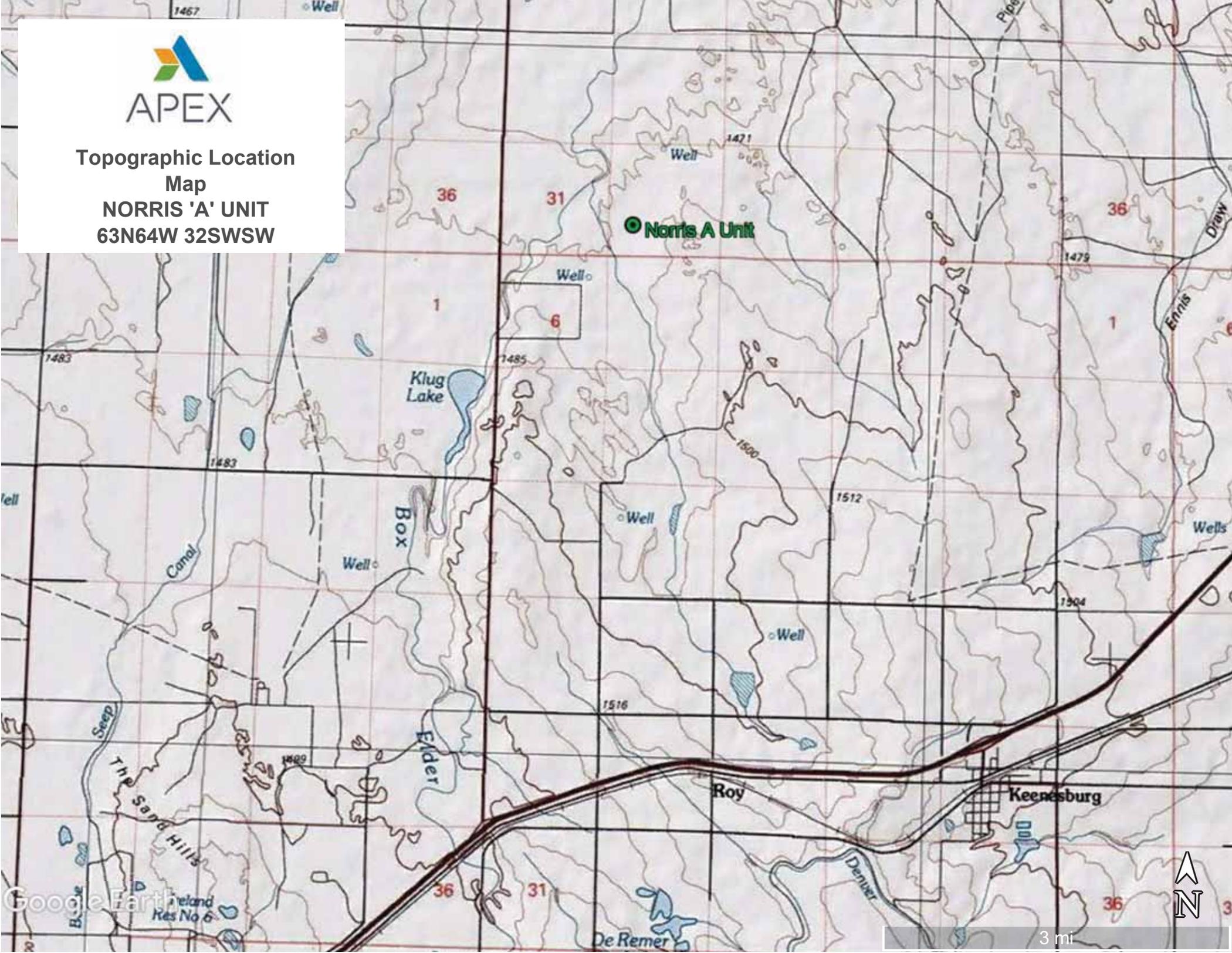


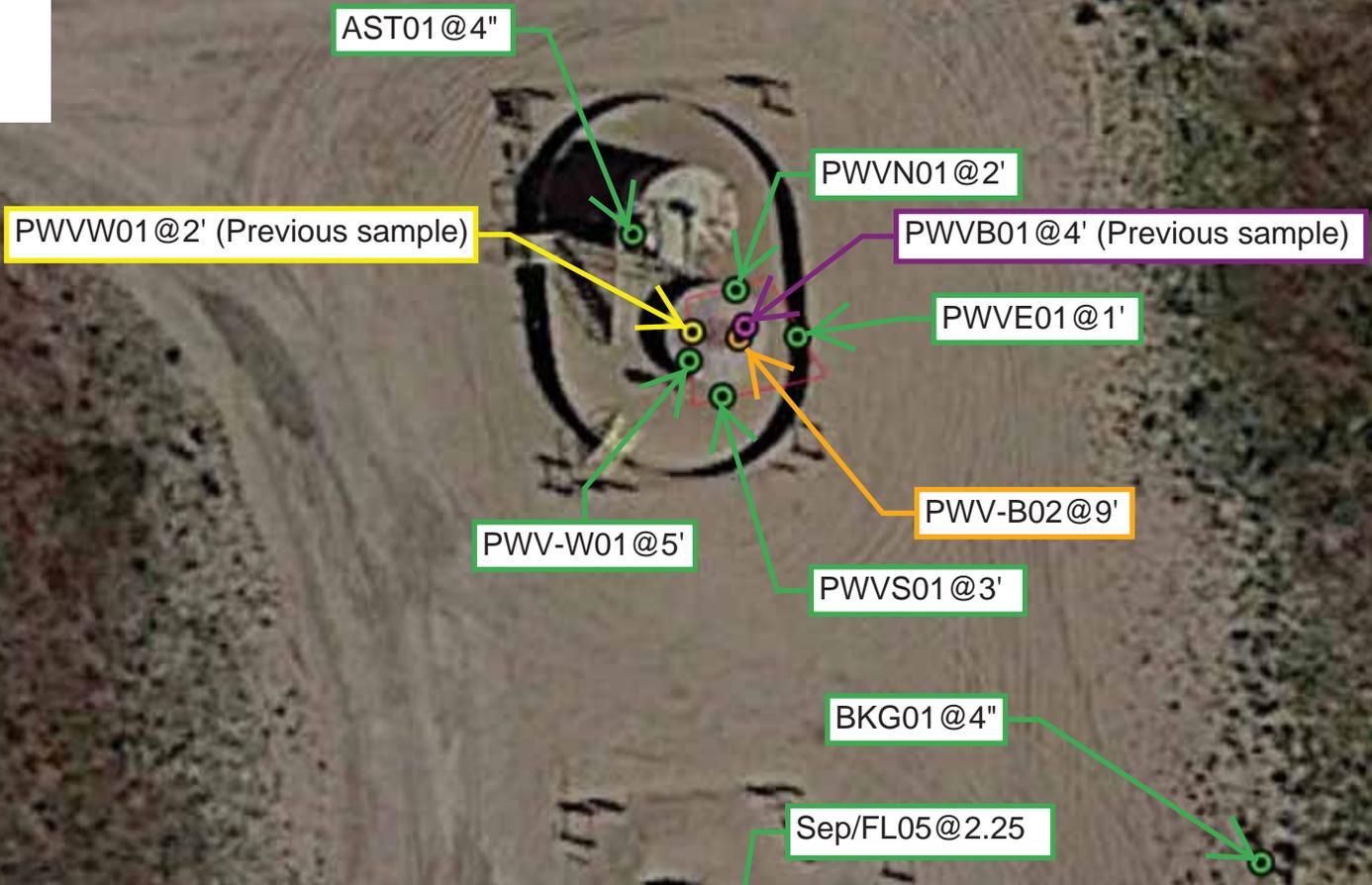


Topographic Location  
Map  
NORRIS 'A' UNIT  
63N64W 32SW





Norris A Unite 63N64W  
32SWSW  
(Location ID: 329866)  
"Norris A Unit 2"



**Legend**

- Arsenic Exceedance
- ▭ Excavation Extent
- Field Screen Only
- Inorganic/ Metal Exceedance
- No Exceedances
- Organic Exceedance



## Laboratory Results Summary Table Norris "A" Unit Soil Samples -Soil Samples - Organics

			Organic Compounds in Soils (mg/kg)							
COGCC Allowable Concentration (Soil) -->			500	1.2/0.0026(M)	490/0.69(M)	5.8/0.78(M)	58/9.9(M)	30/0.0081(R)	27/0.0087(R)	2/0.0038(R)
Location	Sample Date	Sample ID	TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p-isomers = total xylenes)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene
Norris A Unit 2	5/16/2022	PWVB01@4'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3.01
Norris A Unit 2	5/16/2022	PWVN01@2'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Norris A Unit 2	5/16/2022	PWVE01@1'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Norris A Unit 2	5/16/2022	PWVW01@2'	59.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335
Norris A Unit 2	5/16/2022	SEP/FL05@2.25	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Norris A Unit 2	5/16/2022	PWVS01@3'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Norris A Unit 2	5/16/2022	AST01@4"	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Norris A Unit 2	6/17/2022	PWV-B02@9'	31.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335
Norris A Unit 2	6/17/2022	PWV-W01@5'	NA	NA	NA	NA	NA	NA	NA	NA
Norris A Unit 2	6/17/2022	BKG01@4"	NA	NA	NA	NA	NA	NA	NA	NA

**Legend:**

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter



# Laboratory Results Summary Table

## Norris "A" Unit

### Soil Samples - Polycyclic Aromatic Hydrocarbons (PAHs)

Organic Compounds in Soils (mg/kg)																
COGCC Allowable Concentration (Soil) -->			360/0.55(R)	1800/5.8(R)	1.1/0.011(R)	1.1/0.3(R)	11/2.9(R)	0.11/0.24(M)	110/9(R)	0.11/0.096(R)	240/8.9(R)	240/0.54(R)	1.1/0.98(R)	18/0.006(R)	24/0.019(R)	180/1.3(R)
Site Specific Background -->																
Location	Sample Date	Sample ID	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Pyrene
Norris A Unit 2	5/16/2022	PWVB01@4'	0.00992	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	0.00525	0.0206	<0.0067	1.03	2.7	<0.0067
Norris A Unit 2	5/16/2022	PWVN01@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Norris A Unit 2	5/16/2022	PWVE01@1'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00077	<0.00067	<0.00067	<0.00067	<0.00067	0.000643
Norris A Unit 2	5/16/2022	PWVW01@2'	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	0.00219	0.00416	<0.00335	<0.00335	<0.00335	<0.00335
Norris A Unit 2	5/16/2022	SEP/FL05@2.25	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000894	<0.00067	<0.00067	0.00118	<0.00067	<0.00067	<0.00067
Norris A Unit 2	5/16/2022	PWVS01@3'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000514	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Norris A Unit 2	5/16/2022	AST01@4"	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00048	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Norris A Unit 2	6/17/2022	PWV-B02@9'	<0.00335	<0.00335	<0.00335	0.0196	0.00468	0.00981	0.02	<0.00335	<0.00335	<0.00335	0.00562	<0.00335	<0.00335	0.0176
Norris A Unit 2	6/17/2022	PWV-W01@5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Norris A Unit 2	6/17/2022	BKG01@4"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Legend:**

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter



# Laboratory Results Summary Table Norris "A" Unit Soil Samples - Inorganics and Metals

			Soil Suitability for Reclamation				Metals in Soils (mg/kg)									
COGCC Allowable Concentration (Soil) -->			<4	<6	(6-8.3)	2	0.68/0.29(M)	15000/82(M)	71/0.38(M)	0.3/0.00067(R)	3100/46(M)	400/14(M)	1500/26(R)	390/0.26(M)	390/0.8(R)	23000/370(R)
Site Specific Background -->					9.2		1.675	49.375								
Location	Sample Date	Sample ID	Electrical Conductivity (EC) (by saturated paste method) (mmhos/cm)	Sodium Adsorption Ratio (SAR) (by saturated paste method) (Calculation)	pH (by saturated paste method) (pH Units)	Boron (hot water soluble soil extract) (mg/L)	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Norris A Unit 2	5/16/2022	PWVB01@4'	1.08	2.45	8.00	0.0985	1.02	24.4	0.0712	<0.51	3.14	4.03	2.5	0.188	0.0127	13.1
Norris A Unit 2	5/16/2022	PWVN01@2'	0.218	2.38	6.43	<0.0986	0.736	24.2	0.041	<0.501	2.11	3.39	2.25	0.185	0.0118	9.71
Norris A Unit 2	5/16/2022	PWVE01@1'	0.174	1.68	6.78	<0.0977	0.998	33	0.0455	<0.5	2.85	3.98	3.12	0.222	0.0158	14.2
Norris A Unit 2	5/16/2022	PWVW01@2'	0.394	0.208	5.04	<0.0997	1.03	34.6	0.0439	<0.513	2.98	4.2	2.91	0.182	0.0151	13.8
Norris A Unit 2	5/16/2022	SEP/FL05@2.25	0.942	2.45	8.32	<0.0985	0.984	37.8	0.0723	<0.5	3.16	4.54	3.25	0.257	0.0165	15.5
Norris A Unit 2	5/16/2022	PWVS01@3'	0.0763	0.180	6.15	<0.0986	0.828	25	0.0626	<0.5	2.47	3.79	2.31	0.195	0.0105	11.4
Norris A Unit 2	5/16/2022	AST01@4"	0.0603	0.170	6.62	<0.0984	1.08	33	0.0755	<0.52	2.86	4.56	3.39	0.233	0.019	14.1
Norris A Unit 2	6/17/2022	PWV-B02@9'	0.221	5.09	6.13	<0.100	2.42	41.4	<0.100	<0.5	<10.0	3.82	2.88	<0.100	<0.100	14.0
Norris A Unit 2	6/17/2022	PWV-W01@5'	NA	NA	7.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Norris A Unit 2	6/17/2022	BKG01@4"	0.561	0.0722	7.36	0.100	1.34	39.5	<0.100	<1	<10.0	4.52	2.32	<0.100	<0.100	14.9

**Legend:**

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

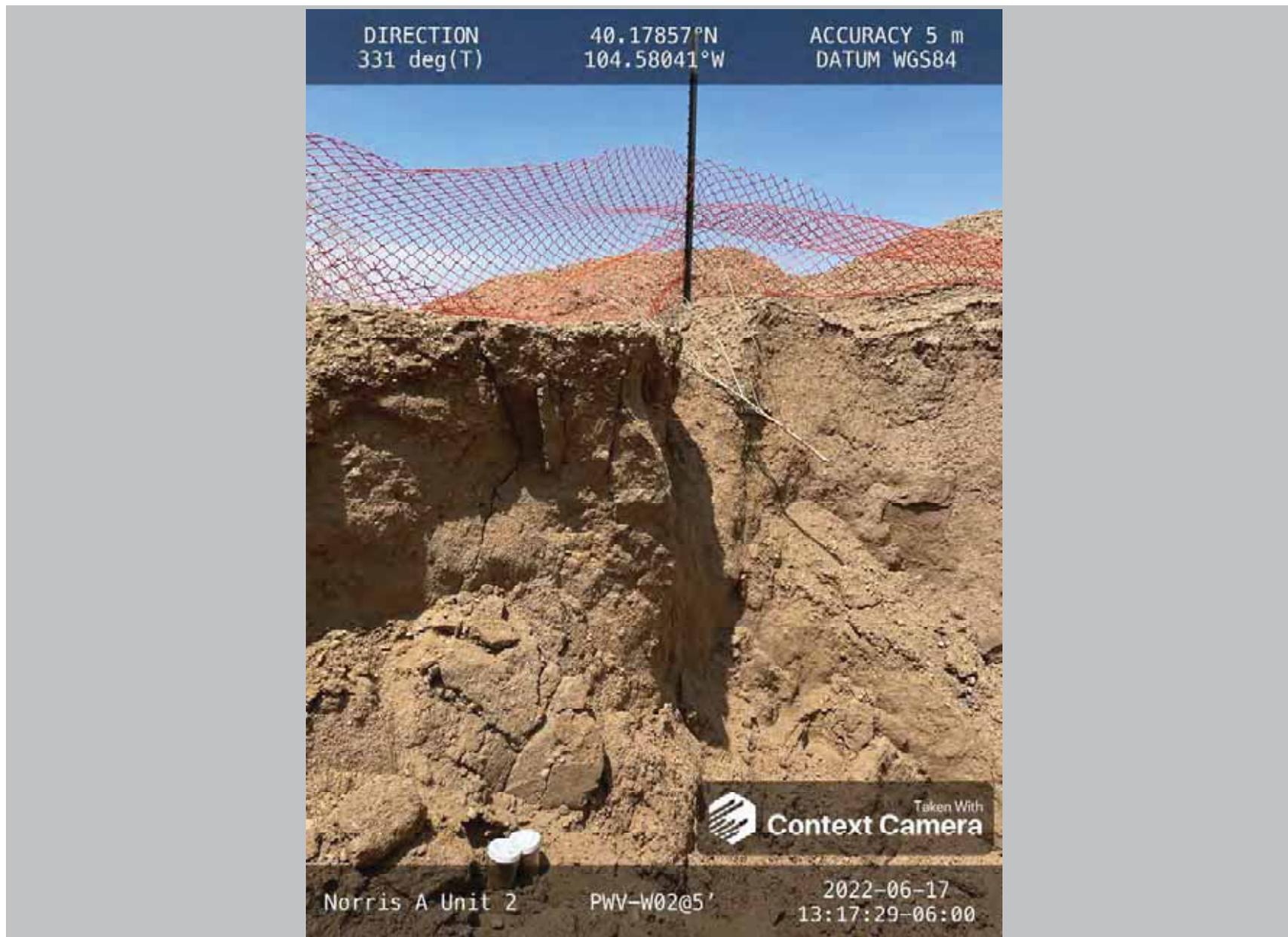
Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

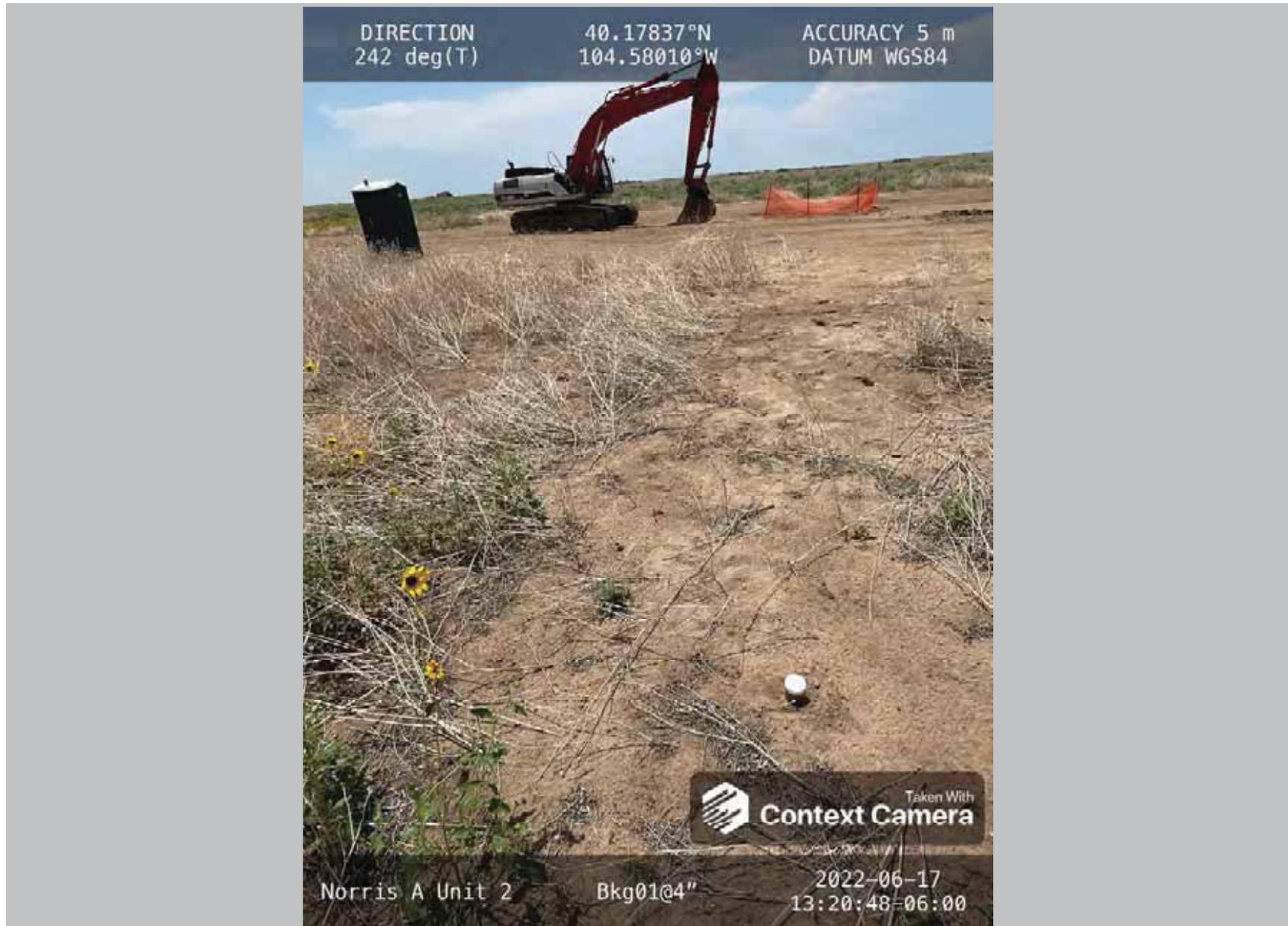
mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter



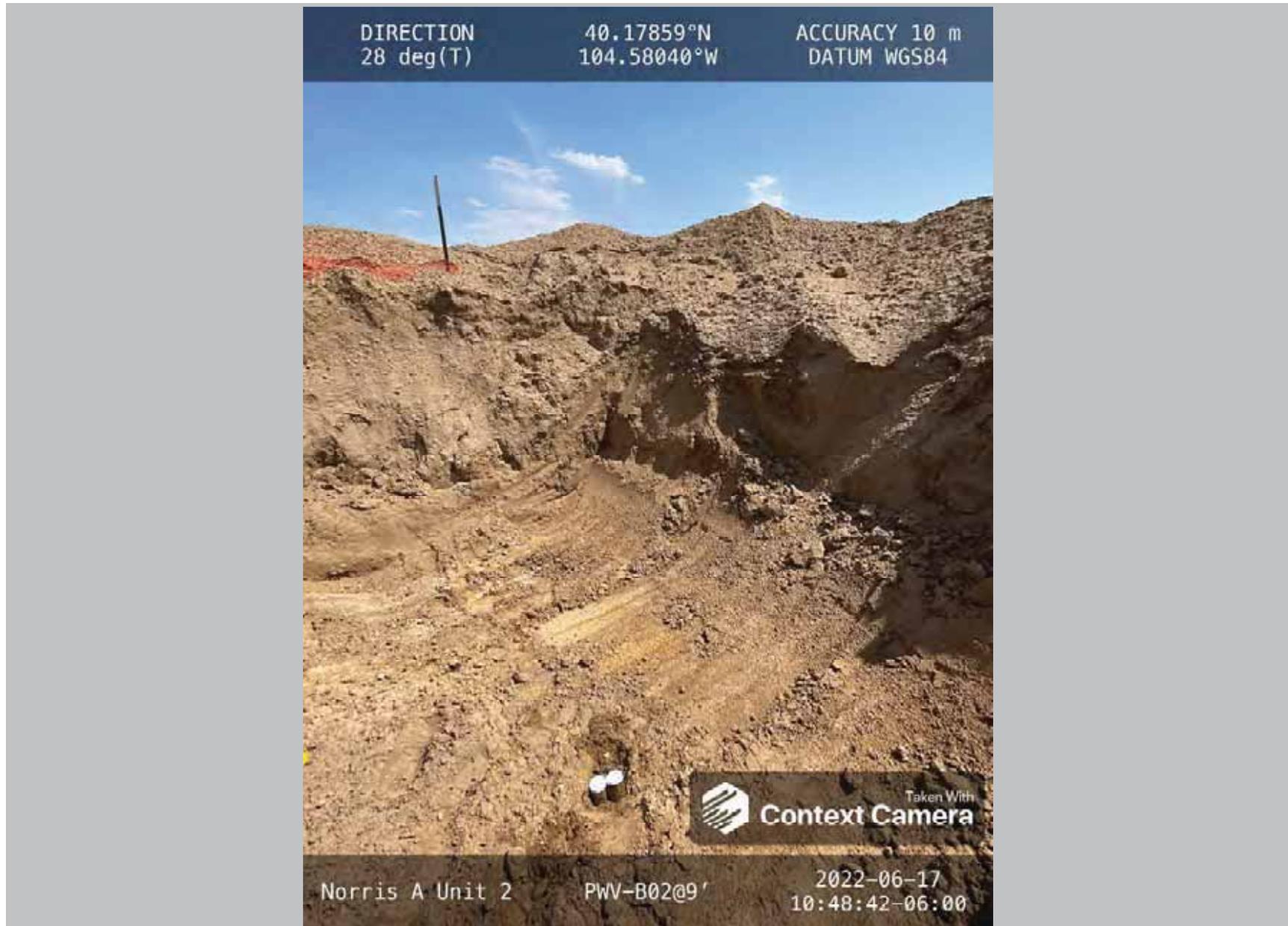
**Description:**

Norris A Unit PWV02@5'



**Description:**

Norris A Unit BKG01@4'



**Description:**

Norris A Unit PWVB02@9'



May 16, 2022 3:19:30 PM  
40.17860522N 104.58037728W  
Keenesburg  
Colorado  
Altitude: 1450.8m  
Speed: 0.0km/h  
#Norris Unit A #PWV #Base 4

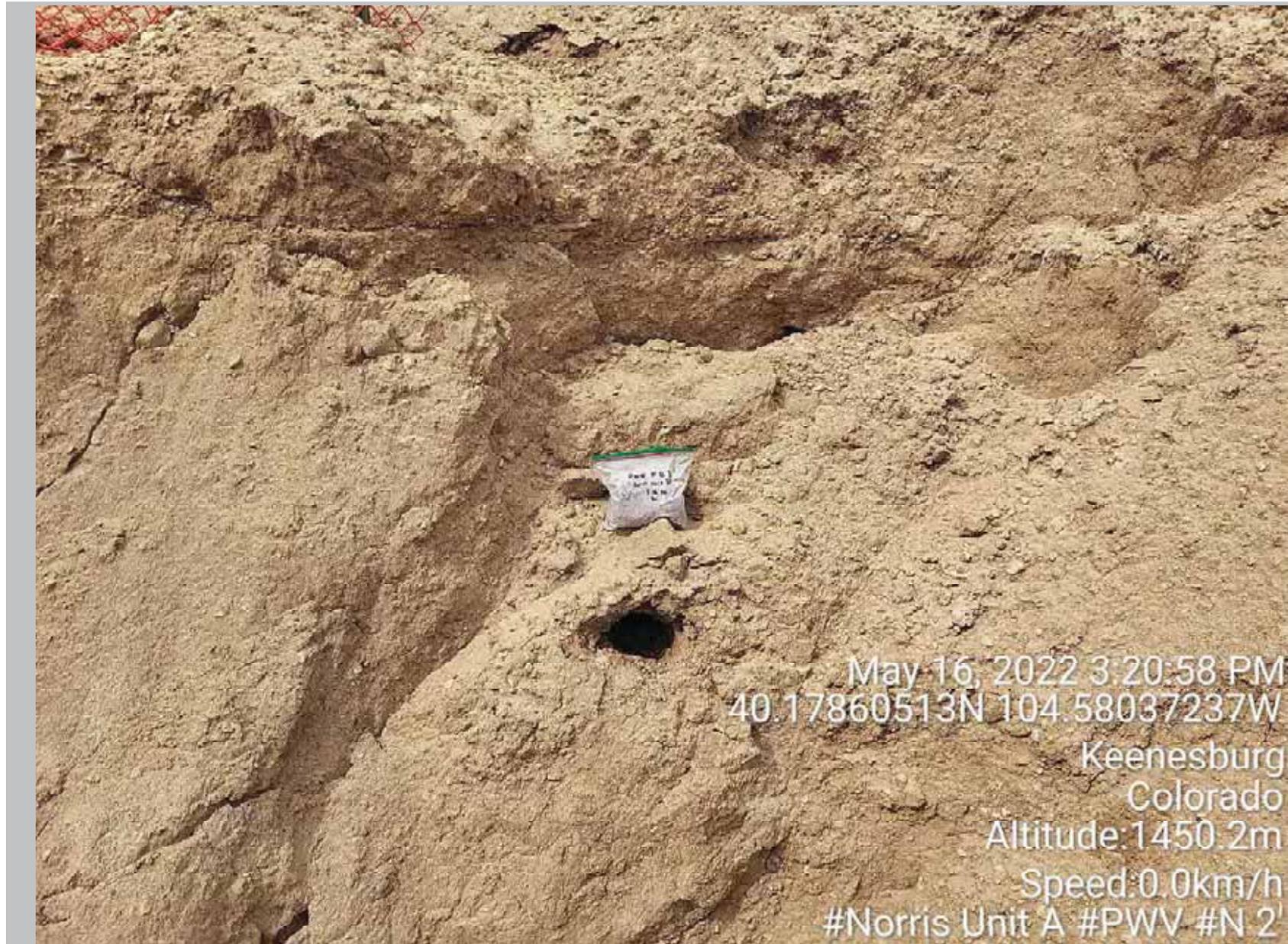
**Description:**

Norris A Unit PWV01B@4'



**Description:**

Norris A Unit PWVE01@3'



**Description:**

Norris A Unit PWVN01@2'



May 16, 2022 3:21:34 PM  
40.17860531N 104.58037227W

Keenesburg

Colorado

Altitude: 1450.2m

Speed: 0.0km/h

#Norris Unit A #PWV #W 2'

**Description:**

Norris A Unit PWV@2'



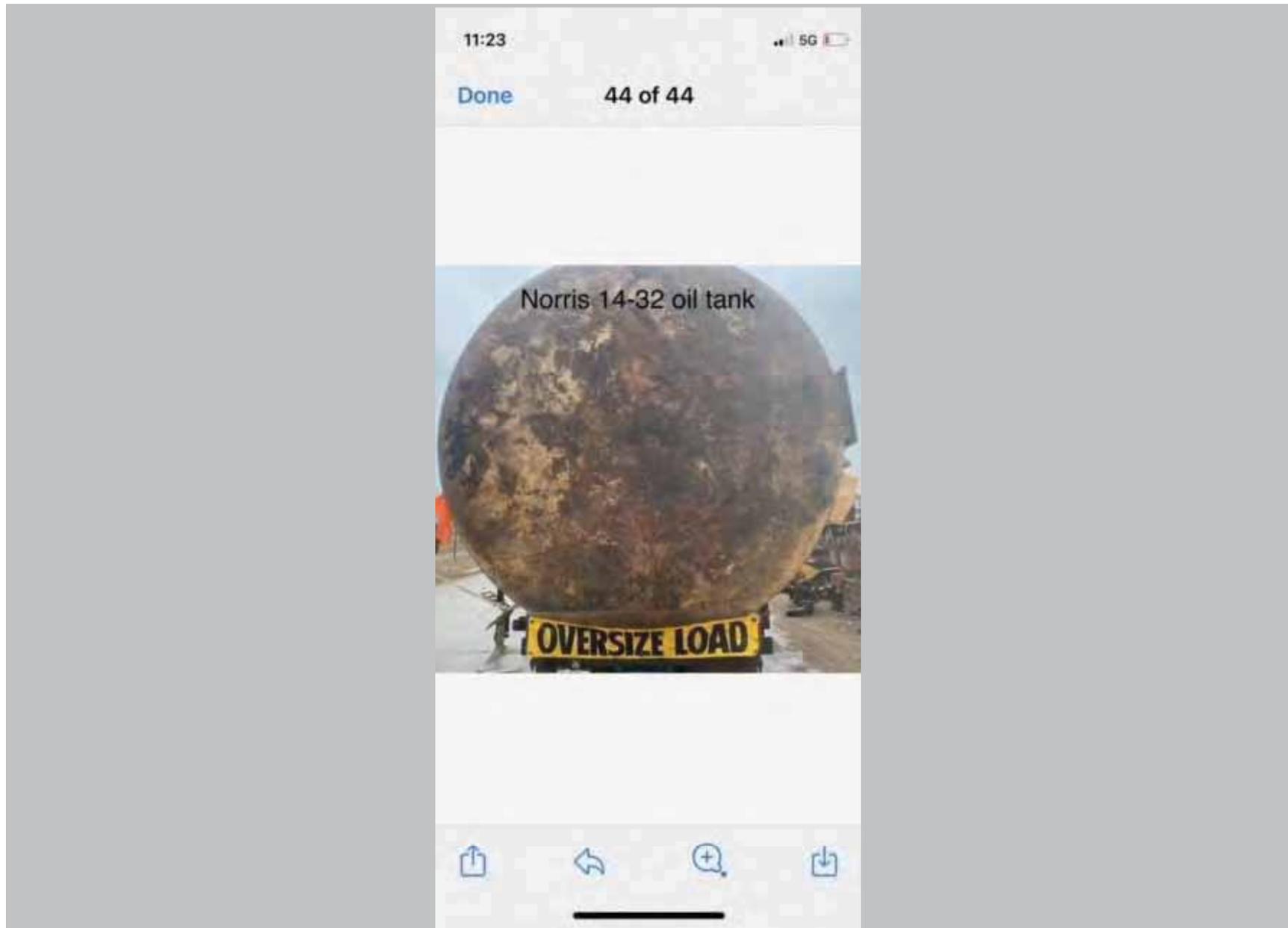
**Description:**

Norris A Unit MS01@4"



**Description:**

Norris A Unit AST01@4"



**Description:**

Norris A Unit Oil Tank

## Tank Battery Closure Checklist

### COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure <b>Yes</b>		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: <b>329866</b>		09-28-2022						Remediation Project #: <b>18020</b>	
Associated Wells: <b>Norris - 14-32</b>		Age of Site: <b>28 Years</b>						Number of Photos Attached: <b>N/A</b>	
Location: (GPS coordinates of southeaster berm) <b>40.28548,-104.66464</b>							Estimated Facility Size (acres): <b>3.67</b>		

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

**Good Condition**

USCS Soil Type: <b>SW</b>	Estimated Depth to Groundwater: <b>21 Feet</b>
---------------------------	---

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**N/A**

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**N/A**

#### Tanks

Tank Contents	Unknown							
Size (barrels)	Unknown							
Age	N/A							
Construction Material	Unknown							
Tank type (AST/DRV, etc.)	AST							
Visual Integrity of Tank	Intact							
Condition of tank footprint	Unknown							
PID Readings	0.0-2.0ppm							
Soil impacts present at valves or hatches?	No							
PID Readings	0.6ppm							
Sample taken? Location/ Sample ID#	See Figure							
Photo Number(s)	See Attached							

Other observations regarding tanks:

#### Separators

Separator size	Unknown							
Vertical or Horizontal	Unknown							
Age	Unknown							
Soil impacts present at hatches?	No Impacts							
PID Readings	0.0ppm							
Sample taken? Location/ Sample ID#	SEP/ FI05@2.25'							
Photo Number(s)								

Other observations regarding separators

#### Third Party Equipment

Type	Meter Shed							
Age	Unknown							

Third Party Operator	Unknown								
Removal Date	Unknown								
Location/Sample	MS								
PID Readings	0.5ppm								
Photo Number(s)									

### Other Facility Equipment

Equipment type					
Equipment Condition					
Age					
Soil impacts					
PID Readings					
Sample taken?					
Photo Number(s)					

Other observations regarding other facility or third party equipment:

### Summary

Was impacted soil identified?	
<input checked="" type="radio"/> No	Yes - less than 10 cubic yards      Yes - more than 10 cubic yards
Total number of samples field screened: <b>13</b>	Total number of samples collected: <b>9</b>
Highest PID Reading: <b>2.0</b>	Total number of samples submitted to lab for analysis: <b>9</b>
If more than 10 cubic yards of impacted soil were observed:	
Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:
Is additional investigation required?	
Was groundwater encountered during the investigation?	
<input checked="" type="radio"/> No	Yes - not impacted or in contact with impacted soils      Yes - groundwater impacted and/or in contact with impacted soils
Measured depth to groundwater:	Was remedial groundwater removal conducted?      Yes      No
Date Groundwater was encountered:	Commencement date of removal:
Sheen on groundwater?      Yes      No	Volume of groundwater removed prior to sampling:
Free product observed?      Yes      No	Volume of groundwater removed post sampling:
Total number of samples collected:	Total Volume of groundwater removed:
Total number of samples submitted to lab for analysis:	



May 27, 2022

Apex Companies, LLC  
Maggie Graham  
4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - Norris A Unit 2 Tank Battery

Project Number - [none]

Attached are your analytical results for Norris A Unit 2 Tank Battery received by Origins Laboratory, Inc. May 16, 2022. This project is associated with Origins project number Y205408-01.

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



Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: [none]  
Project: Norris A Unit 2 Tank Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWVB01@4'	Y205408-01	Soil	May 16, 2022 14:35	05/16/2022 17:54
PWVN01@2'	Y205408-02	Soil	May 16, 2022 14:40	05/16/2022 17:54
PWVE01@1'	Y205408-03	Soil	May 16, 2022 14:50	05/16/2022 17:54
PWVW01@2'	Y205408-04	Soil	May 16, 2022 14:55	05/16/2022 17:54
PWVS01@3'	Y205408-05	Soil	May 16, 2022 14:45	05/16/2022 17:54
AST01@4"	Y205408-06	Soil	May 16, 2022 15:40	05/16/2022 17:54

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*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.*



Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7205408 Client: Apex  
 Client Project ID: Norris A Unit 2 TB  
 Checklist Completed by: JA Shipped Via: HD  
 Date/Time completed: 5/16/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: L113 °C 1 °C 1 °C (Describe)  
 Thermometer ID: T004

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? if yes, contact client and note in narrative.			<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 (Project Manager)

Date/Time Reviewed 5/16/22

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVB01@4'  
 5/16/2022 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.0985		0.0985	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1623	05/16/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	79.0 %		50-150			"	"	"	
-------------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/16/2022	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

<i>Surrogate: 1,2-Dichloroethane-d4</i>	117 %		70-130			"	"	"	
---	-------	--	--------	--	--	---	---	---	--

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVB01@4'  
 5/16/2022 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
 Y205408-01 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.7 %		70-130			B2E16 26	05/16/2022	05/16/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.47		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	1.40		0.823	"	"	"	"	"	
Sodium	3.81		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	1.03	0.00364	0.0067	mg/Kg	10	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	2.7	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	0.00992	0.00304	0.0067	"	"	"	"	"	
Anthracene	ND	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	ND	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	0.00525	0.00394	0.0067	"	"	"	"	"	J
Fluorene	0.0206	0.00286	0.0067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVB01@4'  
 5/16/2022 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205408-01 (Soil)

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	mg/Kg	10	L617551	05/23/2022	05/24/2022	
Naphthalene	3.01	0.00484	0.0067	"	"	"	"	"	
Pyrene	ND	0.00643	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	82.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	0 %		29-110			"	"	"	*

**pH in Soil by 9045D**

pH	8.00			pH Units	1	B2E1708	05/17/2022	05/18/2022	
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**SAR by 20B Saturated Paste**

SAR	2.45			SAR	1	B2E1707	05/17/2022	05/18/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.08		0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022	
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**Total Metals by 6020B**

Arsenic	1.02	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Barium	24.4	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVB01@4'

5/16/2022 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205408-01 (Soil)

**Total Metals by 6020B**

Cadmium	0.0712	0.0259	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	J
Copper	3.14	0.0806	0.25	"	"	"	"	"	
Lead	4.03	0.031	0.25	"	"	"	"	"	
Nickel	2.5	0.0633	0.25	"	"	"	"	"	
Selenium	0.188	0.103	0.25	"	"	"	"	"	J
Silver	0.0127	0.0067	0.25	"	"	"	"	"	J
Zinc	13.1	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVN01@2'  
 5/16/2022 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.0986	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1623	05/16/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 92.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/16/2022	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 118 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVN01@2'  
 5/16/2022 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y205408-02 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.6 %		70-130			B2E16 26	05/16/2022	05/16/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.10		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVN01@2'  
 5/16/2022 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205408-02 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.4 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	6.43			pH Units	1	B2E1708	05/17/2022	05/18/2022	
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**SAR by 20B Saturated Paste**

SAR	2.38			SAR	1	B2E1707	05/17/2022	05/18/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.218		0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022	
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**Total Metals by 6020B**

Arsenic	0.736	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVN01@2'

5/16/2022 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205408-02 (Soil)

**Total Metals by 6020B**

Barium	24.2	0.042	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Cadmium	0.041	0.0259	0.25	"	"	"	"	"	J
Copper	2.11	0.0806	0.25	"	"	"	"	"	
Lead	3.39	0.031	0.25	"	"	"	"	"	
Nickel	2.25	0.0633	0.25	"	"	"	"	"	
Selenium	0.185	0.103	0.25	"	"	"	"	"	J
Silver	0.0118	0.0067	0.25	"	"	"	"	"	J
Zinc	9.71	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVE01@1'  
 5/16/2022 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-03 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.0977	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1623	05/16/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	85.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/16/2022	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

<i>Surrogate: 1,2-Dichloroethane-d4</i>	119 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVE01@1'

5/16/2022 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-03 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.1 %		70-130			B2E16 26	05/16/2022	05/16/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.796		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00077	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVE01@1'  
 5/16/2022 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205408-03 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.000643	0.000643	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	59 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.3 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	6.78			pH Units	1	B2E1708	05/17/2022	05/18/2022	
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**SAR by 20B Saturated Paste**

SAR	1.68			SAR	1	B2E1707	05/17/2022	05/18/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.174		0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022	
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**Total Metals by 6020B**

Arsenic	0.998	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVE01@1'  
 5/16/2022 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
 Y205408-03 (Soil)

**Total Metals by 6020B**

Barium	33	0.042	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Cadmium	0.0455	0.0259	0.25	"	"	"	"	"	J
Copper	2.85	0.0806	0.25	"	"	"	"	"	
Lead	3.98	0.031	0.25	"	"	"	"	"	
Nickel	3.12	0.0633	0.25	"	"	"	"	"	
Selenium	0.222	0.103	0.25	"	"	"	"	"	J
Silver	0.0158	0.0067	0.25	"	"	"	"	"	J
Zinc	14.2	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVW01@2'  
 5/16/2022 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-04 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.0997	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	59.7		25.0	mg/kg	1	B2E1623	05/16/2022	05/16/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 84.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/16/2022	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 120 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVW01@2'  
 5/16/2022 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-04 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.9 %		70-130			B2E16 26	05/16/2022	05/16/2022	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.81		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00219	0.00197	0.00335	"	"	"	"	"	J

Origins Laboratory, Inc.



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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVW01@2'  
 5/16/2022 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205408-04 (Soil)

**PAH by 8270D SIM**

Fluorene	0.00416	0.00143	0.00335	mg/Kg	5	L617551	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	66.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	79 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	73.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	5.04			pH Units	1	B2E1708	05/17/2022	05/18/2022	
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**SAR by 20B Saturated Paste**

SAR	0.208			SAR	1	B2E1707	05/17/2022	05/18/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.394		0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022	
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**Total Metals by 6020B**

Arsenic	1.03	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVW01@2'

5/16/2022 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205408-04 (Soil)

**Total Metals by 6020B**

Barium	34.6	0.042	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Cadmium	0.0439	0.0259	0.25	"	"	"	"	"	J
Copper	2.98	0.0806	0.25	"	"	"	"	"	
Lead	4.2	0.031	0.25	"	"	"	"	"	
Nickel	2.91	0.0633	0.25	"	"	"	"	"	
Selenium	0.182	0.103	0.25	"	"	"	"	"	J
Silver	0.0151	0.0067	0.25	"	"	"	"	"	J
Zinc	13.8	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVS01@3'  
 5/16/2022 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-05 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.0986	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1623	05/16/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	82.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/16/2022	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

<i>Surrogate: 1,2-Dichloroethane-d4</i>	120 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVS01@3'  
 5/16/2022 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-05 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.0 %		70-130			B2E16 26	05/16/2022	05/16/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000514	0.000394	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVS01@3'  
 5/16/2022 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205408-05 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	6.15			pH Units	1	B2E1708	05/17/2022	05/18/2022	
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**SAR by 20B Saturated Paste**

SAR	0.180			SAR	1	B2E1707	05/17/2022	05/18/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0763		0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022	
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**Total Metals by 6020B**

Arsenic	0.828	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

PWVS01@3'  
 5/16/2022 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
 Y205408-05 (Soil)

**Total Metals by 6020B**

Barium	25	0.042	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Cadmium	0.0626	0.0259	0.25	"	"	"	"	"	J
Copper	2.47	0.0806	0.25	"	"	"	"	"	
Lead	3.79	0.031	0.25	"	"	"	"	"	
Nickel	2.31	0.0633	0.25	"	"	"	"	"	
Selenium	0.195	0.103	0.25	"	"	"	"	"	J
Silver	0.0105	0.0067	0.25	"	"	"	"	"	J
Zinc	11.4	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

AST01@4"

5/16/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-06 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.0984	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1623	05/16/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	81.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/16/2022	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

<i>Surrogate: 1,2-Dichloroethane-d4</i>	120 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

AST01@4"

5/16/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205408-06 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.2 %		70-130			B2E16 26	05/16/2022	05/16/2022	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00048	0.000394	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

AST01@4"

5/16/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
 Y205408-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	79.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	65.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.62			pH Units	1	B2E1708	05/17/2022	05/18/2022	
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SAR by 20B Saturated Paste

SAR	0.170			SAR	1	B2E1707	05/17/2022	05/18/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0603		0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022	
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Total Metals by 6020B

Arsenic	1.08	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

AST01@4"

5/16/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
 Y205408-06 (Soil)

**Total Metals by 6020B**

Barium	33	0.042	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Cadmium	0.0755	0.0259	0.25	"	"	"	"	"	J
Copper	2.86	0.0806	0.25	"	"	"	"	"	
Lead	4.56	0.031	0.25	"	"	"	"	"	
Nickel	3.39	0.0633	0.25	"	"	"	"	"	
Selenium	0.233	0.103	0.25	"	"	"	"	"	J
Silver	0.019	0.0067	0.25	"	"	"	"	"	J
Zinc	14.1	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 B2E1623 - EPA 3580										
Blank (B2E1623-BLK1) <span style="float: right;">Prepared: 05/16/2022 Analyzed: 05/16/2022</span>										
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
<i>Surrogate: o-Terphenyl</i>	<i>24</i>		<i>"</i>	<i>24.9</i>		<i>98.2</i>	<i>50-150</i>			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 B2E1623 - EPA 3580

LCS (B2E1623-BS1)

Prepared: 05/16/2022 Analyzed: 05/16/2022

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
<i>Surrogate: o-Terphenyl</i>	<i>50</i>		<i>"</i>	<i>49.8</i>		<i>99.7</i>	<i>50-150</i>			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 B2E1623 - EPA 3580

Matrix Spike (B2E1623-MS1)	Source: Y205402-01			Prepared: 05/16/2022 Analyzed: 05/16/2022						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	992	200	"	1000	ND	99.2	70-130			
<i>Surrogate: o-Terphenyl</i>	<i>47</i>		<i>"</i>	<i>49.8</i>		<i>95.0</i>	<i>50-150</i>			

Origins Laboratory, Inc.



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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 B2E1623 - EPA 3580										
<b>Matrix Spike Dup (B2E1623-MSD1)</b>		<b>Source: Y205402-01</b>			Prepared: 05/16/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	977	50.0	mg/kg	1000	ND	97.7	70-130	3.24	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	5.17	35	
<i>Surrogate: o-Terphenyl</i>	45		"	49.8		90.4	50-150			

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 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 B2E1626 - EPA 5030 (soil)

Blank (B2E1626-BLK1)

Prepared: 05/16/2022 Analyzed: 05/16/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.8		70-130			

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 B2E1626 - EPA 5030 (soil)

**LCS (B2E1626-BS1)**

Prepared: 05/16/2022 Analyzed: 05/16/2022

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Naphthalene	0.103	0.0100	"	0.100		103	70-130			
Toluene	0.0998	0.00200	"	0.100		99.8	70-130			
o-Xylene	0.0991	0.00200	"	0.100		99.1	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.14</i>		<i>"</i>	<i>0.125</i>		<i>108</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.4</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.2</i>	<i>70-130</i>			

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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 B2E1626 - EPA 5030 (soil)

Matrix Spike (B2E1626-MS1)	Source: Y205402-01			Prepared: 05/16/2022 Analyzed: 05/16/2022						
1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100	ND	96.9	70-130			
1,3,5-Trimethylbenzene	0.0971	0.00200	"	0.100	ND	97.1	70-130			
Benzene	0.0978	0.00200	"	0.100	ND	97.8	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
Naphthalene	0.0951	0.0100	"	0.100	0.000640	94.5	70-130			
Toluene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
o-Xylene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 B2E1626 - EPA 5030 (soil)

Matrix Spike Dup (B2E1626-MSD1)	Source: Y205402-01			Prepared: 05/16/2022 Analyzed: 05/16/2022						
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130	2.89	20	
1,3,5-Trimethylbenzene	0.0988	0.00200	"	0.100	ND	98.8	70-130	1.73	20	
Benzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	2.04	20	
Ethylbenzene	0.0964	0.00200	"	0.100	ND	96.4	70-130	2.10	20	
Naphthalene	0.0997	0.0100	"	0.100	0.000640	99.0	70-130	4.70	20	
Toluene	0.0960	0.00200	"	0.100	ND	96.0	70-130	0.459	20	
o-Xylene	0.0961	0.00200	"	0.100	ND	96.1	70-130	2.64	20	
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130	1.99	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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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**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 B2E1709 - Default Prep Metals**

**Blank (B2E1709-BLK1)**

Prepared: 05/17/2022 Analyzed: 05/18/2022

Boron	ND	0.100	mg/L							U
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**Duplicate (B2E1709-DUP1)**

Source: Y205378-02

Prepared: 05/17/2022 Analyzed: 05/18/2022

Boron	ND	0.0977	mg/L		ND				50	U
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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**Saturated Paste - 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 B2E1708 - NO PREP**

**Blank (B2E1708-BLK1)**

Prepared: 05/17/2022 Analyzed: 05/18/2022

Specific Conductance (EC)	ND	0.0300	mmhos/cm							
pH	0.00		pH Units							

**Duplicate (B2E1708-DUP1)**

Source: Y205376-01

Prepared: 05/17/2022 Analyzed: 05/18/2022

Specific Conductance (EC)	0.512	0.0300	mmhos/cm		0.447			13.4	25	
pH	8.19		pH Units		8.16			0.367	25	

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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

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 L617551 - 3550B

MSD (L 95740-MSD-L617551)	Source: 95740			Prepared: 05/23/2022 Analyzed: 05/24/2022						
Benzo(a)anthracene	0.11	0.000493	mg/Kg	0.163	95740	67.4	30-130	16.6	30	
Fluorene	0.108	0.000286	"	0.163	95740	66.2	30-130	10.5	30	
Fluoranthene	0.128	0.000394	"	0.163	0.000736	78	30-130	13.1	30	
Dibenz(a,h)anthracene	0.104	0.000614	"	0.163	95740	63.8	30-130	34.2	30	
Chrysene	0.0981	0.000624	"	0.163	95740	60.1	30-130	14.9	30	
Benzo(k)fluoranthene	0.0872	0.000437	"	0.163	95740	53.4	30-130	20.3	30	
Benzo(a)pyrene	0.109	0.000468	"	0.163	95740	66.8	30-130	15.2	30	
Acenaphthene	0.113	0.000304	"	0.163	95740	69.3	30-130	9.2	30	
Anthracene	0.117	0.000334	"	0.163	95740	71.7	30-130	14.2	30	
2-Methylnaphthalene	0.0874	0.000645	"	0.163	95740	53.6	30-130	9.6	30	
1-Methylnaphthalene	0.0955	0.000364	"	0.163	95740	58.5	30-130	9.4	30	
Indeno(1,2,3-cd)pyrene	0.0972	0.000627	"	0.163	95740	59.6	30-130	48.2	30	
Benzo(b)fluoranthene	0.0947	0.000585	"	0.163	95740	58	30-130	17.6	30	
Pyrene	0.124	0.000643	"	0.163	95740	76	30-130	14.2	30	
Naphthalene	0.0916	0.000484	"	0.163	95740	56.1	30-130	11.7	30	
Surrogate: 2-Fluorobiphenyl	62.8		"	0.326	213	62.8	33-115			
Surrogate: Nitrobenzene-d5	54.6		"	0.326	223	54.6	29-110			
Surrogate: 4-Terphenyl-d14	82.5		"	0.326	269	82.5	33-122			

MS (L 95740-MS-L617551)	Source: 95740			Prepared: 05/23/2022 Analyzed: 05/24/2022						
Chrysene	0.114	0.000624	mg/Kg	0.164	95740	69.5	30-130			
Fluoranthene	0.146	0.000394	"	0.164	0.000736	88.5	30-130			
Fluorene	0.12	0.000286	"	0.164	95740	73.1	30-130			
Indeno(1,2,3-cd)pyrene	0.159	0.000627	"	0.164	95740	96.9	30-130			
Naphthalene	0.103	0.000484	"	0.164	95740	62.8	30-130			
Pyrene	0.143	0.000643	"	0.164	95740	87.1	30-130			
Dibenz(a,h)anthracene	0.147	0.000614	"	0.164	95740	89.6	30-130			

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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

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 L617551 - 3550B

MS (L 95740-MS-L617551)	Source: 95740			Prepared: 05/23/2022 Analyzed: 05/24/2022						
Benzo(k)fluoranthene	0.107	0.000437	mg/Kg	0.164	95740	65.2	30-130			
Acenaphthene	0.124	0.000304	"	0.164	95740	75.6	30-130			
Benzo(a)pyrene	0.127	0.000468	"	0.164	95740	77.4	30-130			
1-Methylnaphthalene	0.105	0.000364	"	0.164	95740	64	30-130			
Benzo(a)anthracene	0.13	0.000493	"	0.164	95740	79.2	30-130			
Anthracene	0.135	0.000334	"	0.164	95740	82.3	30-130			
Benzo(b)fluoranthene	0.113	0.000585	"	0.164	95740	68.9	30-130			
2-Methylnaphthalene	0.0963	0.000645	"	0.164	95740	58.7	30-130			
Surrogate: Nitrobenzene-d5	64.6		"	0.328	223	64.6	29-110			
Surrogate: 2-Fluorobiphenyl	70.1		"	0.328	213	70.1	33-115			
Surrogate: 4-Terphenyl-d14	97.5		"	0.328	269	97.5	33-122			

LCS (LCS-L617551)	Prepared: 05/23/2022 Analyzed: 05/24/2022									
Benzo(a)anthracene	0.117	0.000493	mg/Kg	0.167		70	30-130			
Anthracene	0.13	0.000334	"	0.167		77.8	30-130			
1-Methylnaphthalene	0.104	0.000364	"	0.167		62.2	30-130			
2-Methylnaphthalene	0.0954	0.000645	"	0.167		57.1	30-130			
Benzo(a)pyrene	0.115	0.000468	"	0.167		68.8	30-130			
Naphthalene	0.1	0.000484	"	0.167		59.8	30-130			
Acenaphthene	0.125	0.000304	"	0.167		74.8	30-130			
Pyrene	0.139	0.000643	"	0.167		83.2	30-130			
Benzo(k)fluoranthene	0.105	0.000437	"	0.167		62.8	30-130			
Chrysene	0.111	0.000624	"	0.167		66.4	30-130			
Dibenz(a,h)anthracene	0.107	0.000614	"	0.167		64	30-130			
Fluoranthene	0.14	0.000394	"	0.167		83.8	30-130			
Indeno(1,2,3-cd)pyrene	0.115	0.000627	"	0.167		68.8	30-130			
Benzo(b)fluoranthene	0.0999	0.000585	"	0.167		59.8	30-130			

Origins Laboratory, Inc.

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 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

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 L617551 - 3550B

LCS (LCS-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Fluorene	0.12	0.000286	mg/Kg	0.167		71.8	30-130			
Surrogate: 4-Terphenyl-d14	99.6		"	0.333		99.6	33-122			
Surrogate: 2-Fluorobiphenyl	79.8		"	0.333		79.8	33-115			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			

LRB (LRB-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	66.9		"	0.333		66.9	33-115			
Surrogate: 4-Terphenyl-d14	81.3		"	0.333		81.3	33-122			
Surrogate: Nitrobenzene-d5	57		"	0.333		57	29-110			

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Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 L617430 - 3050B

MSD (L 94286-MSD-L617430)		Source: 94286			Prepared: 05/20/2022 Analyzed: 05/24/2022					
Lead	16.7	0.031	mg/Kg	2.31	19.7	NR	75-125	13.9	80	*
Zinc	76.2	0.534	"	23.1	67.3	39	75-125	8.3	80	*
Silver	0.567	0.0067	"	0.462	0.183	83	75-125	4.9	80	
Nickel	13.6	0.0633	"	2.31	11.7	82	75-125	6.4	80	
Copper	14.8	0.0806	"	2.31	15.4	NR	75-125	12.6	80	I*
Cadmium	0.807	0.0259	"	0.462	0.466	74	75-125	7.1	80	*
Barium	117	0.042	"	4.62	133	NR	75-125	22	80	*
Arsenic	6.6	0.0855	"	2.31	4.45	93	75-125	2.1	80	
Selenium	4.63	0.103	"	4.62	0.487	90	75-125	4.2	80	
MS (L 94286-MS-L617430)		Source: 94286			Prepared: 05/20/2022 Analyzed: 05/24/2022					
Arsenic	6.46	0.0855	mg/Kg	2.41	4.45	84	75-125			
Barium	146	0.042	"	4.81	133	270	75-125			*
Cadmium	0.867	0.0259	"	0.481	0.466	83	75-125			
Copper	16.8	0.0806	"	2.41	15.4	58	75-125			I*
Lead	19.2	0.031	"	2.41	19.7	NR	75-125			*
Nickel	14.5	0.0633	"	2.41	11.7	116	75-125			
Selenium	4.83	0.103	"	4.81	0.487	90	75-125			
Silver	0.596	0.0067	"	0.481	0.183	86	75-125			
Zinc	82.8	0.534	"	24.1	67.3	64	75-125			*
LCS (LCS-L617430)		Prepared: 05/20/2022 Analyzed: 05/24/2022								
Nickel	2.49	0.0633	mg/Kg	2.5		100	80-120			
Zinc	24.9	0.534	"	25		100	80-120			
Arsenic	2.53	0.0855	"	2.5		101	80-120			
Barium	5.17	0.042	"	5		103	80-120			
Cadmium	0.508	0.0259	"	0.5		102	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*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.*

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 L617430 - 3050B

**LCS (LCS-L617430)**

Prepared: 05/20/2022 Analyzed: 05/24/2022

Copper	2.38	0.0806	mg/Kg	2.5		95	80-120			
Lead	2.5	0.031	"	2.5		100	80-120			
Silver	0.507	0.0067	"	0.5		101	80-120			
Selenium	4.87	0.103	"	5		97	80-120			

**LRB (LRB-L617430)**

Prepared: 05/20/2022 Analyzed: 05/24/2022

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

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: Norris A Unit 2 Tank Battery

**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 L618128 -										
<b>DUP (L 94265-DUP)</b>		<b>Source: 94265</b>			Prepared: Analyzed: 05/25/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		94265		-	0	20	
<b>MS (L 94265-MS)</b>		<b>Source: 94265</b>			Prepared: Analyzed: 05/25/2022					
Chromium, Hexavalent	5.2	0.248	mg/Kg	8.16	94265	64	75-125			*
<b>LCS (LCS)</b>		Prepared: Analyzed: 05/25/2022								
Chromium, Hexavalent	5.98	0.244	mg/Kg	8		75	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 05/25/2022								
Chromium, Hexavalent	0.268	0.5	mg/Kg				-			J

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: [none]  
Project: Norris A Unit 2 Tank Battery

---

### Notes and Definitions

- U Sample is Non-Detect.
- 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.



Jen Pellegrini For Noelle Doyle Mathis, President

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September 01, 2022

Apex Companies, LLC

Ryan Finley

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - Norris A Unit 2

Project Number - -

Attached are your analytical results for Norris A Unit 2 received by Origins Laboratory, Inc. June 17, 2022. This project is associated with Origins project number Y206444-01.

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

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Ryan Finley  
Project Number: -  
Project: Norris A Unit 2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV-B02@9'	Y206444-01	Soil	June 17, 2022 10:48	06/17/2022 14:40
PWV-W01@5'	Y206444-02	Soil	June 17, 2022 13:18	06/17/2022 14:40
BKG01@4"	Y206444-03	Soil	June 17, 2022 13:20	06/17/2022 14:40

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 12060444

Client: Apex

Client Project ID: Norris A Unit 2

Checklist Completed by: RF

Shipped Via: FD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/12/12

Airbill #: NA

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

Cooler Number/Temperature: 1 12.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T1004

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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.

[Signature]  
 Reviewed by (Project Manager)

6/12/12  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

PWV-B02@9'

6/17/2022 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y206444-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.0989	mg/L	1	B2F2011	06/20/2022	06/21/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	31.3		25.0	mg/kg	1	B2F1717	06/17/2022	06/18/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

*Surrogate: o-Terphenyl*      68.4 %      50-150      "      "      "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1718	06/17/2022	06/17/2022	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*      113 %      70-130      "      "      "

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

PWV-B02@9'

6/17/2022 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y206444-01 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	104 %		70-130			B2F17 18	06/17/2022	06/17/2022	
Surrogate: 4-Bromofluorobenzene	93.7 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	06/21/2022	06/22/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.24		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L622810	06/21/2022	06/24/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00981	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.0196	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	0.00468	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.02	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

PWV-B02@9'

6/17/2022 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y206444-01 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L622810	06/21/2022	06/24/2022	
Indeno(1,2,3-cd)pyrene	0.00562	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	0.0176	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	66.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	6.13			pH Units	1	B2F2115	06/21/2022	06/22/2022	
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**SAR by 20B Saturated Paste**

SAR	5.09			SAR	1	B2F2111	06/21/2022	06/22/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.221		0.00500	mmhos/cm	1	B2F2115	06/21/2022	06/22/2022	
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**Table 915 metals by EPA 6020B**

Arsenic	2.42		0.100	mg/kg	1	B2F2019	06/20/2022	06/20/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

PWV-B02@9'

6/17/2022 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y206444-01 (Soil)

**Table 915 metals by EPA 6020B**

Barium	41.4		10.0	mg/kg	1	B2F2019	06/20/2022	06/20/2022	
Cadmium	ND		0.100	"	"	"	"	"	U
Copper	ND		10.0	"	"	"	"	"	U
Lead	3.82		1.00	"	"	"	"	"	
Nickel	2.88		1.00	"	"	"	"	06/21/2022	
Selenium	ND		0.100	"	"	"	"	06/20/2022	U
Silver	ND		0.100	"	"	"	"	"	U
Zinc	14.0		10.0	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L622883	06/17/2022	06/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

PWV-W01@5'  
 6/17/2022 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y206444-02 (Soil)

**pH in Soil by 9045D**

pH	7.60			pH Units	1	B2F1715	06/17/2022	06/22/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

BKG01@4"  
 6/17/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y206444-03 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.100		0.100	mg/L	1	B2F2011	06/20/2022	06/21/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.23		0.499	meq/L	10	[CALC]	06/21/2022	06/22/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.36			pH Units	1	B2F2115	06/21/2022	06/22/2022	
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**SAR by 20B Saturated Paste**

SAR	0.0722			SAR	1	B2F2111	06/21/2022	06/22/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.561		0.00500	mmhos/cm	1	B2F2115	06/21/2022	06/22/2022	
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**Table 915 metals by EPA 6020B**

Arsenic	1.34		0.100	mg/kg	1	B2F2019	06/20/2022	06/20/2022	
Barium	39.5		10.0	"	"	"	"	"	
Cadmium	ND		0.100	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

BKG01@4"

6/17/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y206444-03 (Soil)

**Table 915 metals by EPA 6020B**

Copper	ND		10.0	mg/kg	1	B2F2019	06/20/2022	06/20/2022	U
Lead	4.52		1.00	"	"	"	"	"	
Nickel	2.32		1.00	"	"	"	"	06/21/2022	
Selenium	ND		0.100	"	"	"	"	06/20/2022	U
Silver	ND		0.100	"	"	"	"	"	U
Zinc	14.9		10.0	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L622883	06/17/2022	06/22/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 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 B2F1717 - EPA 3580										
<b>Blank (B2F1717-BLK1)</b>										
					Prepared: 06/17/2022 Analyzed: 06/18/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
<i>Surrogate: o-Terphenyl</i>	<i>17</i>		<i>"</i>	<i>24.9</i>		<i>66.6</i>	<i>50-150</i>			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 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 B2F1717 - EPA 3580										
LCS (B2F1717-BS1) <span style="float: right;">Prepared: 06/17/2022 Analyzed: 06/18/2022</span>										
Diesel (C10-C28)	800	50.0	mg/kg	1000		80.0	70-130			
Residual Range Organics (C28-C40)	797	200	"	1000		79.7	70-130			
<i>Surrogate: o-Terphenyl</i>	<i>33</i>		<i>"</i>	<i>49.8</i>		<i>67.3</i>	<i>50-150</i>			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 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 B2F1717 - EPA 3580										
LCS Dup (B2F1717-BSD1)					Prepared: 06/17/2022 Analyzed: 06/18/2022					
Diesel (C10-C28)	910	50.0	mg/kg	1000		91.0	70-130	12.9	35	QM-10
Residual Range Organics (C28-C40)	945	200	"	1000		94.5	70-130	17.0	35	QM-10
<i>Surrogate: o-Terphenyl</i>	<i>38</i>		<i>"</i>	<i>49.8</i>		<i>75.7</i>	<i>50-150</i>			<i>QM-10</i>

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 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 B2F1718 - EPA 5030 (soil)										
Blank (B2F1718-BLK1) <span style="float: right;">Prepared: 06/17/2022 Analyzed: 06/17/2022</span>										
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	89.5		70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 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 B2F1718 - EPA 5030 (soil)

LCS (B2F1718-BS1)

Prepared: 06/17/2022 Analyzed: 06/17/2022

1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100		88.7	70-130			
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100		87.8	70-130			
Benzene	0.0902	0.00200	"	0.100		90.2	70-130			
Ethylbenzene	0.0895	0.00200	"	0.100		89.5	70-130			
Naphthalene	0.0893	0.0100	"	0.100		89.3	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.0876	0.00200	"	0.100		87.6	70-130			
m,p-Xylene	0.171	0.00400	"	0.200		85.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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**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 B2F1718 - EPA 5030 (soil)

Matrix Spike (B2F1718-MS1)	Source: Y206443-01			Prepared: 06/17/2022 Analyzed: 06/17/2022						
1,2,4-Trimethylbenzene	0.0972	0.00200	mg/kg	0.100	ND	97.2	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
Benzene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.104	0.0100	"	0.100	0.00126	102	70-130			
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.0986	0.00200	"	0.100	ND	98.6	70-130			
m,p-Xylene	0.192	0.00400	"	0.200	ND	96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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**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 B2F1718 - EPA 5030 (soil)

Matrix Spike Dup (B2F1718-MSD1)	Source: Y206443-01			Prepared: 06/17/2022 Analyzed: 06/17/2022						
1,2,4-Trimethylbenzene	0.0886	0.00200	mg/kg	0.100	ND	88.6	70-130	9.24	20	
1,3,5-Trimethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130	10.3	20	
Benzene	0.0922	0.00200	"	0.100	ND	92.2	70-130	7.48	20	
Ethylbenzene	0.0915	0.00200	"	0.100	ND	91.5	70-130	9.54	20	
Naphthalene	0.102	0.0100	"	0.100	0.00126	101	70-130	1.73	20	
Toluene	0.0921	0.00200	"	0.100	ND	92.1	70-130	8.24	20	
o-Xylene	0.0898	0.00200	"	0.100	ND	89.8	70-130	9.26	20	
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.7	70-130	9.04	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project: Norris A Unit 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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**Metals by SM 3500 Series Methods - 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 B2F2019 - Default Prep Metals**

**Blank (B2F2019-BLK1)**

Prepared: 06/20/2022 Analyzed: 06/20/2022

Arsenic	ND	0.100	mg/kg							U
Barium	ND	10.0	"							U
Cadmium	ND	0.100	"							U
Copper	ND	10.0	"							U
Lead	ND	1.00	"							U
Nickel	ND	1.00	"							U
Selenium	ND	0.100	"							U
Silver	ND	0.100	"							U
Zinc	ND	10.0	"							U

**LCS (B2F2019-BS1)**

Prepared: 06/20/2022 Analyzed: 06/20/2022

Arsenic	5.01	0.100	mg/kg	5.00		100	80-120
Barium	494	10.0	"	500		98.9	80-120
Cadmium	4.80	0.100	"	5.00		96.0	80-120
Copper	49.9	10.0	"	50.0		99.7	80-120
Lead	4.83	1.00	"	5.00		96.6	80-120
Nickel	4.83	1.00	"	5.00		96.6	80-120
Selenium	4.22	0.100	"	5.00		84.5	80-120
Silver	4.75	0.100	"	5.00		95.1	80-120
Zinc	50.5	10.0	"	50.0		101	80-120

**Matrix Spike (B2F2019-MS1)**

Source: Y206444-01

Prepared: 06/20/2022 Analyzed: 06/20/2022

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 Project: Norris A Unit 2

**Metals by SM 3500 Series Methods - 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 B2F2019 - Default Prep Metals

Matrix Spike (B2F2019-MS1)		Source: Y206444-01			Prepared: 06/20/2022 Analyzed: 06/20/2022					
Arsenic	6.30	0.100	mg/kg	4.92	2.42	78.9	75-125			
Barium	531	10.0	"	492	41.4	99.7	75-125			
Cadmium	4.80	0.100	"	4.92	0.0373	96.8	75-125			
Copper	48.8	10.0	"	49.2	3.28	92.7	75-125			
Lead	8.27	1.00	"	4.92	3.82	90.5	75-125			
Nickel	7.12	1.00	"	4.92	2.88	86.4	75-125			
Selenium	4.17	0.100	"	4.92	0.0348	84.2	75-125			
Silver	4.66	0.100	"	4.92	0.0135	94.5	75-125			
Zinc	56.3	10.0	"	49.2	14.0	86.0	75-125			
Matrix Spike Dup (B2F2019-MSD1)		Source: Y206444-01			Prepared: 06/20/2022 Analyzed: 06/20/2022					
Arsenic	6.60	0.100	mg/kg	4.90	2.42	85.4	75-125	4.73	20	
Barium	531	10.0	"	490	41.4	100	75-125	0.0826	20	
Cadmium	4.80	0.100	"	4.90	0.0373	97.3	75-125	0.141	20	
Copper	51.1	10.0	"	49.0	3.28	97.8	75-125	4.57	20	
Lead	8.56	1.00	"	4.90	3.82	96.7	75-125	3.36	20	
Nickel	7.39	1.00	"	4.90	2.88	92.2	75-125	3.69	20	
Selenium	4.06	0.100	"	4.90	0.0348	82.3	75-125	2.68	20	
Silver	4.68	0.100	"	4.90	0.0135	95.4	75-125	0.469	20	
Zinc	59.2	10.0	"	49.0	14.0	92.3	75-125	4.95	20	

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Ryan Finley  
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 Project: Norris A Unit 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
Batch B2F2011 - Default Prep Metals										
Blank (B2F2011-BLK1)					Prepared: 06/20/2022 Analyzed: 06/21/2022					
Boron	ND	0.100	mg/L							U
Duplicate (B2F2011-DUP1)		Source: Y206443-05			Prepared: 06/20/2022 Analyzed: 06/21/2022					
Boron	0.0199	0.0993	mg/L		0.0200			0.698	50	U

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Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 2

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2F1715 - NO PREP</b>										
<b>Blank (B2F1715-BLK1)</b>					Prepared: 06/17/2022 Analyzed: 06/22/2022					
pH	0.00		pH Units							U
<b>Duplicate (B2F1715-DUP1)</b>					Source: Y206455-03 Prepared: 06/17/2022 Analyzed: 06/22/2022					
pH	8.34		pH Units		8.30			0.481	25	
<b>Batch B2F2115 - NO PREP</b>										
<b>Blank (B2F2115-BLK1)</b>					Prepared: 06/21/2022 Analyzed: 06/22/2022					
pH	0.00		pH Units							U
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B2F2115-DUP1)</b>					Source: Y206429-10 Prepared: 06/21/2022 Analyzed: 06/22/2022					
pH	8.05		pH Units		8.06			0.124	25	
Specific Conductance (EC)	4.53	0.00500	mmhos/cm		4.11			9.73	25	

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 Project: Norris A Unit 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 L622810 - 3550B

MSD (L 81173-MSD-L622810)	Source: 81173			Prepared: 06/21/2022 Analyzed: 06/24/2022						
Dibenz(a,h)anthracene	0.154	0.000614	mg/Kg	0.164	<0.000614	93.9	30-130	17.6	30	
Fluoranthene	0.149	0.000394	"	0.164	<0.000394	90.8	30-130	24	30	
Fluorene	0.125	0.000286	"	0.164	<0.000286	76.2	30-130	23.4	30	
Indeno(1,2,3-cd)pyrene	0.142	0.000627	"	0.164	<0.000627	86.5	30-130	21.8	30	
Naphthalene	0.093	0.000484	"	0.164	<0.000484	56.7	30-130	8.9	30	
Pyrene	0.145	0.000643	"	0.164	<0.000643	88.4	30-130	35.7	30	
Chrysene	0.103	0.000624	"	0.164	<0.000624	62.8	30-130	7.9	30	
Benzo(a)pyrene	0.124	0.000468	"	0.164	<0.000468	75.6	30-130	9.2	30	
Benzo(k)fluoranthene	0.0918	0.000437	"	0.164	<0.000437	55.9	30-130	26.8	30	
1-Methylnaphthalene	0.0976	0.000364	"	0.164	<0.000364	59.5	30-130	2	30	
2-Methylnaphthalene	0.102	0.000645	"	0.164	<0.000645	62.1	30-130	14.1	30	
Acenaphthene	0.106	0.000304	"	0.164	<0.000304	64.6	30-130	6.3	30	
Anthracene	0.126	0.000334	"	0.164	<0.000334	76.8	30-130	23.3	30	
Benzo(a)anthracene	0.0948	0.000493	"	0.164	<0.000493	57.8	30-130	1.9	30	
Benzo(b)fluoranthene	0.103	0.000585	"	0.164	<0.000585	62.8	30-130	24	30	
Surrogate: Nitrobenzene-d5	58		"	0.329	236	58	29-110			
Surrogate: 2-Fluorobiphenyl	56.2		"	0.329	180	56.2	33-115			
Surrogate: 4-Terphenyl-d14	93.6		"	0.329	236	93.6	33-122			

MS (L 81173-MS-L622810)	Source: 81173			Prepared: 06/21/2022 Analyzed: 06/24/2022						
Benzo(b)fluoranthene	0.0809	0.000585	mg/Kg	0.165	<0.000585	49	30-130			
Fluoranthene	0.117	0.000394	"	0.165	<0.000394	70.9	30-130			
Fluorene	0.0988	0.000286	"	0.165	<0.000286	59.8	30-130			
Pyrene	0.101	0.000643	"	0.165	<0.000643	61.2	30-130			
Dibenz(a,h)anthracene	0.129	0.000614	"	0.165	<0.000614	78.1	30-130			
Chrysene	0.0951	0.000624	"	0.165	<0.000624	57.6	30-130			
Benzo(k)fluoranthene	0.0701	0.000437	"	0.165	<0.000437	42.4	30-130			

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 Project: Norris A Unit 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 L622810 - 3550B

MS (L 81173-MS-L622810)	Source: 81173			Prepared: 06/21/2022 Analyzed: 06/24/2022						
Naphthalene	0.085	0.000484	mg/Kg	0.165	<0.000484	51.5	30-130			
Indeno(1,2,3-cd)pyrene	0.114	0.000627	"	0.165	<0.000627	69	30-130			
Benzo(a)anthracene	0.093	0.000493	"	0.165	<0.000493	56.3	30-130			
Anthracene	0.0997	0.000334	"	0.165	<0.000334	60.4	30-130			
Acenaphthene	0.113	0.000304	"	0.165	<0.000304	68.4	30-130			
2-Methylnaphthalene	0.0885	0.000645	"	0.165	<0.000645	53.6	30-130			
1-Methylnaphthalene	0.0956	0.000364	"	0.165	<0.000364	57.9	30-130			
Benzo(a)pyrene	0.113	0.000468	"	0.165	<0.000468	68.4	30-130			
Surrogate: Nitrobenzene-d5	62.1		"	0.33	236	62.1	29-110			
Surrogate: 4-Terphenyl-d14	54.5		"	0.33	236	54.5	33-122			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.33	180	61.2	33-115			

LCS (LCS-L622810)	Prepared: 06/21/2022 Analyzed: 06/24/2022									
Benzo(k)fluoranthene	0.102	0.000437	mg/Kg	0.167		61	30-130			
Chrysene	0.101	0.000624	"	0.167		60.4	30-130			
Dibenz(a,h)anthracene	0.143	0.000614	"	0.167		85.6	30-130			
Fluoranthene	0.0771	0.000394	"	0.167		46.1	30-130			
Indeno(1,2,3-cd)pyrene	0.133	0.000627	"	0.167		79.6	30-130			
Benzo(b)fluoranthene	0.106	0.000585	"	0.167		63.4	30-130			
Pyrene	0.0767	0.000643	"	0.167		45.9	30-130			
Fluorene	0.114	0.000286	"	0.167		68.2	30-130			
Benzo(a)anthracene	0.102	0.000493	"	0.167		61	30-130			
Anthracene	0.108	0.000334	"	0.167		64.6	30-130			
Acenaphthene	0.108	0.000304	"	0.167		64.6	30-130			
2-Methylnaphthalene	0.116	0.000645	"	0.167		69.4	30-130			
1-Methylnaphthalene	0.111	0.000364	"	0.167		66.4	30-130			
Naphthalene	0.108	0.000484	"	0.167		64.6	30-130			

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 Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622810 - 3550B

LCS (LCS-L622810)

Prepared: 06/21/2022 Analyzed: 06/24/2022

Benzo(a)pyrene	0.122	0.000468	mg/Kg	0.167		73	30-130			
Surrogate: Nitrobenzene-d5	79.8		"	0.333		79.8	29-110			
Surrogate: 4-Terphenyl-d14	51		"	0.333		51	33-122			
Surrogate: 2-Fluorobiphenyl	73.8		"	0.333		73.8	33-115			

LRB (LRB-L622810)

Prepared: 06/21/2022 Analyzed: 06/24/2022

Naphthalene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	69		"	0.333		69	33-122			
Surrogate: Nitrobenzene-d5	52.2		"	0.333		52.2	29-110			
Surrogate: 2-Fluorobiphenyl	52.2		"	0.333		52.2	33-115			

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.

Jen Pellegrini For Jordan A. Bynon, Project Manager

Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Ryan Finley  
 Project Number: -  
 Project: Norris A Unit 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 L622883 -										
<b>DUP (L 81173-DUP)</b>		<b>Source: 81173</b>			Prepared: Analyzed: 06/22/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
<b>MS (L 81173-MS)</b>		<b>Source: 81173</b>			Prepared: Analyzed: 06/22/2022					
Chromium, Hexavalent	6.44	0.248	mg/Kg	8.15	<0.248	79	75-125			
<b>MSD (L 81173-MSD)</b>		<b>Source: 81173</b>			Prepared: Analyzed: 06/22/2022					
Chromium, Hexavalent	616	24.4	mg/Kg	633	<24.4	97	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 06/22/2022					
Chromium, Hexavalent	6.52	0.244	mg/Kg	8		82	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 06/22/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Ryan Finley  
Project Number: -  
Project: Norris A Unit 2

---

**Notes and Definitions**

U Sample is Non-Detect.

QM-10 LCS/LCSD were analyzed in place of MS/MSD.

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.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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May 27, 2022

Apex Companies, LLC  
Maggie Graham  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Project Name - CPR - Norris 14-32

Project Number - [none]

Attached are your analytical results for CPR - Norris 14-32 received by Origins Laboratory, Inc. May 16, 2022. This project is associated with Origins project number Y205410-01.

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

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: [none]  
Project: CPR - Norris 14-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Welle01/FL01@2.75'	Y205410-01	Soil	May 16, 2022 0:00	05/16/2022 16:55
SEP/FL05@2.25	Y205410-02	Soil	May 16, 2022 0:00	05/16/2022 16:55
BKG01@4in	Y205410-03	Soil	May 16, 2022 0:00	05/16/2022 16:55

Chain of Custody Modification Request

On 5/19/2022, Rochelle Carlisle from Apex contacted Jennifer Pellegrini via email regarding Y205410 requesting that sample ID FL01@2.75ft be changed to Welle01/FL01@2.75'.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 5/19/2022.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 420540

Client: Apex

Client Project ID: NORRIS 14-32

Checklist Completed by: AKH

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/16/12

Airbill #: NA

Matrix(s) Received: (Check all that apply): 1 Soil/Solid          Water          Other:         

Cooler Number/Temperature: 1 11.3 °C          °C          °C (Describe)

Thermometer ID: TC04

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<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"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>SAMPLE</u> <u>SAMPLE TIME MISSING</u>
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

[Signature]  
 Reviewed by (Project Manager)

5/16/12  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

WeIIE01/FL01@2.75'  
 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205410-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.101	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1623	05/16/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	78.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/17/2022	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

<i>Surrogate: 1,2-Dichloroethane-d4</i>	121 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

WeIIE01/FL01@2.75'  
 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y205410-01 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.1 %		70-130			B2E16 26	05/16/2022	05/17/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	49.7		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	13.3		0.823	"	"	"	"	"	
Sodium	72.5		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000428	0.000394	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

WellE01/FL01@2.75'  
 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205410-01 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	76.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	91.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.4 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.90			pH Units	1	B2E1710	05/17/2022	05/19/2022	
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**SAR by 20B Saturated Paste**

SAR	12.9			SAR	1	B2E1707	05/17/2022	05/18/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	5.54		0.00500	mmhos/cm	1	B2E1710	05/17/2022	05/19/2022	
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**Total Metals by 6020B**

Arsenic	1.19	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

WeIIE01/FL01@2.75'  
 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205410-01 (Soil)

**Total Metals by 6020B**

Barium	61.9	0.042	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Cadmium	0.0812	0.0259	0.25	"	"	"	"	"	J
Copper	7.45	0.0806	0.25	"	"	"	"	"	
Lead	60.2	0.031	0.25	"	"	"	"	"	
Nickel	2.82	0.0633	0.25	"	"	"	"	"	
Selenium	0.194	0.103	0.25	"	"	"	"	"	J
Silver	0.0103	0.0067	0.25	"	"	"	"	"	J
Zinc	21.5	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

SEP/FL05@2.25  
 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205410-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.0985	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1623	05/16/2022	05/16/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	79.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/17/2022	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

<i>Surrogate: 1,2-Dichloroethane-d4</i>	122 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

SEP/FL05@2.25

5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y205410-02 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.5 %		70-130			B2E16 26	05/16/2022	05/17/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.89		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	2.53		0.823	"	"	"	"	"	
Sodium	4.03		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000894	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

SEP/FL05@2.25  
 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205410-02 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	0.00118	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	69.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	89.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.3 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.32			pH Units	1	B2E1708	05/17/2022	05/18/2022	
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**SAR by 20B Saturated Paste**

SAR	2.45			SAR	1	B2E1707	05/17/2022	05/18/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.942		0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022	
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**Total Metals by 6020B**

Arsenic	0.984	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

SEP/FL05@2.25

5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Waypoint Analytical, Inc.**  
 Y205410-02 (Soil)

**Total Metals by 6020B**

Barium	37.8	0.042	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Cadmium	0.0723	0.0259	0.25	"	"	"	"	"	J
Copper	3.16	0.0806	0.25	"	"	"	"	"	
Lead	4.54	0.031	0.25	"	"	"	"	"	
Nickel	3.25	0.0633	0.25	"	"	"	"	"	
Selenium	0.257	0.103	0.25	"	"	"	"	"	
Silver	0.0165	0.0067	0.25	"	"	"	"	"	J
Zinc	15.5	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

BKG01@4in  
 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205410-03 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.0995	mg/L	1	B2E1709	05/17/2022	05/18/2022	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1623	05/16/2022	05/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 35.2 % 50-150 " " " S-DUP

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1626	05/16/2022	05/17/2022	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 123 % 70-130 " " "

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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

BKG01@4in

5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y205410-03 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.4 %		70-130			B2E16 26	05/16/2022	05/17/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.39		0.499	meq/L	10	[CALC]	05/17/2022	05/18/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

BKG01@4in  
 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205410-03 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L617551	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	81 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.12			pH Units	1	B2E1708	05/17/2022	05/18/2022	
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**SAR by 20B Saturated Paste**

SAR	0.133			SAR	1	B2E1707	05/17/2022	05/18/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.594		0.00500	mmhos/cm	1	B2E1708	05/17/2022	05/18/2022	
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**Total Metals by 6020B**

Arsenic	0.745	0.0855	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
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Origins Laboratory, Inc.



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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

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 5/16/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
 Y205410-03 (Soil)

**Total Metals by 6020B**

Barium	23.9	0.042	0.25	mg/Kg	5	L617430	05/20/2022	05/24/2022	
Cadmium	0.0756	0.0259	0.25	"	"	"	"	"	J
Copper	2.68	0.0806	0.25	"	"	"	"	"	
Lead	4.58	0.031	0.25	"	"	"	"	"	
Nickel	2.15	0.0633	0.25	"	"	"	"	"	
Selenium	0.18	0.103	0.25	"	"	"	"	"	J
Silver	0.0115	0.0067	0.25	"	"	"	"	"	J
Zinc	13.7	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	2	L618128	05/16/2022	05/25/2022	
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Origins Laboratory, Inc.



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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 B2E1623 - EPA 3580										
Blank (B2E1623-BLK1) <span style="float: right;">Prepared: 05/16/2022 Analyzed: 05/16/2022</span>										
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
<i>Surrogate: o-Terphenyl</i>	<i>24</i>		<i>"</i>	<i>24.9</i>		<i>98.2</i>	<i>50-150</i>			

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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 B2E1623 - EPA 3580										
LCS (B2E1623-BS1) <span style="float: right;">Prepared: 05/16/2022 Analyzed: 05/16/2022</span>										
Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
<i>Surrogate: o-Terphenyl</i>	<i>50</i>		<i>"</i>	<i>49.8</i>		<i>99.7</i>	<i>50-150</i>			

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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 B2E1623 - EPA 3580										
<b>Matrix Spike (B2E1623-MS1)</b>		<b>Source: Y205402-01</b>			Prepared: 05/16/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	992	200	"	1000	ND	99.2	70-130			
<i>Surrogate: o-Terphenyl</i>	<i>47</i>		<i>"</i>	<i>49.8</i>		<i>95.0</i>	<i>50-150</i>			

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 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 B2E1623 - EPA 3580										
<b>Matrix Spike Dup (B2E1623-MSD1)</b>		<b>Source: Y205402-01</b>			Prepared: 05/16/2022 Analyzed: 05/16/2022					
Diesel (C10-C28)	977	50.0	mg/kg	1000	ND	97.7	70-130	3.24	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	5.17	35	
<i>Surrogate: o-Terphenyl</i>	45		"	49.8		90.4	50-150			

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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 B2E1626 - EPA 5030 (soil)

Blank (B2E1626-BLK1)

Prepared: 05/16/2022 Analyzed: 05/16/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.8		70-130			

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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 B2E1626 - EPA 5030 (soil)

**LCS (B2E1626-BS1)**

Prepared: 05/16/2022 Analyzed: 05/16/2022

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Naphthalene	0.103	0.0100	"	0.100		103	70-130			
Toluene	0.0998	0.00200	"	0.100		99.8	70-130			
o-Xylene	0.0991	0.00200	"	0.100		99.1	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.14</i>		<i>"</i>	<i>0.125</i>		<i>108</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.4</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.2</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 B2E1626 - EPA 5030 (soil)

Matrix Spike (B2E1626-MS1)	Source: Y205402-01			Prepared: 05/16/2022 Analyzed: 05/16/2022						
1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100	ND	96.9	70-130			
1,3,5-Trimethylbenzene	0.0971	0.00200	"	0.100	ND	97.1	70-130			
Benzene	0.0978	0.00200	"	0.100	ND	97.8	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
Naphthalene	0.0951	0.0100	"	0.100	0.000640	94.5	70-130			
Toluene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
o-Xylene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 B2E1626 - EPA 5030 (soil)

Matrix Spike Dup (B2E1626-MSD1)	Source: Y205402-01			Prepared: 05/16/2022 Analyzed: 05/16/2022						
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130	2.89	20	
1,3,5-Trimethylbenzene	0.0988	0.00200	"	0.100	ND	98.8	70-130	1.73	20	
Benzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	2.04	20	
Ethylbenzene	0.0964	0.00200	"	0.100	ND	96.4	70-130	2.10	20	
Naphthalene	0.0997	0.0100	"	0.100	0.000640	99.0	70-130	4.70	20	
Toluene	0.0960	0.00200	"	0.100	ND	96.0	70-130	0.459	20	
o-Xylene	0.0961	0.00200	"	0.100	ND	96.1	70-130	2.64	20	
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130	1.99	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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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**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 B2E1709 - Default Prep Metals**

**Blank (B2E1709-BLK1)**

Prepared: 05/17/2022 Analyzed: 05/18/2022

Boron	ND	0.100	mg/L							U
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**Duplicate (B2E1709-DUP1)**

Source: Y205378-02

Prepared: 05/17/2022 Analyzed: 05/18/2022

Boron	ND	0.0977	mg/L		ND				50	U
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Jen Pellegrini, Project Manager

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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**Saturated Paste - 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 B2E1708 - NO PREP**

**Blank (B2E1708-BLK1)**

Prepared: 05/17/2022 Analyzed: 05/18/2022

Specific Conductance (EC) ND 0.0300 mmhos/cm  
 pH 0.00 pH Units

**Duplicate (B2E1708-DUP1)**

Source: Y205376-01

Prepared: 05/17/2022 Analyzed: 05/18/2022

Specific Conductance (EC) 0.512 0.0300 mmhos/cm 0.447 13.4 25  
 pH 8.19 pH Units 8.16 0.367 25

**Batch B2E1710 - NO PREP**

**Blank (B2E1710-BLK1)**

Prepared: 05/17/2022 Analyzed: 05/19/2022

pH 0.00 pH Units  
 Specific Conductance (EC) ND 0.0300 mmhos/cm

**Duplicate (B2E1710-DUP1)**

Source: Y205046-03

Prepared: 05/17/2022 Analyzed: 05/19/2022

Specific Conductance (EC) 0.275 0.0300 mmhos/cm 0.299 8.28 25  
 pH 8.44 pH Units 8.46 0.237 25

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

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 L617551 - 3550B

MSD (L 95740-MSD-L617551)	Source: 95740			Prepared: 05/23/2022 Analyzed: 05/24/2022						
Fluorene	0.108	0.000286	mg/Kg	0.163	95740	66.2	30-130	10.5	30	
Acenaphthene	0.113	0.000304	"	0.163	95740	69.3	30-130	9.2	30	
Pyrene	0.124	0.000643	"	0.163	95740	76	30-130	14.2	30	
Naphthalene	0.0916	0.000484	"	0.163	95740	56.1	30-130	11.7	30	
Indeno(1,2,3-cd)pyrene	0.0972	0.000627	"	0.163	95740	59.6	30-130	48.2	30	
1-Methylnaphthalene	0.0955	0.000364	"	0.163	95740	58.5	30-130	9.4	30	
Benzo(a)anthracene	0.11	0.000493	"	0.163	95740	67.4	30-130	16.6	30	
2-Methylnaphthalene	0.0874	0.000645	"	0.163	95740	53.6	30-130	9.6	30	
Fluoranthene	0.128	0.000394	"	0.163	0.000736	78	30-130	13.1	30	
Anthracene	0.117	0.000334	"	0.163	95740	71.7	30-130	14.2	30	
Benzo(a)pyrene	0.109	0.000468	"	0.163	95740	66.8	30-130	15.2	30	
Benzo(b)fluoranthene	0.0947	0.000585	"	0.163	95740	58	30-130	17.6	30	
Benzo(k)fluoranthene	0.0872	0.000437	"	0.163	95740	53.4	30-130	20.3	30	
Chrysene	0.0981	0.000624	"	0.163	95740	60.1	30-130	14.9	30	
Dibenz(a,h)anthracene	0.104	0.000614	"	0.163	95740	63.8	30-130	34.2	30	
Surrogate: Nitrobenzene-d5	54.6		"	0.326	223	54.6	29-110			
Surrogate: 4-Terphenyl-d14	82.5		"	0.326	269	82.5	33-122			
Surrogate: 2-Fluorobiphenyl	62.8		"	0.326	213	62.8	33-115			

MS (L 95740-MS-L617551)	Source: 95740			Prepared: 05/23/2022 Analyzed: 05/24/2022						
Acenaphthene	0.124	0.000304	mg/Kg	0.164	95740	75.6	30-130			
1-Methylnaphthalene	0.105	0.000364	"	0.164	95740	64	30-130			
2-Methylnaphthalene	0.0963	0.000645	"	0.164	95740	58.7	30-130			
Anthracene	0.135	0.000334	"	0.164	95740	82.3	30-130			
Pyrene	0.143	0.000643	"	0.164	95740	87.1	30-130			
Naphthalene	0.103	0.000484	"	0.164	95740	62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.159	0.000627	"	0.164	95740	96.9	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

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 L617551 - 3550B

MS (L 95740-MS-L617551)	Source: 95740			Prepared: 05/23/2022 Analyzed: 05/24/2022						
Fluorene	0.12	0.000286	mg/Kg	0.164	95740	73.1	30-130			
Fluoranthene	0.146	0.000394	"	0.164	0.000736	88.5	30-130			
Chrysene	0.114	0.000624	"	0.164	95740	69.5	30-130			
Benzo(k)fluoranthene	0.107	0.000437	"	0.164	95740	65.2	30-130			
Benzo(b)fluoranthene	0.113	0.000585	"	0.164	95740	68.9	30-130			
Benzo(a)pyrene	0.127	0.000468	"	0.164	95740	77.4	30-130			
Benzo(a)anthracene	0.13	0.000493	"	0.164	95740	79.2	30-130			
Dibenz(a,h)anthracene	0.147	0.000614	"	0.164	95740	89.6	30-130			
Surrogate: 2-Fluorobiphenyl	70.1		"	0.328	213	70.1	33-115			
Surrogate: 4-Terphenyl-d14	97.5		"	0.328	269	97.5	33-122			
Surrogate: Nitrobenzene-d5	64.6		"	0.328	223	64.6	29-110			

LCS (LCS-L617551)	Prepared: 05/23/2022 Analyzed: 05/24/2022									
Naphthalene	0.1	0.000484	mg/Kg	0.167		59.8	30-130			
Anthracene	0.13	0.000334	"	0.167		77.8	30-130			
Benzo(a)anthracene	0.117	0.000493	"	0.167		70	30-130			
Benzo(a)pyrene	0.115	0.000468	"	0.167		68.8	30-130			
Benzo(b)fluoranthene	0.0999	0.000585	"	0.167		59.8	30-130			
Benzo(k)fluoranthene	0.105	0.000437	"	0.167		62.8	30-130			
Chrysene	0.111	0.000624	"	0.167		66.4	30-130			
Dibenz(a,h)anthracene	0.107	0.000614	"	0.167		64	30-130			
Pyrene	0.139	0.000643	"	0.167		83.2	30-130			
Fluorene	0.12	0.000286	"	0.167		71.8	30-130			
Acenaphthene	0.125	0.000304	"	0.167		74.8	30-130			
Indeno(1,2,3-cd)pyrene	0.115	0.000627	"	0.167		68.8	30-130			
Fluoranthene	0.14	0.000394	"	0.167		83.8	30-130			
2-Methylnaphthalene	0.0954	0.000645	"	0.167		57.1	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
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 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

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 L617551 - 3550B

LCS (LCS-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

1-Methylnaphthalene	0.104	0.000364	mg/Kg	0.167		62.2	30-130			
Surrogate: 2-Fluorobiphenyl	79.8		"	0.333		79.8	33-115			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			
Surrogate: 4-Terphenyl-d14	99.6		"	0.333		99.6	33-122			

LRB (LRB-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	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	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	66.9		"	0.333		66.9	33-115			
Surrogate: 4-Terphenyl-d14	81.3		"	0.333		81.3	33-122			
Surrogate: Nitrobenzene-d5	57		"	0.333		57	29-110			

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 L617430 - 3050B

MSD (L 94286-MSD-L617430)		Source: 94286			Prepared: 05/20/2022 Analyzed: 05/24/2022					
Lead	16.7	0.031	mg/Kg	2.31	19.7	NR	75-125	13.9	80	*
Selenium	4.63	0.103	"	4.62	0.487	90	75-125	4.2	80	
Arsenic	6.6	0.0855	"	2.31	4.45	93	75-125	2.1	80	
Zinc	76.2	0.534	"	23.1	67.3	39	75-125	8.3	80	*
Barium	117	0.042	"	4.62	133	NR	75-125	22	80	*
Cadmium	0.807	0.0259	"	0.462	0.466	74	75-125	7.1	80	*
Copper	14.8	0.0806	"	2.31	15.4	NR	75-125	12.6	80	I*
Silver	0.567	0.0067	"	0.462	0.183	83	75-125	4.9	80	
Nickel	13.6	0.0633	"	2.31	11.7	82	75-125	6.4	80	

MS (L 94286-MS-L617430)		Source: 94286			Prepared: 05/20/2022 Analyzed: 05/24/2022					
Nickel	14.5	0.0633	mg/Kg	2.41	11.7	116	75-125			
Zinc	82.8	0.534	"	24.1	67.3	64	75-125			*
Lead	19.2	0.031	"	2.41	19.7	NR	75-125			*
Arsenic	6.46	0.0855	"	2.41	4.45	84	75-125			
Silver	0.596	0.0067	"	0.481	0.183	86	75-125			
Copper	16.8	0.0806	"	2.41	15.4	58	75-125			I*
Cadmium	0.867	0.0259	"	0.481	0.466	83	75-125			
Barium	146	0.042	"	4.81	133	270	75-125			*
Selenium	4.83	0.103	"	4.81	0.487	90	75-125			

LCS (LCS-L617430)		Prepared: 05/20/2022 Analyzed: 05/24/2022								
Cadmium	0.508	0.0259	mg/Kg	0.5		102	80-120			
Zinc	24.9	0.534	"	25		100	80-120			
Silver	0.507	0.0067	"	0.5		101	80-120			
Selenium	4.87	0.103	"	5		97	80-120			
Nickel	2.49	0.0633	"	2.5		100	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 L617430 - 3050B

**LCS (LCS-L617430)**

Prepared: 05/20/2022 Analyzed: 05/24/2022

Copper	2.38	0.0806	mg/Kg	2.5		95	80-120			
Barium	5.17	0.042	"	5		103	80-120			
Arsenic	2.53	0.0855	"	2.5		101	80-120			
Lead	2.5	0.031	"	2.5		100	80-120			

**LRB (LRB-L617430)**

Prepared: 05/20/2022 Analyzed: 05/24/2022

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

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Apex Companies, LLC  
 4150 Darley Avenue, Suite 1  
 Boulder CO 80305

Maggie Graham  
 Project Number: [none]  
 Project: CPR - Norris 14-32

**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 L618128 -										
<b>DUP (L 94265-DUP)</b>		<b>Source: Y205410-01</b>			Prepared: Analyzed: 05/25/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		94265		-	0	20	
<b>MS (L 94265-MS)</b>		<b>Source: Y205410-01</b>			Prepared: Analyzed: 05/25/2022					
Chromium, Hexavalent	5.2	0.248	mg/Kg	8.16	94265	64	75-125			*
<b>LCS (LCS)</b>		Prepared: Analyzed: 05/25/2022								
Chromium, Hexavalent	5.98	0.244	mg/Kg	8		75	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 05/25/2022								
Chromium, Hexavalent	0.268	0.5	mg/Kg				-			J

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: [none]  
Project: CPR - Norris 14-32

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**Notes and Definitions**

- U Sample is Non-Detect.
- S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.
- 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.

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Jen Pellegrini, Project Manager

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