



Verdad Resources

January 24, 2025

Dean Wagoner

1125 17th St Suite 550

Denver

CO

80202

Project Name - County Line 3107

Project Number - [none]

Attached are your analytical results for County Line 3107 received by Origins Laboratory December 23, 2024. This project is associated with Origins project number E4L0812-01.

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
303.433.1322
projectmanager@originslab.com



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

Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Wall	E4L0812-01	Soil	December 23, 2024 12:40	12/23/2024 14:00
East Wall	E4L0812-02	Soil	December 23, 2024 10:30	12/23/2024 14:00
South Wall	E4L0812-03	Soil	December 23, 2024 10:10	12/23/2024 14:00
West Wall	E4L0812-04	Soil	December 23, 2024 12:15	12/23/2024 14:00
Floor #1	E4L0812-05	Soil	December 23, 2024 11:25	12/23/2024 14:00
Floor #2	E4L0812-06	Soil	December 23, 2024 11:30	12/23/2024 14:00

Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

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

Sample Receipt Checklist

Origins Work Order: E90812 Client: Verdad
 Logged in by: _____ Labeled by: _____ Client Project ID: County Line
 Checklist Completed by: VS /SEM Shipped Via: HD
 Date/time completed: 12/23/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid _____ Water _____ Other: _____
 Cooler Number/Temperature: 1 / 12.8 °C _____ / _____ °C _____ / _____ °C (Describe) _____ °C
 Thermometer ID: 7007

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>Ⓟ</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 Na ₂ CO 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: [Signature] Date/Time Reviewed: 12/23/12

Origins Laboratory

[Signature]

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

North Wall
12/23/2024 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.214		0.0985	mg/L	1	B4L2403	12/24/2024	12/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L2325	12/23/2024	12/23/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	76.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L2332	"	12/23/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
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Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

North Wall
12/23/2024 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.1 %		70-130			B4L23 32	12/23/2024	12/23/2024	
Surrogate: 4-Bromofluorobenzene	94.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.43		0.499	meq/L	10	[CALC]	12/24/2024	12/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.53		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

North Wall
12/23/2024 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Phenanthrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	105 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	92.5 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B4L2413	12/24/2024	12/27/2024	
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SAR by 20B Saturated Paste

SAR	1.48		0.0100	SAR	1	B4L2405	12/24/2024	12/27/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.414		0.00500	mmhos/cm	1	B4L2413	12/24/2024	12/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory



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Verdad Resources
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Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

North Wall
12/23/2024 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.64		0.281	mg/kg	10	B4L2330	12/23/2024	12/26/2024	
Barium	76.3		9.71	"	"	"	"	"	
Cadmium	ND		0.0971	"	"	"	"	"	
Copper	ND		9.71	"	"	"	"	"	
Lead	7.09		0.971	"	"	"	"	"	
Nickel	5.79		0.971	"	"	"	"	"	
Selenium	ND		0.252	"	"	"	"	"	
Silver	ND		0.0971	"	"	"	"	"	
Zinc	ND		35.9	"	"	"	"	"	

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.159	0.397	mg/kg dry	1	2731393	01/15/2025	01/16/2025	U
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

East Wall

12/23/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.206	0.0986	mg/L	1	B4L2403	12/24/2024	12/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4L2325	12/23/2024	12/23/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	76.2 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L2332	"	12/23/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"	"	"	"
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Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

East Wall

12/23/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0812-02 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.2 %		70-130			B4L23 32	12/23/2024	12/23/2024	
Surrogate: 4-Bromofluorobenzene	94.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.59		0.499	meq/L	10	[CALC]	12/24/2024	12/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.56		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

East Wall

12/23/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-02 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND	0.020	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Phenanthrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.8 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	88.2 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.0 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.18	pH Units	1	B4L2413	12/24/2024	12/27/2024
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SAR by 20B Saturated Paste

SAR	1.46	0.0100	SAR	1	B4L2405	12/24/2024	12/27/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.439	0.00500	mmhos/cm	1	B4L2413	12/24/2024	12/27/2024
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Table 915 metals by EPA 6020B

Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

East Wall

12/23/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0812-02 (Soil)**

Table 915 metals by EPA 6020B

Arsenic	2.66		0.266	mg/kg	10	B4L2330	12/23/2024	12/26/2024	
Barium	86.2		9.17	"	"	"	"	"	
Cadmium	ND		0.0917	"	"	"	"	"	
Copper	ND		9.17	"	"	"	"	"	
Lead	5.85		0.917	"	"	"	"	"	
Nickel	5.25		0.917	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0917	"	"	"	"	"	
Zinc	ND		33.9	"	"	"	"	"	

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.120	0.300	mg/kg dry	1	2731393	01/15/2025	01/16/2025	U
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Origins Laboratory



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

South Wall
12/23/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.204	0.101	mg/L	1	B4L2403	12/24/2024	12/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4L2325	12/23/2024	12/23/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	75.0 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L2332	"	12/23/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"	"	"
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

South Wall
12/23/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.0 %		70-130			B4L23 32	12/23/2024	12/23/2024	
Surrogate: 4-Bromofluorobenzene	95.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.32		0.499	meq/L	10	[CALC]	12/24/2024	12/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.63		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

South Wall
12/23/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-03 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND	0.020	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Phenanthrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.8 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	89.0 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	114 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	90.1 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.18	pH Units	1	B4L2413	12/24/2024	12/27/2024
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SAR by 20B Saturated Paste

SAR	1.63	0.0100	SAR	1	B4L2405	12/24/2024	12/27/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.404	0.00500	mmhos/cm	1	B4L2413	12/24/2024	12/27/2024
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Table 915 metals by EPA 6020B

Origins Laboratory



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.

Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

South Wall

12/23/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0812-03 (Soil)**

Table 915 metals by EPA 6020B

Arsenic	2.66		0.279	mg/kg	10	B4L2330	12/23/2024	12/26/2024	
Barium	80.9		9.63	"	"	"	"	"	
Cadmium	ND		0.0963	"	"	"	"	"	
Copper	ND		9.63	"	"	"	"	"	
Lead	6.08		0.963	"	"	"	"	"	
Nickel	5.36		0.963	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0963	"	"	"	"	"	
Zinc	ND		35.6	"	"	"	"	"	

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.153	0.381	mg/kg dry	1	2731393	01/15/2025	01/16/2025	U
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Origins Laboratory



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.

Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

West Wall

12/23/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.225		0.101	mg/L	1	B4L2403	12/24/2024	12/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L2325	12/23/2024	12/23/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	74.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L2332	"	12/23/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
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Origins Laboratory



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.

Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

West Wall

12/23/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.2 %		70-130			B4L23 32	12/23/2024	12/23/2024	
Surrogate: 4-Bromofluorobenzene	96.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.42		0.499	meq/L	10	[CALC]	12/24/2024	12/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.49		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

West Wall

12/23/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0812-04 (Soil)**

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Phenanthrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	95.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	92.7 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B4L2413	12/24/2024	12/27/2024	
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SAR by 20B Saturated Paste

SAR	1.47		0.0100	SAR	1	B4L2405	12/24/2024	12/27/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.428		0.00500	mmhos/cm	1	B4L2413	12/24/2024	12/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

West Wall

12/23/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0812-04 (Soil)**

Table 915 metals by EPA 6020B

Arsenic	2.63		0.268	mg/kg	10	B4L2330	12/23/2024	12/26/2024	
Barium	76.0		9.23	"	"	"	"	"	
Cadmium	ND		0.0923	"	"	"	"	"	
Copper	ND		9.23	"	"	"	"	"	
Lead	5.42		0.923	"	"	"	"	"	
Nickel	6.07		0.923	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	ND		34.2	"	"	"	"	"	

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.163	0.408	mg/kg dry	1	2731393	01/15/2025	01/16/2025	U
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Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

Floor #1

12/23/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0812-05 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.269		0.102	mg/L	1	B4L2403	12/24/2024	12/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L2325	12/23/2024	12/23/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	75.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L2332	"	12/23/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory



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.

Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

Floor #1
12/23/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.7 %		70-130			B4L23 32	12/23/2024	12/23/2024	
Surrogate: 4-Bromofluorobenzene	94.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.65		0.499	meq/L	10	[CALC]	12/24/2024	12/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.20		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
2-Methylnaphthalene	0.002		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

Floor #1
12/23/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-05 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Phenanthrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	88.5 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B4L2413	12/24/2024	12/27/2024	
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SAR by 20B Saturated Paste

SAR	1.12		0.0100	SAR	1	B4L2405	12/24/2024	12/27/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.403		0.00500	mmhos/cm	1	B4L2413	12/24/2024	12/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

Floor #1

12/23/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0812-05 (Soil)**

Table 915 metals by EPA 6020B

Arsenic	3.26		0.275	mg/kg	10	B4L2330	12/23/2024	12/26/2024	
Barium	91.6		9.48	"	"	"	"	"	
Cadmium	ND		0.0948	"	"	"	"	"	
Copper	ND		9.48	"	"	"	"	"	
Lead	6.61		0.948	"	"	"	"	"	
Nickel	7.17		0.948	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0948	"	"	"	"	"	
Zinc	ND		35.1	"	"	"	"	"	

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.145	0.362	mg/kg dry	1	2731393	01/15/2025	01/16/2025	U
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Origins Laboratory



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.

Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

Floor #2
12/23/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.233	0.101	mg/L	1	B4L2403	12/24/2024	12/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4L2325	12/23/2024	12/23/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	73.8 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L2332	"	12/23/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"	"	"
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Origins Laboratory



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.

Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

Floor #2

12/23/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.9 %		70-130			B4L23 32	12/23/2024	12/23/2024	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.55		0.499	meq/L	10	[CALC]	12/24/2024	12/27/2024	
Magnesium	0.833		0.823	"	"	"	"	"	
Sodium	1.76		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
2-Methylnaphthalene	0.002		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory



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.

Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

Floor #2

12/23/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0812-06 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND	0.020	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Phenanthrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.4 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	85.7 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	91.9 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.15	pH Units	1	B4L2413	12/24/2024	12/27/2024
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SAR by 20B Saturated Paste

SAR	1.61	0.0100	SAR	1	B4L2405	12/24/2024	12/27/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.477	0.00500	mmhos/cm	1	B4L2413	12/24/2024	12/27/2024
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Table 915 metals by EPA 6020B

Origins Laboratory



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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

Floor #2

12/23/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0812-06 (Soil)**

Table 915 metals by EPA 6020B

Arsenic	3.02		0.259	mg/kg	10	B4L2330	12/23/2024	12/26/2024	
Barium	92.8		8.95	"	"	"	"	"	
Cadmium	ND		0.0895	"	"	"	"	"	
Copper	ND		8.95	"	"	"	"	"	
Lead	6.57		0.895	"	"	"	"	"	
Nickel	7.03		0.895	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0895	"	"	"	"	"	
Zinc	ND		33.1	"	"	"	"	"	

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.162	0.406	mg/kg dry	1	2731393	01/15/2025	01/16/2025	U
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Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L2325 - EPA 3550B										
Blank (B4L2325-BLK1)										
					Prepared: 12/23/2024 Analyzed: 12/23/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	19		"	24.9		78.1	50-150			

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 Project: County Line 3107

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2325 - EPA 3550B

LCS (B4L2325-BS1)

Prepared: 12/23/2024 Analyzed: 12/23/2024

Diesel (C10-C28)	889	50.0	mg/kg	1000		88.9	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000		94.7	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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Project Number: [none]
Project: County Line 3107

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2325 - EPA 3550B

Matrix Spike (B4L2325-MS1)	Source: E4L0809-01		Prepared: 12/23/2024 Analyzed: 12/23/2024							
Diesel (C10-C28)	919	50.0	mg/kg	1000	ND	91.9	70-130			
Residual Range Organics (C28-C40)	974	200	"	1000	ND	97.4	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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Project: County Line 3107

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2325 - EPA 3550B

Matrix Spike Dup (B4L2325-MSD1)	Source: E4L0809-01				Prepared: 12/23/2024 Analyzed: 12/23/2024					
Diesel (C10-C28)	920	50.0	mg/kg	1000	ND	92.0	70-130	0.169	35	
Residual Range Organics (C28-C40)	984	200	"	1000	ND	98.4	70-130	0.930	35	
Surrogate: o-Terphenyl	49		"	49.8		98.4	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L2332 - EPA 5030 (soil)										
Blank (B4L2332-BLK1)										
					Prepared: 12/23/2024 Analyzed: 12/23/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

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Project: County Line 3107

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2332 - EPA 5030 (soil)

LCS (B4L2332-BS1)

Prepared: 12/23/2024 Analyzed: 12/23/2024

1,2,4-Trimethylbenzene	0.0934	0.00200	mg/kg	0.100		93.4	70-130			
1,3,5-Trimethylbenzene	0.0936	0.00200	"	0.100		93.6	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0948	0.00200	"	0.100		94.8	70-130			
Naphthalene	0.0920	0.00380	"	0.100		92.0	70-130			
Toluene	0.0947	0.00200	"	0.100		94.7	70-130			
o-Xylene	0.0934	0.00200	"	0.100		93.4	70-130			
m,p-Xylene	0.191	0.00400	"	0.200		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2332 - EPA 5030 (soil)

Matrix Spike (B4L2332-MS1)	Source: E4L0809-01			Prepared: 12/23/2024 Analyzed: 12/23/2024						
1,2,4-Trimethylbenzene	0.0923	0.00200	mg/kg	0.100	ND	92.3	70-130			
1,3,5-Trimethylbenzene	0.0913	0.00200	"	0.100	ND	91.3	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
Naphthalene	0.0982	0.00380	"	0.100	ND	98.2	70-130			
Toluene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
o-Xylene	0.0917	0.00200	"	0.100	ND	91.7	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2332 - EPA 5030 (soil)

Matrix Spike Dup (B4L2332-MSD1)	Source: E4L0809-01			Prepared: 12/23/2024 Analyzed: 12/23/2024						
1,2,4-Trimethylbenzene	0.0912	0.00200	mg/kg	0.100	ND	91.2	70-130	1.24	20	
1,3,5-Trimethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130	1.06	20	
Benzene	0.0992	0.00200	"	0.100	ND	99.2	70-130	1.58	20	
Ethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130	1.49	20	
Naphthalene	0.0956	0.00380	"	0.100	ND	95.6	70-130	2.66	20	
Toluene	0.0900	0.00200	"	0.100	ND	90.0	70-130	1.65	20	
o-Xylene	0.0923	0.00200	"	0.100	ND	92.3	70-130	0.695	20	
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.5	70-130	1.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	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
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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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2330 - EPA 3050B

Blank (B4L2330-BLK1)

Prepared: 12/23/2024 Analyzed: 12/26/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4L2330-BS1)

Prepared: 12/23/2024 Analyzed: 12/26/2024

Arsenic	5.38	0.290	mg/kg	5.00		108	80-120			
Barium	564	10.0	"	500		113	80-120			
Cadmium	5.43	0.100	"	5.00		109	80-120			
Copper	53.6	10.0	"	50.0		107	80-120			
Lead	5.39	1.00	"	5.00		108	80-120			
Nickel	4.43	1.00	"	5.00		88.6	80-120			
Selenium	5.21	0.260	"	5.00		104	80-120			
Silver	5.79	0.100	"	5.00		116	80-120			
Zinc	54.2	37.0	"	50.0		108	80-120			

Matrix Spike (B4L2330-MS1)

Source: E4L0812-01

Prepared: 12/23/2024 Analyzed: 12/26/2024

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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2330 - EPA 3050B

Matrix Spike (B4L2330-MS1)	Source: E4L0812-01			Prepared: 12/23/2024 Analyzed: 12/26/2024						
Arsenic	7.32	0.279	mg/kg	4.82	2.64	97.3	75-125			
Barium	602	9.63	"	482	76.3	109	75-125			
Cadmium	5.29	0.0963	"	4.82	0.0777	108	75-125			
Copper	56.2	9.63	"	48.2	5.34	106	75-125			
Lead	10.6	0.963	"	4.82	7.09	72.3	75-125			QM-07
Nickel	10.5	0.963	"	4.82	5.79	98.0	75-125			
Selenium	5.29	0.250	"	4.82	0.0728	108	75-125			
Silver	5.78	0.0963	"	4.82	0.0505	119	75-125			
Zinc	75.1	35.6	"	48.2	26.7	101	75-125			

Matrix Spike Dup (B4L2330-MSD1)	Source: E4L0812-01			Prepared: 12/23/2024 Analyzed: 12/26/2024						
Arsenic	7.12	0.270	mg/kg	4.66	2.64	96.1	75-125	2.83	20	
Barium	630	9.32	"	466	76.3	119	75-125	4.61	20	
Cadmium	5.04	0.0932	"	4.66	0.0777	107	75-125	4.73	20	
Copper	53.5	9.32	"	46.6	5.34	103	75-125	4.97	20	
Lead	10.5	0.932	"	4.66	7.09	73.4	75-125	0.570	20	QM-07
Nickel	10.6	0.932	"	4.66	5.79	104	75-125	1.00	20	
Selenium	5.06	0.242	"	4.66	0.0728	107	75-125	4.39	20	
Silver	5.36	0.0932	"	4.66	0.0505	114	75-125	7.51	20	
Zinc	73.7	34.5	"	46.6	26.7	101	75-125	1.87	20	

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 Project: County Line 3107

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2313 - EPA 3580

Blank (B4L2313-BLK1)

Prepared: 12/23/2024 Analyzed: 01/18/2025

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.9	60-130			

LCS (B4L2313-BS1)

Prepared: 12/23/2024 Analyzed: 01/18/2025

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200		102	70-130			
Acenaphthene	0.228	0.020	"	0.200		114	70-130			
Anthracene	0.199	0.020	"	0.200		99.6	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2313 - EPA 3580

LCS (B4L2313-BS1)

Prepared: 12/23/2024 Analyzed: 01/18/2025

Benzo (a) anthracene	0.219	0.005	mg/kg	0.200		109	70-130			
Benzo (a) pyrene	0.250	0.020	"	0.200		125	70-130			
Benzo (b) fluoranthene	0.249	0.020	"	0.200		125	70-130			
Benzo (g,h,i) perylene	0.223	0.020	"	0.200		111	70-130			
Benzo (k) fluoranthene	0.234	0.020	"	0.200		117	70-130			
Chrysene	0.218	0.020	"	0.200		109	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200		87.6	70-130			
Fluoranthene	0.236	0.020	"	0.200		118	70-130			
Fluorene	0.228	0.020	"	0.200		114	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		95.0	70-130			
Naphthalene	0.226	0.002	"	0.200		113	70-130			
Phenanthrene	0.204	0.020	"	0.200		102	70-130			
Pyrene	0.249	0.020	"	0.200		125	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	170		"	200		85.9	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		91.0	60-130			

Matrix Spike (B4L2313-MS1)

Source: E4L0724-21

Prepared: 12/23/2024 Analyzed: 01/20/2025

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.215	0.002	"	0.200	0.0008	107	70-130			
Acenaphthene	0.221	0.020	"	0.200	ND	110	70-130			
Anthracene	0.223	0.020	"	0.200	ND	111	70-130			
Benzo (a) anthracene	0.233	0.005	"	0.200	0.0004	116	70-130			
Benzo (a) pyrene	0.210	0.020	"	0.200	0.001	104	70-130			
Benzo (b) fluoranthene	0.217	0.020	"	0.200	0.0005	108	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0005	103	70-130			

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Project Number: [none]
Project: County Line 3107

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2313 - EPA 3580

Matrix Spike (B4L2313-MS1)	Source: E4L0724-21			Prepared: 12/23/2024 Analyzed: 01/20/2025						
Benzo (k) fluoranthene	0.204	0.020	mg/kg	0.200	0.0006	102	70-130			
Chrysene	0.220	0.020	"	0.200	0.002	109	70-130			
Dibenz (a,h) anthracene	0.225	0.020	"	0.200	ND	112	70-130			
Fluoranthene	0.234	0.020	"	0.200	0.0009	117	70-130			
Fluorene	0.216	0.020	"	0.200	0.0008	107	70-130			
Indeno (1,2,3-cd) pyrene	0.235	0.020	"	0.200	ND	118	70-130			
Naphthalene	0.219	0.002	"	0.200	0.002	108	70-130			
Phenanthrene	0.220	0.020	"	0.200	0.003	109	70-130			
Pyrene	0.245	0.020	"	0.200	0.0006	122	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

Matrix Spike Dup (B4L2313-MSD1)	Source: E4L0724-21			Prepared: 12/23/2024 Analyzed: 01/20/2025						
1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	98.0	70-130	5.65	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	0.0008	97.8	70-130	9.20	20	
Acenaphthene	0.216	0.020	"	0.200	ND	108	70-130	2.02	20	
Anthracene	0.225	0.020	"	0.200	ND	112	70-130	0.887	20	
Benzo (a) anthracene	0.233	0.005	"	0.200	0.0004	116	70-130	0.0160	20	
Benzo (a) pyrene	0.234	0.020	"	0.200	0.001	116	70-130	10.6	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.0005	110	70-130	1.21	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.0005	102	70-130	1.54	20	
Benzo (k) fluoranthene	0.207	0.020	"	0.200	0.0006	103	70-130	1.38	20	
Chrysene	0.223	0.020	"	0.200	0.002	111	70-130	1.29	20	
Dibenz (a,h) anthracene	0.213	0.020	"	0.200	ND	106	70-130	5.57	20	
Fluoranthene	0.233	0.020	"	0.200	0.0009	116	70-130	0.411	20	

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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: County Line 3107

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2313 - EPA 3580

Matrix Spike Dup (B4L2313-MSD1)	Source: E4L0724-21			Prepared: 12/23/2024 Analyzed: 01/20/2025						
Fluorene	0.211	0.020	mg/kg	0.200	0.0008	105	70-130	2.09	20	
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	109	70-130	7.27	20	
Naphthalene	0.215	0.002	"	0.200	0.002	107	70-130	1.64	20	
Phenanthrene	0.221	0.020	"	0.200	0.003	109	70-130	0.311	20	
Pyrene	0.252	0.020	"	0.200	0.0006	126	70-130	2.72	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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**Classical Chemistry Parameters - Quality Control
 Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2403 - DTPA Sorbitol Preparation

Blank (B4L2403-BLK1)

Prepared: 12/24/2024 Analyzed: 12/26/2024

Boron ND 0.100 mg/L

Duplicate (B4L2403-DUP1)

Source: E4L0810-01

Prepared: 12/24/2024 Analyzed: 12/26/2024

Boron 0.193 0.101 mg/L 0.183 5.39 50

Batch B4L2405 - Saturated Paste Metals

Blank (B4L2405-BLK1)

Prepared: 12/24/2024 Analyzed: 12/27/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4L2405-DUP1)

Source: E4L0810-01

Prepared: 12/24/2024 Analyzed: 12/27/2024

Calcium PPM 29.1 10.0 mg/L 24.3 18.0 50

SAR ND 0.0100 SAR 1.08 200

Magnesium PPM 6.28 10.0 mg/L 5.46 14.0 50

Sodium PPM 24.4 10.0 " 22.6 7.75 50

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Project Number: [none]
Project: County Line 3107

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2413 - Saturated Paste pH/EC

Blank (B4L2413-BLK1)

Prepared: 12/24/2024 Analyzed: 12/27/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4L2413-DUP1)

Source: E4L0810-01

Prepared: 12/24/2024 Analyzed: 12/27/2024

Specific Conductance (EC)	0.345	0.00500	mmhos/cm	0.327	5.35	25
pH	8.18		pH Units	8.20	0.244	25

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Project: County Line 3107

TOTAL METALS BY 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2731393 - SW846 3060A										
BLANK (1205971556-BLK)					Prepared: 01/15/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	ND	0.303	mg/kg				-			U
LCS (1205971557-BKS)					Prepared: 01/15/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	3.79	0.377	mg/kg	3.77		101	80-120			
DUP (1205971558 D)					Source: E4L0812-01 Prepared: 01/15/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	ND	0.361	mg/kg dry		<0.144		0-50	N/A	50	U
MS (1205971559 S)					Source: E4L0812-01 Prepared: 01/15/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	2.39	0.380	mg/kg dry	3.80	<0.152	61.9	75-125			
DUP (1205971560 D)					Source: E4L0812-02 Prepared: 01/15/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	ND	0.346	mg/kg dry		<0.138		0-50	N/A	50	U
MS (1205971561 S)					Source: E4L0812-02 Prepared: 01/15/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	2.25	0.318	mg/kg dry	3.18	<0.127	69.7	75-125			
ILCS (1205971562-ILCS)					Prepared: 01/15/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	7.58	0.348	mg/kg	7.05		107	80-120			

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Dean Wagoner
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Project: County Line 3107

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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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