg/kg)
3.13	CALCIUM CONCENTRATION (me/L)
0.90	MAGNESIUM CONCENTRATION (me/L)
12.15	SODIUM CONCENTRATION (me/L)
8.78	pH (pH UNITS)
8.56	SODIUM ABSORPTION RATION
0.206	SPECIFIC CONDUCTANCE (mmhos/cm)
<50.0	LESS THAN LABORATORY DETECTION LIMITS (mg/kg)
1120	VALUES IN RED ABOVE RISK BASED SCREENING LEVEL (mg/kg)

COUNTY ROAD 39

07/14/20	07/14/20
1'	3'
<50.0	<50.0
<200	<200
4.66	3.62
1.46	1.35
16.89	12.14
8.58	8.36
9.66	7.70
0.256	0.224

SS-01

07/14/20	07/14/20
1'	3'
1120	<50.0
1860	<200
3.13	2.28
0.90	0.93
12.15	11.02
8.78	8.73
8.56	8.70
0.206	0.179

SS-02

07/14/20	07/14/20
1'	3'
<50.0	67.2
<200	<200
2.46	8.49
0.78	6.01
13.48	15.85
8.44	8.42
10.59	5.89
0.254	0.328

SS-03

07/14/20	07/14/20
1'	3'
<50.0	<50.0
<200	<200
3.91	10.13
1.07	3.07
19.72	15.24
8.80	8.33
12.50	5.93
0.244	0.292

SS-04

07/14/20	07/14/20
1'	3'
118	<50.0
215	<200
3.44	6.66
0.80	2.24
17.62	8.47
8.69	8.10
12.10	4.02
0.239	0.240

SS-05

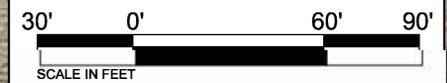
07/14/20	07/14/20
1'	3'
<50.0	<50.0
<200	<200
1.81	16.30
0.50	7.02
8.02	2.03
8.90	8.02
7.46	0.59
0.145	0.318

SS-06

DIRT BERM

HOLDING POND

DIRT BERM



Ardor Environmental LLC  
11546 W. 26th Place  
Lakewood, CO 80215

IMPETRO RESOURCES LLC  
WALTERS-CALHOUN LEASE HISTORICAL IMPACTS  
OTIS, COLORADO

CREATED BY: C. BIRD

CREATION DATE: 07/21/20

REVISION DATE: 08/03/20

SOIL SAMPLE  
LOCATION FIGURE  
(07/14/20)

July 29, 2020

**Impetro Resources**

**Trisha Fanning**

**2820 Logan Dr.**

**Loveland**

**CO 80538**

**Project Name - COGCC**

**Project Number - 7096**

Attached are your analytical results for COGCC received by Origins Laboratory, Inc. July 15, 2020. This project is associated with Origins project number Y007196-01.

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



Impetro Resources  
2820 Logan Dr.  
Loveland CO 80538

Trisha Fanning  
Project Number: 7096  
Project: COGCC

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@1'	Y007196-01	Soil	July 14, 2020 14:42	07/15/2020 10:40
SS-01@3'	Y007196-02	Soil	July 14, 2020 14:48	07/15/2020 10:40
SS-02@1'	Y007196-03	Soil	July 14, 2020 14:54	07/15/2020 10:40
SS-02@3'	Y007196-04	Soil	July 14, 2020 15:00	07/15/2020 10:40
SS-03@1'	Y007196-05	Soil	July 14, 2020 15:07	07/15/2020 10:40
SS-03@3'	Y007196-06	Soil	July 14, 2020 15:13	07/15/2020 10:40
SS-04@1'	Y007196-07	Soil	July 14, 2020 15:23	07/15/2020 10:40
SS-04@3'	Y007196-08	Soil	July 14, 2020 15:27	07/15/2020 10:40
SS-05@1'	Y007196-09	Soil	July 14, 2020 15:35	07/15/2020 10:40
SS-05@3'	Y007196-10	Soil	July 14, 2020 15:40	07/15/2020 10:40
SS-06@1'	Y007196-11	Soil	July 14, 2020 15:46	07/15/2020 10:40
SS-06@3'	Y007196-12	Soil	July 14, 2020 15:52	07/15/2020 10:40

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.*



Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC



www.originslaboratory.com

7007196

page 2 of 2

Client: Impetro Resources  
 Project Manager: Trisha Fanning  
 Address: \_\_\_\_\_  
 Project Name: COGCC  
 Telephone Number: (303) 503-7539  
 Project Number: 7096  
 Email Address: TFanning@arboenvironmental.com  
 Samples Collected by: CB/CC

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 <sub>3</sub>	Other	Groundwater	Soil	Air Sample #	Other	PH		DR
SS-06@1	7/14/20	1546	3	X				X				X	X	1
SS-06@3	7/14/20	1552	3	X				X				X	X	2
														3
														4
														5
														6
														7
														8
														9
														10
Relinquished By: <u>Christina Fanning</u>	Date: <u>7/15/20</u>	Time: <u>1040</u>	Received By: <u>[Signature]</u>	Date: <u>7/15/20</u>	Time: <u>040</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard								

Date Results Needed

Temp Received - 2.0

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y007196 Client: Impetro  
 Client Project ID: COGCC  
 Checklist Completed by: JG Shipped Via: HD  
 Date/time completed: 7/15/20 (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 7.0 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> 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: 7-16-20

Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-01@1'**

**7/14/2020 2:42:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	64.6 %	50-150			"	"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	4.66		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	1.46		"	"	"		"	"	
Sodium	16.89		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.58		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	9.66			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.256	0.00510	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-01@3'**

**7/14/2020 2:48:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	71.5 %	50-150			"	"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	3.62		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	1.35		"	"	"		"	"	
Sodium	12.14		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.36		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	7.70			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.224	0.00501	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-02@1'**

**7/14/2020 2:54:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	1120	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	
Residual Range Organics (C28-C40)	1860	200	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 81.8 % 50-150 " " "

**Metals (Saturated Paste Prep)**

Calcium	3.13		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	0.90		"	"	"		"	"	
Sodium	12.15		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.78		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	8.56			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.206	0.00500	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-02@3'**

**7/14/2020 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	62.2 %	50-150			"	"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	2.28		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	0.93		"	"	"		"	"	
Sodium	11.02		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.73		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	8.70			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.179	0.00500	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-03@1'**

**7/14/2020 3:07:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	71.7 %	50-150			"	"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	2.46		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	0.78		"	"	"		"	"	
Sodium	13.48		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.44		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	10.59			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.254	0.00500	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-03@3'**

**7/14/2020 3:13:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	67.2	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	63.5 %		50-150			"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	8.49		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	6.01		"	"	"		"	"	
Sodium	15.85		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.42		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	5.89			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.328	0.00501	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-04@1'**

**7/14/2020 3:23:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-07 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	68.7 %	50-150			"	"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	3.91		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	1.07		"	"	"		"	"	
Sodium	19.72		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.80		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	12.50			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.244	0.00502	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-04@3'**

**7/14/2020 3:27:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-08 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	59.9 %	50-150			"	"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	10.13		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	3.07		"	"	"		"	"	
Sodium	15.24		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.33		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	5.93			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.292	0.00505	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-05@1'**

**7/14/2020 3:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-09 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	118	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	
Residual Range Organics (C28-C40)	215	200	"	"	"	TEM	"	"	

Surrogate: o-Terphenyl 60.3 % 50-150 " " "

**Metals (Saturated Paste Prep)**

Calcium	3.44		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	0.80		"	"	"		"	"	
Sodium	17.62		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.69		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	12.10			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.239	0.00502	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-05@3'**

**7/14/2020 3:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-10 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	64.4 %	50-150			"	"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	6.66		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	2.24		"	"	"		"	"	
Sodium	8.47		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.10		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	4.02			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.240	0.00500	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-06@1'**

**7/14/2020 3:46:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-11 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	63.4 %		50-150			"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	1.81		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	0.50		"	"	"		"	"	
Sodium	8.02		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.90		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	7.46			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.145	0.00500	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**SS-06@3'**

**7/14/2020 3:52:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y007196-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0G1505	TEM	07/15/2020	07/17/2020	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	63.2 %		50-150			"	"	"	
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**Metals (Saturated Paste Prep)**

Calcium	16.30		me/L	1	[none]		07/24/2020	07/28/2020	
Magnesium	7.02		"	"	"		"	"	
Sodium	2.03		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.02		pH Units	1	B0G1510	DJL	07/15/2020	07/15/2020	
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**SAR by 20B Saturated Paste**

SAR	0.59			1	[none]		07/24/2020	07/28/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.318	0.00506	mmhos/cm	1	B0G1511	DJL	07/15/2020	07/15/2020	
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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**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
<b>Batch B0G1505 - EPA 3550B</b>										
<b>Blank (B0G1505-BLK1)</b>										
					Prepared: 07/15/2020 Analyzed: 07/16/2020					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	28		"	50.0		56.4	50-150			

Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**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 B0G1505 - EPA 3550B**

**LCS (B0G1505-BS1)**

Prepared: 07/15/2020 Analyzed: 07/16/2020

Diesel (C10-C28)	939	50.0	mg/kg	1000		93.9	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000		91.9	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.3	50-150			

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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**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
<b>Batch B0G1505 - EPA 3550B</b>										
<b>Matrix Spike (B0G1505-MS1)</b>		<b>Source: Y007189-01</b>			Prepared: 07/15/2020 Analyzed: 07/16/2020					
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	70-130			
Residual Range Organics (C28-C40)	993	200	"	1000	57.1	93.5	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.4	50-150			

Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Trisha Fanning  
 Project Number: 7096  
 Project: COGCC

**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
<b>Batch B0G1505 - EPA 3550B</b>										
<b>Matrix Spike Dup (B0G1505-MSD1)</b>					<b>Source: Y007189-01</b>					Prepared: 07/15/2020 Analyzed: 07/16/2020
Diesel (C10-C28)	937	50.0	mg/kg	1000	ND	93.7	70-130	5.44	35	
Residual Range Organics (C28-C40)	912	200	"	1000	57.1	85.5	70-130	8.95	35	
Surrogate: o-Terphenyl	35		"	50.0		70.6	50-150			

Origins Laboratory, Inc.



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Impetro Resources  
2820 Logan Dr.  
Loveland CO 80538

Trisha Fanning  
Project Number: 7096  
Project: COGCC

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**Notes and Definitions**

U Sample is Non-Detect.

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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PROJECT: <b>County Road 39 Otis, CO</b>		WELL/BORING ID: <b>SS-01</b>	CO DWR PERMIT #: <b>NA</b>
LOCATION: <b>Washington County, CO</b>		NORTHING: <b>40.133818</b>	EASTING: <b>-102.867062</b>
DRILLING CONTRACTOR: <b>Ardor Environmental</b>		GROUND SURFACE ELEV.: <b>4250</b>	TOC ELEVATION: <b>NA</b>
DRILLING EQUIPMENT: <b>4" Hand Auger</b>	DRILLING METHOD: <b>Hand Auger</b>	TOTAL DEPTH: <b>3.50</b>	STATIC WATER LEVEL: <b>NA</b>
SAMPLING METHOD: <b>Hand Auger</b>	Casing Diameter: <b>NA</b>	FILTER PACK MATERIAL: <b>NA</b>	ANNULAR SEAL MATERIAL: <b>NA</b>
LOGGED BY: <b>C. Bird</b>	Screen Slot Size: <b>NA</b>	Casing Material: <b>NA</b>	Surface Casing: <b>Backfilled</b>
			DATE COMPLETED: <b>7/14/2020</b>

Depth (feet)	Sample	# Blows	OVM	Completion	Lithology	Description
0						Dark brown clayey silt
1						Dark brown clayey silt (~90/10%), dry, friable, no stain, no odor
2					<b>ML</b>	Dark brown clayey silt
3						Dark brown clayey silt (~80/20%), moist, friable, no stain, no odor
	Hand Auger		9.5			
	Hand Auger		12.3			

Notes: Location hand augered to 3.5 feet bgs and refilled with cuttings and surficial soil

Site: County Road 39 Otis, CO

Location Shown on Soil Sample Location Figure



PROJECT: <b>County Road 39 Otis, CO</b>		WELL/BORING ID: <b>SS-02</b>	CO DWR PERMIT #: <b>NA</b>
LOCATION: <b>Washington County, CO</b>		NORTHING: <b>40.133808</b>	EASTING: <b>-102.866735</b>
DRILLING CONTRACTOR: <b>Ardor Environmental</b>		GROUND SURFACE ELEV.: <b>4250</b>	TOC ELEVATION: <b>NA</b>
DRILLING EQUIPMENT: <b>4" Hand Auger</b>	DRILLING METHOD: <b>Hand Auger</b>	TOTAL DEPTH: <b>3.50</b>	STATIC WATER LEVEL: <b>NA</b>
SAMPLING METHOD: <b>Hand Auger</b>	Casing Diameter: <b>NA</b>	FILTER PACK MATERIAL: <b>NA</b>	ANNULAR SEAL MATERIAL: <b>NA</b>
LOGGED BY: <b>C. Bird</b>	Screen Slot Size: <b>NA</b>	Casing Material: <b>NA</b>	Surface Casing: <b>Backfilled</b>
			DATE COMPLETED: <b>7/14/2020</b>

Depth (feet)	Sample	# Blows	OVM	Completion	Lithology	Description
0						Dark brown clayey silt
1		Hand Auger	1.8			Dark brown clayey silt (~90/10%), dry, friable, no stain, no odor
2						Dark brown clayey silt
3		Hand Auger	9.1		ML	Dark brown clayey silt (~80/20%), moist, medium stiff, friable, no stain, no odor

Notes: Location hand augered to 3.5 feet bgs and refilled with cuttings and surficial soil

Site: County Road 39 Otis, CO



PROJECT: <b>County Road 39 Otis, CO</b>		WELL/BORING ID: <b>SS-03</b>	CO DWR PERMIT #: <b>NA</b>
LOCATION: <b>Washington County, CO</b>		NORTHING: <b>40.1338</b>	EASTING: <b>-102.86648</b>
DRILLING CONTRACTOR: <b>Ardor Environmental</b>		GROUND SURFACE ELEV.: <b>4250</b>	TOC ELEVATION: <b>NA</b>
DRILLING EQUIPMENT: <b>4" Hand Auger</b>	DRILLING METHOD: <b>Hand Auger</b>	TOTAL DEPTH: <b>3.50</b>	STATIC WATER LEVEL: <b>NA</b>
SAMPLING METHOD: <b>Hand Auger</b>	Casing Diameter: <b>NA</b>	FILTER PACK MATERIAL: <b>NA</b>	ANNULAR SEAL MATERIAL: <b>NA</b>
LOGGED BY: <b>C. Bird</b>	Screen Slot Size: <b>NA</b>	Casing Material: <b>NA</b>	Surface Casing: <b>Backfilled</b>
			DATE COMPLETED: <b>7/14/2020</b>

Depth (feet)	Sample	# Blows	OVM	Completion	Lithology	Description
0						Dark brown clayey silt
1	Hand Auger	1.6			ML	Dark brown clayey silt (~80/20%), dry, medium stiff, friable, no stain, no odor
2						Dark brown clayey silt
3	Hand Auger	8.9			CL	Dark/light brown silty clay (~70/30%), moist, medium firm, high plasticity, no stain, no odor

Notes: Location hand augered to 3.5 feet bgs and refilled with cuttings and surficial soil

Site: County Road 39 Otis, CO



PROJECT: <b>County Road 39 Otis, CO</b>		WELL/BORING ID: <b>SS-04</b>	CO DWR PERMIT #: <b>NA</b>
LOCATION: <b>Washington County, CO</b>		NORTHING: <b>40.133782</b>	EASTING: <b>-102.866287</b>
DRILLING CONTRACTOR: <b>Ardor Environmental</b>		GROUND SURFACE ELEV.: <b>4250</b>	TOC ELEVATION: <b>NA</b>
DRILLING EQUIPMENT: <b>4" Hand Auger</b>	DRILLING METHOD: <b>Hand Auger</b>	TOTAL DEPTH: <b>3.50</b>	STATIC WATER LEVEL: <b>NA</b>
SAMPLING METHOD: <b>Hand Auger</b>	Casing Diameter: <b>NA</b>	FILTER PACK MATERIAL: <b>NA</b>	ANNULAR SEAL MATERIAL: <b>NA</b>
LOGGED BY: <b>C. Bird</b>	Screen Slot Size: <b>NA</b>	Casing Material: <b>NA</b>	Surface Casing: <b>Backfilled</b>
			DATE COMPLETED: <b>7/14/2020</b>

Depth (feet)	Sample	# Blows	OVM	Completion	Lithology	Description
0						Dark brown silty clay
1		Hand Auger	1.5			Dark brown silty clay (~60/40%), damp, medium firm, medium plasticity, no stain, no odor
2					CL	Dark brown silty clay
3		Hand Auger	2.1			Dark brown silty clay (~70/30%), moist, medium firm, medium plasticity, no stain, no odor

Notes: Location hand augered to 3.5 feet bgs and refilled with cuttings and surficial soil

Site: County Road 39 Otis, CO

Location Shown on Soil Sample Location Figure



PROJECT: <b>County Road 39 Otis, CO</b>		WELL/BORING ID: <b>SS-05</b>	CO DWR PERMIT #: <b>NA</b>
LOCATION: <b>Washington County, CO</b>		NORTHING: <b>40.13378</b>	EASTING: <b>-102.866137</b>
DRILLING CONTRACTOR: <b>Ardor Environmental</b>		GROUND SURFACE ELEV.: <b>4250</b>	TOC ELEVATION: <b>NA</b>
DRILLING EQUIPMENT: <b>4" Hand Auger</b>	DRILLING METHOD: <b>Hand Auger</b>	TOTAL DEPTH: <b>3.50</b>	STATIC WATER LEVEL: <b>NA</b>
SAMPLING METHOD: <b>Hand Auger</b>	Casing Diameter: <b>NA</b>	FILTER PACK MATERIAL: <b>NA</b>	ANNULAR SEAL MATERIAL: <b>NA</b>
LOGGED BY: <b>C. Bird</b>	Screen Slot Size: <b>NA</b>	Casing Material: <b>NA</b>	Surface Casing: <b>Backfilled</b>
			DATE COMPLETED: <b>7/14/2020</b>

Depth (feet)	Sample	# Blows	OVM	Completion	Lithology	Description
0						Dark brown clayey silt
1		Hand Auger	3.9			Dark brown clayey silt (~90/10%), damp, friable, no stain, no odor
2					ML	Dark brown clayey silt
3		Hand Auger	1.7			Dark brown clayey silt (~80/20%), damp, friable, no stain, no odor

Notes: Location hand augered to 3.5 feet bgs and refilled with cuttings and surficial soil

Site: County Road 39 Otis, CO

Location Shown on Soil Sample Location Figure



PROJECT: <b>County Road 39 Otis, CO</b>		WELL/BORING ID: <b>SS-06</b>	CO DWR PERMIT #: <b>NA</b>
LOCATION: <b>Washington County, CO</b>		NORTHING: <b>40.133803</b>	EASTING: <b>-102.866062</b>
DRILLING CONTRACTOR: <b>Ardor Environmental</b>		GROUND SURFACE ELEV.: <b>4250</b>	TOC ELEVATION: <b>NA</b>
DRILLING EQUIPMENT: <b>4" Hand Auger</b>	DRILLING METHOD: <b>Hand Auger</b>	TOTAL DEPTH: <b>3.50</b>	STATIC WATER LEVEL: <b>NA</b>
SAMPLING METHOD: <b>Hand Auger</b>	Casing Diameter: <b>NA</b>	FILTER PACK MATERIAL: <b>NA</b>	ANNULAR SEAL MATERIAL: <b>NA</b>
LOGGED BY: <b>C. Bird</b>	Screen Slot Size: <b>NA</b>	Casing Material: <b>NA</b>	Surface Casing: <b>Backfilled</b>
			DATE COMPLETED: <b>7/14/2020</b>

Depth (feet)	Sample	# Blows	OVM	Completion	Lithology	Description
0						Dark brown clayey silt
1		Hand Auger	1.8		ML	Dark brown clayey silt (~90/10%), dry, friable, no stain, no odor
2					CL	Dark brown silty clay
3		Hand Auger	3			Dark/light brown silty clay (~60/40%), damp, soft, medium plasticity, no stain, no odor

Notes: Location hand augered to 3.5 feet bgs and refilled with cuttings and surficial soil

Site: County Road 39 Otis, CO