

February 07, 2024

Verdad Resources

Dean Wagoner

1125 17th St Suite 550

Denver CO 80202

Project Name - Peggy

Project Number - 2525

Attached are your analytical results for Peggy received by Origins Laboratory, Inc. January 24, 2024. This project is associated with Origins project number Y401561-01.

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



Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample #1	Y401561-01	Soil	January 23, 2024 9:30	01/24/2024 11:05
Sample #2	Y401561-02	Soil	January 23, 2024 9:35	01/24/2024 11:05
Sample #3	Y401561-03	Soil	January 23, 2024 9:40	01/24/2024 11:05
Sample #4	Y401561-04	Soil	January 23, 2024 9:45	01/24/2024 11:05
Sample #5	Y401561-05	Soil	January 23, 2024 9:50	01/24/2024 11:05
Sample #6	Y401561-06	Soil	January 23, 2024 9:55	01/24/2024 11:05
Sample #7	Y401561-07	Soil	January 23, 2024 10:00	01/24/2024 11:05
Sample #8	Y401561-08	Soil	January 23, 2024 10:05	01/24/2024 11:05
Sample #9	Y401561-09	Soil	January 23, 2024 10:10	01/24/2024 11:05
Sample #10	Y401561-10	Soil	January 23, 2024 10:15	01/24/2024 11:05
Sample #11	Y401561-11	Soil	January 23, 2024 10:20	01/24/2024 11:05
Sample #12	Y401561-12	Soil	January 23, 2024 10:25	01/24/2024 11:05
Background	Y401561-13	Soil	January 23, 2024 10:30	01/24/2024 11:05

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y401561

Client: Verdad

Client Project ID: Peggy

Checklist Completed by: ELB

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

Date/time completed: 1/24/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 10.5 °C / 1 °C / 1 °C (Describe) / 1 °C

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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>S-ZKS</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: HO (Project Manager)

Date/Time Reviewed: 1-25-24

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #1
1/23/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.17		0.0986	mg/L	1	B4A2914	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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			"	"	"	
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Verdad Resources
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #1
1/23/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.7 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.27	0.499	meq/L	10	[CALC]		01/26/2024	01/29/2024	
Magnesium	1.80	0.823	"	"	"	"	"	"	
Sodium	13.0	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2521		01/25/2024	01/30/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	0.008	0.005	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U

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 Project: Peggy

Sample #1
1/23/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	6.46		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.08		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #1

1/23/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.57	0.0927	0.0927	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
Barium	241	9.27	9.27	"	"	"	"	"	
Cadmium	0.190	0.0927	0.0927	"	"	"	"	"	
Copper	10.7	9.27	9.27	"	"	"	"	"	
Lead	13.6	0.927	0.927	"	"	"	"	"	
Nickel	8.10	0.927	0.927	"	"	"	"	"	
Selenium	0.154	0.0927	0.0927	"	"	"	"	"	
Silver	ND	0.0927	0.0927	"	"	"	"	"	
Zinc	40.9	9.27	9.27	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L729950	01/23/2024	01/30/2024	
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #2
1/23/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.28		0.0987	mg/L	1	B4A2914	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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	115 %		70-130			"	"	"	
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #2
1/23/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.0 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.75	0.499	meq/L	10	[CALC]		01/26/2024	01/29/2024	
Magnesium	2.17	0.823	"	"	"		"	"	
Sodium	19.4	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.007	0.002	mg/kg	1	B4A2521		01/25/2024	01/30/2024	
2-Methylnaphthalene	0.006	0.002	"	"	"		"	"	
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

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 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #2
1/23/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	9.19		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.84		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #2
1/23/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.19	0.0942	0.0942	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
Barium	219	9.42	9.42	"	"	"	"	"	
Cadmium	0.177	0.0942	0.0942	"	"	"	"	"	
Copper	9.60	9.42	9.42	"	"	"	"	"	
Lead	11.5	0.942	0.942	"	"	"	"	"	
Nickel	7.22	0.942	0.942	"	"	"	"	"	
Selenium	0.130	0.0942	0.0942	"	"	"	"	"	
Silver	ND	0.0942	0.0942	"	"	"	"	"	
Zinc	36.2	9.42	9.42	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L729950	01/23/2024	01/30/2024	
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #3
1/23/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.719		0.100	mg/L	1	B4A2914	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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			"	"	"	
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #3
1/23/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.2 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.85		0.499	meq/L	10	[CALC]	01/26/2024	01/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.24		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.007		0.002	mg/kg	1	B4A2521	01/25/2024	01/30/2024	
2-Methylnaphthalene	0.007		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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 Project: Peggy

Sample #3
1/23/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.24			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	3.90		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.08		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #3

1/23/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.10	0.0964	0.0964	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
Barium	219	9.64	9.64	"	"	"	"	"	
Cadmium	0.172	0.0964	0.0964	"	"	"	"	"	
Copper	9.65	9.64	9.64	"	"	"	"	"	
Lead	12.0	0.964	0.964	"	"	"	"	"	
Nickel	6.97	0.964	0.964	"	"	"	"	"	
Selenium	0.126	0.0964	0.0964	"	"	"	"	"	
Silver	ND	0.0964	0.0964	"	"	"	"	"	
Zinc	37.6	9.64	9.64	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L729950	01/23/2024	01/30/2024	
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Verdad Resources
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #4
1/23/2024 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.568		0.101	mg/L	1	B4A2914	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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			"	"	"	
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Verdad Resources
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #4
1/23/2024 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.7 %	70-130	B4A24 22	10	[CALC]	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.53	0.499	meq/L	10	[CALC]	01/26/2024	01/29/2024	
Magnesium	1.39	0.823	"	"	"	"	"	
Sodium	1.85	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.008	0.002	mg/kg	1	B4A2521	01/25/2024	01/30/2024	
2-Methylnaphthalene	0.007	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #4
1/23/2024 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	0.995		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.15		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #4

1/23/2024 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.52	0.0960	mg/kg	10	B4A2420	01/24/2024	01/26/2024
Barium	258	9.60	"	"	"	"	"
Cadmium	0.218	0.0960	"	"	"	"	"
Copper	11.6	9.60	"	"	"	"	"
Lead	14.3	0.960	"	"	"	"	"
Nickel	8.53	0.960	"	"	"	"	"
Selenium	0.172	0.0960	"	"	"	"	"
Silver	ND	0.0960	"	"	"	"	"
Zinc	44.6	9.60	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L729950	01/23/2024	01/30/2024
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Verdad Resources
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #5
1/23/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.723		0.101	mg/L	1	B4A2914	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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	115 %		70-130			"	"	"	
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Verdad Resources
 1125 17th St Suite 550
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #5
1/23/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.6 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.50		0.499	meq/L	10	[CALC]	01/26/2024	01/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	7.52		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.003		0.002	mg/kg	1	B4A2521	01/25/2024	01/30/2024	
2-Methylnaphthalene	0.002		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #5
1/23/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.34			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	5.95		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.32		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #5

1/23/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.57	0.0854	0.0854	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
Barium	269	8.54	8.54	"	"	"	"	"	
Cadmium	0.209	0.0854	0.0854	"	"	"	"	"	
Copper	10.9	8.54	8.54	"	"	"	"	"	
Lead	15.4	0.854	0.854	"	"	"	"	"	
Nickel	7.97	0.854	0.854	"	"	"	"	"	
Selenium	0.140	0.0854	0.0854	"	"	"	"	"	
Silver	ND	0.0854	0.0854	"	"	"	"	"	
Zinc	42.5	8.54	8.54	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L729950	01/23/2024	01/30/2024	
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #6
1/23/2024 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.674		0.0985	mg/L	1	B4A2914	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	37.5		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	73.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00282		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	
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	0.00202		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.314		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.1 %		70-130			"	"	"	

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 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #6
1/23/2024 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	105 %	70-130				B4A24 22	01/24/2024	01/24/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.28	0.499	meq/L	10	[CALC]		01/26/2024	01/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	3.00	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.053	0.002	mg/kg	1	B4A2521		01/25/2024	01/30/2024	
2-Methylnaphthalene	0.045	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #6
1/23/2024 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-06 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Naphthalene	0.009		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	2.51		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.810		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.85		0.0906	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #6
1/23/2024 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-06 (Soil)

Table 915 metals by EPA 6020B

Barium	256		9.06	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
Cadmium	0.244		0.0906	"	"	"	"	"	
Copper	12.7		9.06	"	"	"	"	"	
Lead	14.5		0.906	"	"	"	"	"	
Nickel	9.43		0.906	"	"	"	"	"	
Selenium	0.182		0.0906	"	"	"	"	"	
Silver	ND		0.0906	"	"	"	"	"	
Zinc	48.5		9.06	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L729950	01/23/2024	01/30/2024	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #7

1/23/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.549		0.101	mg/L	1	B4A2914	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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	114 %		70-130			"	"	"	
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #7

1/23/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.6 %	70-130	B4A24 22	10	[CALC]	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.97	0.499	meq/L	10	[CALC]	01/26/2024	01/29/2024	
Magnesium	1.45	0.823	"	"	"	"	"	
Sodium	2.00	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.005	0.002	mg/kg	1	B4A2521	01/25/2024	01/30/2024	
2-Methylnaphthalene	0.005	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #7

1/23/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-07 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	1.04		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.22		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Verdad Resources
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #7

1/23/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.02	0.0950	0.0950	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
Barium	283	9.50	9.50	"	"	"	"	"	
Cadmium	0.242	0.0950	0.0950	"	"	"	"	"	
Copper	12.7	9.50	9.50	"	"	"	"	"	
Lead	15.4	0.950	0.950	"	"	"	"	"	
Nickel	9.31	0.950	0.950	"	"	"	"	"	
Selenium	0.213	0.0950	0.0950	"	"	"	"	"	
Silver	ND	0.0950	0.0950	"	"	"	"	"	
Zinc	47.2	9.50	9.50	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L729950	01/23/2024	01/30/2024	
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Verdad Resources
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #8

1/23/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.11		0.0991	mg/L	1	B4A2914	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	61.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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	116 %		70-130			"	"	"	
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #8

1/23/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.1 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.62		0.499	meq/L	10	[CALC]	01/26/2024	01/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.18		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.003		0.002	mg/kg	1	B4A2521	01/25/2024	01/30/2024	
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Verdad Resources
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #8

1/23/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-08 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.002		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	3.23		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #8

1/23/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.71	0.0966	0.0966	mg/kg	10	B4A2420	01/24/2024	01/26/2024	
Barium	252	9.66	9.66	"	"	"	"	"	
Cadmium	0.229	0.0966	0.0966	"	"	"	"	"	
Copper	12.2	9.66	9.66	"	"	"	"	"	
Lead	14.2	0.966	0.966	"	"	"	"	"	
Nickel	8.98	0.966	0.966	"	"	"	"	"	
Selenium	0.142	0.0966	0.0966	"	"	"	"	"	
Silver	ND	0.0966	0.0966	"	"	"	"	"	
Zinc	46.7	9.66	9.66	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L729950	01/23/2024	01/30/2024	
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Origins Laboratory, Inc.



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Verdad Resources
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #9

1/23/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-09 (Soil)

Boron (DTPA Sorbitol)

Boron	7.05		0.917	mg/L	1	B4A2915	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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	116 %		70-130			"	"	"	
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Verdad Resources
 1125 17th St Suite 550
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #9

1/23/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.4 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.99	0.499	meq/L	10	[CALC]		01/26/2024	01/29/2024	
Magnesium	1.03	0.823	"	"	"		"	"	
Sodium	2.37	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4A2521		01/25/2024	01/30/2024	
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

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 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #9

1/23/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-09 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	1.50		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.992		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #9

1/23/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-09 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.76	0.0925	0.0925	mg/kg	10	B4A2421	01/24/2024	01/26/2024	
Barium	304	9.25	9.25	"	"	"	"	"	
Cadmium	0.229	0.0925	0.0925	"	"	"	"	"	
Copper	12.1	9.25	9.25	"	"	"	"	"	
Lead	16.1	0.925	0.925	"	"	"	"	"	
Nickel	8.89	0.925	0.925	"	"	"	"	"	
Selenium	0.205	0.0925	0.0925	"	"	"	"	"	
Silver	ND	0.0925	0.0925	"	"	"	"	"	
Zinc	46.2	9.25	9.25	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729952	01/23/2024	01/30/2024	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #10

1/23/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.871		0.100	mg/L	1	B4A2915	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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	115 %		70-130			"	"	"	
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #10

1/23/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.4 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.59	0.499	meq/L	10	[CALC]		01/26/2024	01/29/2024	
Magnesium	1.05	0.823	"	"	"		"	"	
Sodium	5.81	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2521		01/25/2024	01/30/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #10

1/23/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-10 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.24			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	3.81		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.28		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #10

1/23/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-10 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.49	0.0946	0.0946	mg/kg	10	B4A2421	01/24/2024	01/26/2024	
Barium	265	9.46	9.46	"	"	"	"	"	
Cadmium	0.233	0.0946	0.0946	"	"	"	"	"	
Copper	11.6	9.46	9.46	"	"	"	"	"	
Lead	15.1	0.946	0.946	"	"	"	"	"	
Nickel	8.26	0.946	0.946	"	"	"	"	"	
Selenium	0.200	0.0946	0.0946	"	"	"	"	"	
Silver	ND	0.0946	0.0946	"	"	"	"	"	
Zinc	44.7	9.46	9.46	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L729952	01/23/2024	01/30/2024	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #11

1/23/2024 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-11 (Soil)

Boron (DTPA Sorbitol)

Boron	1.94		0.0998	mg/L	1	B4A2915	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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	115 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #11

1/23/2024 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.8 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	12.9	0.499	meq/L	10	[CALC]		01/26/2024	01/29/2024	
Magnesium	3.99	0.823	"	"	"	"	"	"	
Sodium	22.7	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.005	0.002	mg/kg	1	B4A2521		01/25/2024	01/30/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U

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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #11

1/23/2024 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-11 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	7.83		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.55		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #11

1/23/2024 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-11 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.20	0.0950	0.0950	mg/kg	10	B4A2421	01/24/2024	01/26/2024	
Barium	408	9.50	9.50	"	"	"	"	"	
Cadmium	0.178	0.0950	0.0950	"	"	"	"	"	
Copper	12.0	9.50	9.50	"	"	"	"	"	
Lead	12.3	0.950	0.950	"	"	"	"	"	
Nickel	7.40	0.950	0.950	"	"	"	"	"	
Selenium	0.170	0.0950	0.0950	"	"	"	"	"	
Silver	ND	0.0950	0.0950	"	"	"	"	"	
Zinc	37.9	9.50	9.50	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729952	01/23/2024	01/30/2024	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #12

1/23/2024 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.315		0.101	mg/L	1	B4A2915	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	100 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/24/2024	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	116 %		70-130			"	"	"	
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #12

1/23/2024 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-12 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.8 %		70-130			B4A24 22	01/24/2024	01/24/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.25	0.499	meq/L	10	[CALC]		01/26/2024	01/29/2024	
Magnesium	1.82	0.823	"	"	"	"	"	"	
Sodium	3.25	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4A2521		01/25/2024	01/30/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #12

1/23/2024 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-12 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	1.53		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.39		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Sample #12

1/23/2024 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-12 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.64	0.0908	0.0908	mg/kg	10	B4A2421	01/24/2024	01/26/2024	
Barium	227	9.08	9.08	"	"	"	"	"	
Cadmium	0.234	0.0908	0.0908	"	"	"	"	"	
Copper	11.9	9.08	9.08	"	"	"	"	"	
Lead	13.1	0.908	0.908	"	"	"	"	"	
Nickel	8.43	0.908	0.908	"	"	"	"	"	
Selenium	0.193	0.0908	0.0908	"	"	"	"	"	
Silver	ND	0.0908	0.0908	"	"	"	"	"	
Zinc	43.2	9.08	9.08	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729952	01/23/2024	01/30/2024	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Background

1/23/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.800		0.102	mg/L	1	B4A2915	01/29/2024	01/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2502	01/25/2024	01/30/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2422	01/24/2024	01/25/2024	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	114 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Background

1/23/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-13 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.0 %		70-130			B4A24 22	01/24/2024	01/25/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.62	0.499	meq/L	10	[CALC]		01/26/2024	01/29/2024	
Magnesium	1.30	0.823	"	"	"		"	"	
Sodium	5.56	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A2521		01/25/2024	01/30/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

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 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

Background

1/23/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-13 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A2521	01/25/2024	01/30/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B4A2616	01/26/2024	01/27/2024	
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SAR by 20B Saturated Paste

SAR	3.23		0.0100	SAR	1	B4A2608	01/26/2024	01/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.34		0.00500	mmhos/cm	1	B4A2616	01/26/2024	01/27/2024	
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Table 915 metals by EPA 6020B

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Background

1/23/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401561-13 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.18	0.0937	0.0937	mg/kg	10	B4A2421	01/24/2024	01/26/2024	
Barium	225	9.37	9.37	"	"	"	"	"	
Cadmium	0.212	0.0937	0.0937	"	"	"	"	"	
Copper	10.5	9.37	9.37	"	"	"	"	"	
Lead	14.0	0.937	0.937	"	"	"	"	"	
Nickel	7.61	0.937	0.937	"	"	"	"	"	
Selenium	0.138	0.0937	0.0937	"	"	"	"	"	
Silver	ND	0.0937	0.0937	"	"	"	"	"	
Zinc	40.6	9.37	9.37	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.519	mg/Kg	1	L729952	01/23/2024	01/30/2024	
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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 B4A2422 - EPA 5030 (soil)

Blank (B4A2422-BLK1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

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	0.00380	"							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	102		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		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 B4A2422 - EPA 5030 (soil)

LCS (B4A2422-BS1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.117	0.00200	"	0.100		117	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2422 - EPA 5030 (soil)

Matrix Spike (B4A2422-MS1)	Source: Y401552-01			Prepared: 01/24/2024 Analyzed: 01/24/2024						
1,2,4-Trimethylbenzene	0.0927	0.00200	mg/kg	0.100	ND	92.7	70-130			
1,3,5-Trimethylbenzene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
Benzene	0.112	0.00200	"	0.100	ND	112	70-130			
Ethylbenzene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
Naphthalene	0.124	0.00380	"	0.100	ND	124	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.0932	0.00200	"	0.100	ND	93.2	70-130			
m,p-Xylene	0.196	0.00400	"	0.200	ND	97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2422 - EPA 5030 (soil)

Matrix Spike Dup (B4A2422-MSD1)	Source: Y401552-01			Prepared: 01/24/2024 Analyzed: 01/24/2024						
1,2,4-Trimethylbenzene	0.0987	0.00200	mg/kg	0.100	ND	98.7	70-130	6.35	20	
1,3,5-Trimethylbenzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	5.07	20	
Benzene	0.119	0.00200	"	0.100	ND	119	70-130	6.43	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	5.74	20	
Naphthalene	0.128	0.00380	"	0.100	ND	128	70-130	3.75	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	5.87	20	
o-Xylene	0.0998	0.00200	"	0.100	ND	99.8	70-130	6.88	20	
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130	6.18	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2502 - EPA 3550B										
Blank (B4A2502-BLK1)										
					Prepared: 01/25/2024 Analyzed: 01/29/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.8	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2502 - EPA 3550B

LCS (B4A2502-BS1)

Prepared: 01/25/2024 Analyzed: 01/29/2024

Diesel (C10-C28)	908	50.0	mg/kg	1000		90.8	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2502 - EPA 3550B

Matrix Spike (B4A2502-MS1)	Source: Y401499-23			Prepared: 01/25/2024 Analyzed: 01/29/2024						
Diesel (C10-C28)	879	50.0	mg/kg	1000	ND	87.9	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.6	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2502 - EPA 3550B										
Matrix Spike Dup (B4A2502-MSD1)					Source: Y401499-23					Prepared: 01/25/2024 Analyzed: 01/29/2024
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130	1.18	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	0.869	35	
Surrogate: o-Terphenyl	41		"	49.8		83.3	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 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 B4A2420 - EPA 3050B

Blank (B4A2420-BLK1)

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A2420-BS1)

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	4.92	0.0100	mg/kg	5.00		98.4	80-120			
Barium	496	1.00	"	500		99.3	80-120			
Cadmium	4.84	0.0100	"	5.00		96.9	80-120			
Copper	51.0	1.00	"	50.0		102	80-120			
Lead	5.16	0.100	"	5.00		103	80-120			
Nickel	5.09	0.100	"	5.00		102	80-120			
Selenium	4.66	0.0100	"	5.00		93.2	80-120			
Silver	5.17	0.0100	"	5.00		103	80-120			
Zinc	49.7	1.00	"	50.0		99.5	80-120			

Matrix Spike (B4A2420-MS1)

Source: Y401546-01

Prepared: 01/24/2024 Analyzed: 01/26/2024

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2420 - EPA 3050B

Matrix Spike (B4A2420-MS1)		Source: Y401546-01			Prepared: 01/24/2024 Analyzed: 01/26/2024					
Arsenic	10.8	0.0988	mg/kg	4.94	5.92	98.6	75-125			
Barium	729	9.88	"	494	257	95.4	75-125			
Cadmium	5.36	0.0988	"	4.94	0.180	105	75-125			
Copper	65.7	9.88	"	49.4	35.2	61.7	75-125			QM-07
Lead	17.8	0.988	"	4.94	13.8	79.9	75-125			
Nickel	18.4	0.988	"	4.94	13.7	96.4	75-125			
Selenium	4.28	0.0988	"	4.94	0.278	81.1	75-125			
Silver	4.75	0.0988	"	4.94	0.0403	95.3	75-125			
Zinc	93.5	9.88	"	49.4	46.5	95.1	75-125			

Matrix Spike Dup (B4A2420-MSD1)		Source: Y401546-01			Prepared: 01/24/2024 Analyzed: 01/26/2024					
Arsenic	10.4	0.0976	mg/kg	4.88	5.92	92.8	75-125	3.19	20	
Barium	728	9.76	"	488	257	96.4	75-125	0.109	20	
Cadmium	5.30	0.0976	"	4.88	0.180	105	75-125	1.18	20	
Copper	67.1	9.76	"	48.8	35.2	65.3	75-125	2.12	20	QM-07
Lead	18.0	0.976	"	4.88	13.8	86.1	75-125	1.42	20	
Nickel	18.0	0.976	"	4.88	13.7	88.2	75-125	2.51	20	
Selenium	4.30	0.0976	"	4.88	0.278	82.4	75-125	0.378	20	
Silver	4.50	0.0976	"	4.88	0.0403	91.3	75-125	5.41	20	
Zinc	91.7	9.76	"	48.8	46.5	92.5	75-125	1.95	20	

Batch B4A2421 - EPA 3050B

Blank (B4A2421-BLK1)		Prepared: 01/24/2024 Analyzed: 01/26/2024								
Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2421 - EPA 3050B

Blank (B4A2421-BLK1)

Prepared: 01/24/2024 Analyzed: 01/26/2024

Copper	ND	1.00	mg/kg							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A2421-BS1)

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	4.83	0.0100	mg/kg	5.00		96.7	80-120			
Barium	520	1.00	"	500		104	80-120			
Cadmium	5.01	0.0100	"	5.00		100	80-120			
Copper	51.2	1.00	"	50.0		102	80-120			
Lead	5.28	0.100	"	5.00		106	80-120			
Nickel	5.06	0.100	"	5.00		101	80-120			
Selenium	4.55	0.0100	"	5.00		91.0	80-120			
Silver	5.41	0.0100	"	5.00		108	80-120			
Zinc	48.8	1.00	"	50.0		97.5	80-120			

Matrix Spike (B4A2421-MS1)

Source: Y401561-09

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	7.90	0.0909	mg/kg	4.54	3.76	91.1	75-125			
Barium	820	9.09	"	454	304	114	75-125			
Cadmium	5.23	0.0909	"	4.54	0.229	110	75-125			
Copper	52.7	9.09	"	45.4	12.1	89.2	75-125			
Lead	20.5	0.909	"	4.54	16.1	96.8	75-125			
Nickel	12.9	0.909	"	4.54	8.89	87.3	75-125			
Selenium	3.66	0.0909	"	4.54	0.205	76.0	75-125			
Silver	4.21	0.0909	"	4.54	0.0222	92.2	75-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2421 - EPA 3050B

Matrix Spike (B4A2421-MS1)

Source: Y401561-09

Prepared: 01/24/2024 Analyzed: 01/26/2024

Zinc	86.9	9.09	mg/kg	45.4	46.2	89.6	75-125			
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Matrix Spike Dup (B4A2421-MSD1)

Source: Y401561-09

Prepared: 01/24/2024 Analyzed: 01/26/2024

Arsenic	7.72	0.0893	mg/kg	4.47	3.76	88.6	75-125	2.32	20	
Barium	800	8.93	"	447	304	111	75-125	2.54	20	
Cadmium	5.17	0.0893	"	4.47	0.229	111	75-125	1.09	20	
Copper	52.9	8.93	"	44.7	12.1	91.3	75-125	0.456	20	
Lead	20.0	0.893	"	4.47	16.1	88.6	75-125	2.17	20	
Nickel	13.0	0.893	"	4.47	8.89	91.6	75-125	0.964	20	
Selenium	3.77	0.0893	"	4.47	0.205	79.8	75-125	3.06	20	
Silver	4.19	0.0893	"	4.47	0.0222	93.3	75-125	0.515	20	
Zinc	86.6	8.93	"	44.7	46.2	90.6	75-125	0.272	20	

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 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2521 - EPA 3580

Blank (B4A2521-BLK1)

Prepared: 01/25/2024 Analyzed: 01/30/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B4A2521-BS1)

Prepared: 01/25/2024 Analyzed: 01/30/2024

1-Methylnaphthalene	0.167	0.002	mg/kg	0.200		83.4	70-130			
2-Methylnaphthalene	0.167	0.002	"	0.200		83.6	70-130			
Acenaphthene	0.161	0.020	"	0.200		80.7	70-130			
Anthracene	0.160	0.020	"	0.200		80.1	70-130			

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 Project: Peggy

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2521 - EPA 3580

LCS (B4A2521-BS1)

Prepared: 01/25/2024 Analyzed: 01/30/2024

Benzo (a) anthracene	0.161	0.005	mg/kg	0.200		80.5	70-130			
Benzo (a) pyrene	0.162	0.020	"	0.200		81.0	70-130			
Benzo (b) fluoranthene	0.174	0.020	"	0.200		87.1	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200		89.2	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200		84.6	70-130			
Chrysene	0.158	0.020	"	0.200		78.9	70-130			
Dibenz (a,h) anthracene	0.182	0.020	"	0.200		91.2	70-130			
Fluoranthene	0.162	0.020	"	0.200		80.9	70-130			
Fluorene	0.162	0.020	"	0.200		80.9	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200		91.4	70-130			
Naphthalene	0.165	0.002	"	0.200		82.4	70-130			
Phenanthrene	0.159	0.020	"	0.200		79.3	70-130			
Pyrene	0.153	0.020	"	0.200		76.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.3	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B4A2521-MS1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/30/2024

1-Methylnaphthalene	0.165	0.002	mg/kg	0.200	ND	82.3	70-130			
2-Methylnaphthalene	0.168	0.002	"	0.200	ND	83.9	70-130			
Acenaphthene	0.164	0.020	"	0.200	ND	82.0	70-130			
Anthracene	0.152	0.020	"	0.200	ND	76.0	70-130			
Benzo (a) anthracene	0.167	0.005	"	0.200	ND	83.5	70-130			
Benzo (a) pyrene	0.168	0.020	"	0.200	0.003	82.5	70-130			
Benzo (b) fluoranthene	0.167	0.020	"	0.200	ND	83.6	70-130			
Benzo (g,h,i) perylene	0.175	0.020	"	0.200	0.001	87.2	70-130			

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 Project: Peggy

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2521 - EPA 3580

Matrix Spike (B4A2521-MS1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/30/2024

Benzo (k) fluoranthene	0.165	0.020	mg/kg	0.200	ND	82.7	70-130			
Chrysene	0.162	0.020	"	0.200	0.001	80.4	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200	ND	87.3	70-130			
Fluoranthene	0.165	0.020	"	0.200	0.0007	82.4	70-130			
Fluorene	0.162	0.020	"	0.200	ND	81.2	70-130			
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200	ND	89.1	70-130			
Naphthalene	0.166	0.002	"	0.200	ND	83.1	70-130			
Phenanthrene	0.158	0.020	"	0.200	ND	78.8	70-130			
Pyrene	0.162	0.020	"	0.200	0.001	80.3	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B4A2521-MSD1)

Source: Y401499-23

Prepared: 01/25/2024 Analyzed: 01/30/2024

1-Methylnaphthalene	0.165	0.002	mg/kg	0.200	ND	82.3	70-130	0.0548	20	
2-Methylnaphthalene	0.167	0.002	"	0.200	ND	83.5	70-130	0.492	20	
Acenaphthene	0.164	0.020	"	0.200	ND	82.0	70-130	0.0569	20	
Anthracene	0.162	0.020	"	0.200	ND	80.8	70-130	6.13	20	
Benzo (a) anthracene	0.162	0.005	"	0.200	ND	80.9	70-130	3.08	20	
Benzo (a) pyrene	0.181	0.020	"	0.200	0.003	88.7	70-130	7.14	20	
Benzo (b) fluoranthene	0.175	0.020	"	0.200	ND	87.6	70-130	4.65	20	
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.001	85.4	70-130	2.17	20	
Benzo (k) fluoranthene	0.168	0.020	"	0.200	ND	83.9	70-130	1.47	20	
Chrysene	0.163	0.020	"	0.200	0.001	80.8	70-130	0.417	20	
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	ND	91.3	70-130	4.46	20	
Fluoranthene	0.163	0.020	"	0.200	0.0007	81.1	70-130	1.57	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A2521 - EPA 3580

Matrix Spike Dup (B4A2521-MSD1)		Source: Y401499-23			Prepared: 01/25/2024 Analyzed: 01/30/2024					
Fluorene	0.164	0.020	mg/kg	0.200	ND	82.0	70-130	0.955	20	
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200	ND	89.0	70-130	0.124	20	
Naphthalene	0.167	0.002	"	0.200	ND	83.5	70-130	0.418	20	
Phenanthrene	0.162	0.020	"	0.200	ND	80.9	70-130	2.68	20	
Pyrene	0.157	0.020	"	0.200	0.001	77.8	70-130	3.16	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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 Project Number: 2525
 Project: Peggy

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 B4A2608 - Saturated Paste Metals

Blank (B4A2608-BLK1)

Prepared: 01/26/2024 Analyzed: 01/29/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B4A2608-DUP1)

Source: Y401558-01

Prepared: 01/26/2024 Analyzed: 01/29/2024

Calcium PPM	16.5	10.0	mg/L		16.5			0.182	50	
SAR	ND	0.0100	SAR		0.698				200	
Magnesium PPM	23.5	10.0	mg/L		23.6			0.424	50	
Sodium PPM	19.3	10.0	"		18.9			2.46	50	

Batch B4A2914 - DTPA Sorbitol Preparation

Blank (B4A2914-BLK1)

Prepared: 01/29/2024 Analyzed: 01/30/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2914-DUP1)

Source: Y401561-01

Prepared: 01/29/2024 Analyzed: 01/30/2024

Boron	1.31	0.0988	mg/L		1.17			11.0	50	
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Batch B4A2915 - DTPA Sorbitol Preparation

Blank (B4A2915-BLK1)

Prepared: 01/29/2024 Analyzed: 01/30/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2915-DUP1)

Source: Y401561-09

Prepared: 01/29/2024 Analyzed: 01/30/2024

Boron	0.764	0.0992	mg/L		7.05			161	50	QR-DUP
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 Project Number: 2525
 Project: Peggy

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2616 - Saturated Paste pH/EC										
Blank (B4A2616-BLK1)					Prepared: 01/26/2024 Analyzed: 01/27/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A2616-DUP1)					Source: Y401558-01 Prepared: 01/26/2024 Analyzed: 01/27/2024					
pH	8.46		pH Units		8.44			0.237	25	
Specific Conductance (EC)	0.380	0.00500	mmhos/cm		0.364			4.19	25	

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Dean Wagoner
 Project Number: 2525
 Project: Peggy

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L729952 -										
DUP (L 88438-DUP)		Source: Y401561-09			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	ND	0.512	mg/Kg		<0.512		-	2.3	20	
MS (L 88438-MS)		Source: Y401561-09			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	25.3	2.56	mg/Kg	41	< 0.244	62	75-125			*
LCS (LCS)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	6.11	0.5	mg/Kg	8		76	75-125			
LRB (LRB)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 Denver CO 80202

Dean Wagoner
 Project Number: 2525
 Project: Peggy

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L729950 -										
DUP (L 88428-DUP)		Source: 88428			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	1.3	20	
MS (L 88428-MS)		Source: 88428			Prepared: Analyzed: 01/30/2024					
Chromium, Hexavalent	33.8	2.58	mg/Kg	41.3	< 0.247	82	75-125			
LCS (LCS)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	5.96	0.5	mg/Kg	8		75	75-125			
LRB (LRB)		Prepared: Analyzed: 01/30/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Dean Wagoner
Project Number: 2525
Project: Peggy

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

* 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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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Jordan A. Bynon, Project Manager