



Montrose Environmental

December 17, 2025

Jordan Goff

471 Denver Ave

Loveland

CO

80537

**Project Name - Chevron - Richardson 64N64W
10NWSW**

Project Number - 34536

Attached are your analytical results for Chevron - Richardson 64N64W 10NWSW received by Origins Laboratory December 05, 2025. This project is associated with Origins project number E5L0143-01.

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.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

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



Montrose Environmental
471 Denver Ave
Loveland CO 80537

Jordan Goff
Project Number: 34536
Project: Chevron - Richardson 64N64W
10NWSW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0.5'	E5L0143-01	Soil	December 5, 2025 7:11	12/05/2025 17:24
AST03@0.5'	E5L0143-02	Soil	December 5, 2025 7:34	12/05/2025 17:24
SEP01-DL@3'	E5L0143-03	Soil	December 5, 2025 8:05	12/05/2025 17:24
SEP02-DL@3'	E5L0143-04	Soil	December 5, 2025 8:12	12/05/2025 17:24

Origins Laboratory

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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESL0143

Client: Montrose

Client Project ID: Richardson (A)

Checklist Completed by: NB/Aw

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

Date/time completed: 12/5/25

Airbill #: N/A

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

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

Thermometer ID: T004

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

John A.
Reviewed by (Project Manager)

12/8/25
Date/Time Reviewed



Montrose Environmental
 471 Denver Ave
 Loveland CO 80537

Jordan Goff
 Project Number: 34536
 Project: Chevron - Richardson 64N64W
 10NWSW

AST01@0.5'
12/5/2025 7:11:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5L0143-01 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	0.10	0.09	0.22	mg/kg dry	1	BIL0704	12/12/2025	12/15/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.736		0.111	mg/L dry	1	5L08041	12/08/2025	12/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		27.8	mg/kg dry	1	5L08057	12/08/2025	12/08/2025	U
Residual Range Organics (C28-C36)	ND		111	"	"	"	"	"	U
Surrogate: o-Terphenyl	102 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	5L07017	12/07/2025	12/07/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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AST01@0.5'
12/5/2025 7:11:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.220	mg/kg dry	1	5L07017	12/07/2025	12/07/2025	U
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.49		0.499	meq/L	10	[CALC]	12/08/2025	12/09/2025	
Magnesium	1.06		0.823	"	"	"	"	"	
Sodium	3.62		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L08063	12/08/2025	12/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.022	mg/kg dry	1	5L08063	12/08/2025	12/08/2025	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U
Fluoranthene	ND		0.022	"	"	"	"	"	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	90.7			mass percent	1	5L08071	12/08/2025	12/08/2025	
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pH in Soil by 9045D

pH	8.19			pH Units	1	5L08046	12/08/2025	12/09/2025	
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SAR by 20B Saturated Paste

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AST01@0.5'
12/5/2025 7:11:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5L0143-01 (Soil)									
Origins Laboratory									
SAR by 20B Saturated Paste									
SAR	3.21		0.0100	SAR	1	5L08033	12/08/2025	12/09/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.759		0.00500	mmhos/cm	1	5L08046	12/08/2025	12/09/2025	
Table 915 metals by EPA 6020B									
Arsenic	4.04		0.212	mg/kg dry	10	5L07019	12/07/2025	12/08/2025	
Barium	126		59.9	"	"	"	"	"	
Cadmium	ND		0.278	"	"	"	"	"	U
Copper	ND		33.6	"	"	"	"	"	U
Lead	17.2		10.2	"	"	"	"	"	
Nickel	ND		19.0	"	"	"	"	"	U
Selenium	ND		0.180	"	"	"	"	"	U
Silver	ND		0.584	"	"	"	"	"	U
Zinc	ND		270	"	"	"	"	"	U

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AST03@0.5'
12/5/2025 7:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5L0143-02 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	0.12	0.09	0.22	mg/kg dry	1	BIL0704	12/12/2025	12/15/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.679		0.109	mg/L dry	1	5L08041	12/08/2025	12/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		27.5	mg/kg dry	1	5L08057	12/08/2025	12/08/2025	U
Residual Range Organics (C28-C36)	ND		110	"	"	"	"	"	U
Surrogate: o-Terphenyl	96.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	5L07017	12/07/2025	12/07/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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AST03@0.5'
12/5/2025 7:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.214	mg/kg dry	1	5L07017	12/07/2025	12/07/2025	U
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.940		0.499	meq/L	10	[CALC]	12/08/2025	12/09/2025	
Magnesium	1.04		0.823	"	"	"	"	"	
Sodium	3.82		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L08063	12/08/2025	12/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.021	"	"	"	"	"	U
Anthracene	ND		0.021	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.021	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.021	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.021	"	"	"	"	"	U

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AST03@0.5'
12/5/2025 7:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.021	mg/kg dry	1	5L08063	12/08/2025	12/08/2025	U
Dibenz (a,h) anthracene	ND		0.021	"	"	"	"	"	U
Fluoranthene	ND		0.021	"	"	"	"	"	U
Fluorene	ND		0.021	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.021	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.021	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	93.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	108 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	91.4			mass percent	1	5L08071	12/08/2025	12/08/2025	
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pH in Soil by 9045D

pH	8.36			pH Units	1	5L08046	12/08/2025	12/09/2025	
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SAR by 20B Saturated Paste

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Jordan Goff
 Project Number: 34536
 Project: Chevron - Richardson 64N64W
 10NWSW

AST03@0.5'
12/5/2025 7:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-02 (Soil)
Origins Laboratory

SAR by 20B Saturated Paste

SAR	3.84		0.0100	SAR	1	5L08033	12/08/2025	12/09/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.645		0.00500	mmhos/cm	1	5L08046	12/08/2025	12/09/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.13		0.210	mg/kg dry	10	5L07019	12/07/2025	12/08/2025	
Barium	274		59.3	"	"	"	"	"	
Cadmium	ND		0.275	"	"	"	"	"	U
Copper	41.4		33.3	"	"	"	"	"	
Lead	30.2		10.1	"	"	"	"	"	
Nickel	ND		18.8	"	"	"	"	"	U
Selenium	0.294		0.178	"	"	"	"	"	
Silver	ND		0.578	"	"	"	"	"	U
Zinc	ND		268	"	"	"	"	"	U

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 Project Number: 34536
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 10NWSW

SEP01-DL@3
 12/5/2025 8:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5L0143-03 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	0.10	0.09	0.22	mg/kg dry	1	BIL0704	12/12/2025	12/15/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.457		0.110	mg/L dry	1	5L08041	12/08/2025	12/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	37.4		27.3	mg/kg dry	1	5L08057	12/08/2025	12/08/2025	
Residual Range Organics (C28-C36)	ND		109	"	"	"	"	"	U
Surrogate: o-Terphenyl	105 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	0.242		0.055	mg/kg dry	25	5L07017	12/07/2025	12/07/2025	
1,3,5-Trimethylbenzene	0.119		0.002	"	1	"	"	12/07/2025	
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	0.009		0.002	"	"	"	"	"	
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	0.281		0.002	"	"	"	"	"	
Gasoline Range Hydrocarbons	27.0		5.49	"	25	"	"	12/07/2025	

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 Project Number: 34536
 Project: Chevron - Richardson 64N64W
 10NWSW

SEP01-DL@3
 12/5/2025 8:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-03 (Soil)
 Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		5L07017	12/07/2025	12/07/2025	
Surrogate: Toluene-d8	99.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.94		0.499	meq/L	10	[CALC]	12/08/2025	12/09/2025	
Magnesium	0.838		0.823	"	"	"	"	"	
Sodium	2.43		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.066		0.002	mg/kg dry	1	5L08063	12/08/2025	12/08/2025	
2-Methylnaphthalene	0.124		0.002	"	"	"	"	"	
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U
Chrysene	ND		0.022	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U

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 Project Number: 34536
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SEP01-DL@3
 12/5/2025 8:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5L0143-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.022	mg/kg dry	1	5L08063	12/08/2025	12/08/2025	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	0.024		0.002	"	"	"	"	"	
Pyrene	ND		0.022	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.8 %				60-130	"	"	"	
Surrogate: Anthracene-d10	96.0 %				60-130	"	"	"	
Surrogate: Pyrene-d10	96.8 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %				60-130	"	"	"	
Percent Solids									
Total Solids, Percent	90.9			mass percent	1	5L08071	12/08/2025	12/08/2025	
pH in Soil by 9045D									
pH	8.01			pH Units	1	5L08046	12/08/2025	12/09/2025	
SAR by 20B Saturated Paste									
SAR	2.06		0.0100	SAR	1	5L08033	12/08/2025	12/09/2025	

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Montrose Environmental
 471 Denver Ave
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Jordan Goff
 Project Number: 34536
 Project: Chevron - Richardson 64N64W
 10NWSW

SEP01-DL@3

12/5/2025 8:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-03 (Soil)

Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.634		0.00500	mmhos/cm	1	5L08046	12/08/2025	12/09/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.10		0.210	mg/kg dry	10	5L07019	12/07/2025	12/08/2025	
Barium	85.3		59.2	"	"	"	"	"	
Cadmium	ND		0.274	"	"	"	"	"	U
Copper	ND		33.2	"	"	"	"	"	U
Lead	ND		10.1	"	"	"	"	"	U
Nickel	ND		18.8	"	"	"	"	"	U
Selenium	ND		0.178	"	"	"	"	"	U
Silver	ND		0.578	"	"	"	"	"	U
Zinc	ND		267	"	"	"	"	"	U

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 Project: Chevron - Richardson 64N64W
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SEP02-DL@3'

12/5/2025 8:12:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5L0143-04 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	0.13	0.09	0.21	mg/kg dry	1	BIL0704	12/12/2025	12/15/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	1.27		0.110	mg/L dry	1	5L08041	12/08/2025	12/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		27.4	mg/kg dry	1	5L08057	12/08/2025	12/08/2025	U
Residual Range Organics (C28-C36)	ND		110	"	"	"	"	"	U
Surrogate: o-Terphenyl	99.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	5L07017	12/07/2025	12/07/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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 Project: Chevron - Richardson 64N64W
 10NWSW

SEP02-DL@3'

12/5/2025 8:12:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-04 (Soil)
 Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.219	mg/kg dry	1	5L07017	12/07/2025	12/07/2025	U
Surrogate: 1,2-Dichloroethane-d4	99.1 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.740		0.499	meq/L	10	[CALC]	12/08/2025	12/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.45		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L08063	12/08/2025	12/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U

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 Project: Chevron - Richardson 64N64W
 10NWSW

SEP02-DL@3

12/5/2025 8:12:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5L0143-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.022	mg/kg dry	1	5L08063	12/08/2025	12/08/2025	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U
Fluoranthene	ND		0.022	"	"	"	"	"	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	90.6			mass percent	1	5L08071	12/08/2025	12/08/2025	
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pH in Soil by 9045D

pH	8.39			pH Units	1	5L08046	12/08/2025	12/09/2025	
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SAR by 20B Saturated Paste

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Jordan Goff
 Project Number: 34536
 Project: Chevron - Richardson 64N64W
 10NWSW

SEP02-DL@3
 12/5/2025 8:12:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5L0143-04 (Soil)									
Origins Laboratory									
SAR by 20B Saturated Paste									
SAR	5.63		0.0100	SAR	1	5L08033	12/08/2025	12/09/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.553		0.00500	mmhos/cm	1	5L08046	12/08/2025	12/09/2025	
Table 915 metals by EPA 6020B									
Arsenic	1.87		0.206	mg/kg dry	10	5L07019	12/07/2025	12/08/2025	
Barium	145		58.1	"	"	"	"	"	
Cadmium	ND		0.269	"	"	"	"	"	U
Copper	ND		32.6	"	"	"	"	"	U
Lead	ND		9.92	"	"	"	"	"	U
Nickel	ND		18.4	"	"	"	"	"	U
Selenium	ND		0.174	"	"	"	"	"	U
Silver	ND		0.567	"	"	"	"	"	U
Zinc	ND		262	"	"	"	"	"	U

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Jordan Goff
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 Project: Chevron - Richardson 64N64W
 10NWSW

*** DEFAULT GENERAL METHOD *** - 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 5L08071 - % Solids

Duplicate (5L08071-DUP1)

Source: E5L0129-01

Prepared: 12/08/2025 Analyzed: 12/08/2025

Total Solids, Percent	70.3		mass percent		70.5			0.309	20	
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Duplicate (5L08071-DUP2)

Source: E5L0129-02

Prepared: 12/08/2025 Analyzed: 12/08/2025

Total Solids, Percent	74.2		mass percent		74.1			0.0452	20	
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 Project: Chevron - Richardson 64N64W
 10NWSW

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 5L08033 - Saturated Paste Metals

Blank (5L08033-BLK1)

Prepared: 12/08/2025 Analyzed: 12/09/2025

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

Duplicate (5L08033-DUP1)

Source: E5L0130-03

Prepared: 12/08/2025 Analyzed: 12/09/2025

SAR	ND	0.0100	SAR	7.85				200		U
Calcium PPM	16.6	10.0	mg/L	14.4				14.5	50	
Magnesium PPM	8.81	10.0	"	6.87				24.7	50	U
Sodium PPM	142	10.0	"	145				1.52	50	

Batch 5L08041 - DTPA Sorbitol Preparation

Blank (5L08041-BLK1)

Prepared: 12/08/2025 Analyzed: 12/09/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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Duplicate (5L08041-DUP1)

Source: E5L0143-01

Prepared: 12/08/2025 Analyzed: 12/09/2025

(DTPA Sorbitol) Boron	0.798	0.110	mg/L dry	0.736				8.04	50	
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 Project: Chevron - Richardson 64N64W
 10NWSW

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 5L08063 - EPA 3580

Blank (5L08063-BLK1)

Prepared: 12/08/2025 Analyzed: 12/08/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							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
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		97.3	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

LCS (5L08063-BS1)

Prepared: 12/08/2025 Analyzed: 12/08/2025

1-Methylnaphthalene	0.162	0.002	mg/kg wet	0.200		81.1	70-130			
2-Methylnaphthalene	0.163	0.002	"	0.200		81.5	70-130			
Acenaphthene	0.166	0.020	"	0.200		82.9	70-130			
Anthracene	0.161	0.020	"	0.200		80.6	70-130			
Benzo (a) anthracene	0.176	0.005	"	0.200		87.8	70-130			
Benzo (a) pyrene	0.168	0.020	"	0.200		83.8	70-130			

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Jordan Goff
 Project Number: 34536
 Project: Chevron - Richardson 64N64W
 10NWSW

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 5L08063 - EPA 3580

LCS (5L08063-BS1)

Prepared: 12/08/2025 Analyzed: 12/08/2025

Benzo (b) fluoranthene	0.168	0.020	mg/kg wet	0.200		84.0	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.4	70-130			
Chrysene	0.172	0.020	"	0.200		85.8	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200		87.4	70-130			
Fluoranthene	0.166	0.020	"	0.200		83.0	70-130			
Fluorene	0.165	0.020	"	0.200		82.6	70-130			
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		88.0	70-130			
Naphthalene	0.164	0.002	"	0.200		82.0	70-130			
Pyrene	0.165	0.020	"	0.200		82.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

Matrix Spike (5L08063-MS1)

Source: E5L0110-01

Prepared: 12/08/2025 Analyzed: 12/09/2025

1-Methylnaphthalene	0.242	0.002	mg/kg dry	0.234	ND	103	70-130			
2-Methylnaphthalene	0.241	0.002	"	0.234	ND	103	70-130			
Acenaphthene	0.234	0.023	"	0.234	ND	100	70-130			
Anthracene	0.218	0.023	"	0.234	ND	93.1	70-130			
Benzo (a) anthracene	0.232	0.006	"	0.234	ND	99.3	70-130			
Benzo (a) pyrene	0.233	0.023	"	0.234	0.001	99.2	70-130			
Benzo (b) fluoranthene	0.252	0.023	"	0.234	0.0009	107	70-130			
Benzo (k) fluoranthene	0.251	0.023	"	0.234	ND	107	70-130			
Chrysene	0.226	0.023	"	0.234	0.0004	96.3	70-130			
Dibenz (a,h) anthracene	0.245	0.023	"	0.234	0.001	104	70-130			
Fluoranthene	0.224	0.023	"	0.234	ND	95.7	70-130			
Fluorene	0.235	0.023	"	0.234	0.001	99.8	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 5L08063 - EPA 3580

Matrix Spike (5L08063-MS1)		Source: E5L0110-01			Prepared: 12/08/2025 Analyzed: 12/09/2025					
Indeno (1,2,3-cd) pyrene	0.244	0.023	mg/kg dry	0.234	0.001	104	70-130			
Naphthalene	0.238	0.002	"	0.234	ND	102	70-130			
Pyrene	0.217	0.023	"	0.234	ND	92.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	190		"	200		92.9	60-130			
Surrogate: Pyrene-d10	190		"	200		95.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (5L08063-MSD1)		Source: E5L0110-01			Prepared: 12/08/2025 Analyzed: 12/08/2025					
1-Methylnaphthalene	0.254	0.002	mg/kg dry	0.234	ND	109	70-130	5.02	20	
2-Methylnaphthalene	0.257	0.002	"	0.234	ND	110	70-130	6.51	20	
Acenaphthene	0.249	0.023	"	0.234	ND	107	70-130	6.31	20	
Anthracene	0.239	0.023	"	0.234	ND	102	70-130	9.11	20	
Benzo (a) anthracene	0.242	0.006	"	0.234	ND	104	70-130	3.99	20	
Benzo (a) pyrene	0.253	0.023	"	0.234	0.001	108	70-130	8.24	20	
Benzo (b) fluoranthene	0.259	0.023	"	0.234	0.0009	110	70-130	2.89	20	
Benzo (k) fluoranthene	0.274	0.023	"	0.234	ND	117	70-130	8.74	20	
Chrysene	0.217	0.023	"	0.234	0.0004	92.8	70-130	3.93	20	
Dibenz (a,h) anthracene	0.266	0.023	"	0.234	0.001	113	70-130	8.03	20	
Fluoranthene	0.233	0.023	"	0.234	ND	99.8	70-130	3.91	20	
Fluorene	0.248	0.023	"	0.234	0.001	106	70-130	5.73	20	
Indeno (1,2,3-cd) pyrene	0.269	0.023	"	0.234	0.001	115	70-130	9.56	20	
Naphthalene	0.251	0.002	"	0.234	ND	108	70-130	5.35	20	
Pyrene	0.225	0.023	"	0.234	ND	96.2	70-130	3.45	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	190		"	200		92.5	60-130			

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 Project: Chevron - Richardson 64N64W
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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 5L08063 - EPA 3580

Matrix Spike Dup (5L08063-MSD1)

Source: E5L0110-01

Prepared: 12/08/2025 Analyzed: 12/08/2025

Surrogate: Benzo (a) pyrene-d12	220		ug/kg	200	108	60-130				
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 Project: Chevron - Richardson 64N64W
 10NWSW

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 5L08057 - EPA 3550B

Prepared: 12/08/2025 Analyzed: 12/08/2025

Blank (5L08057-BLK1)

Diesel (C10-C28)	ND	25.2	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	101	"							U
Surrogate: o-Terphenyl	25		"	25.1		99.7	50-150			

LCS (5L08057-BS1)

Prepared: 12/08/2025 Analyzed: 12/08/2025

Diesel (C10-C28)	1000	50.3	mg/kg wet	1010		99.9	70-130			
Residual Range Organics (C28-C36)	949	201	"	1010		94.4	70-130			
Surrogate: o-Terphenyl	58		"	50.1		117	50-150			

Matrix Spike (5L08057-MS1)

Source: E5L0143-01

Prepared: 12/08/2025 Analyzed: 12/08/2025

Diesel (C10-C28)	1060	54.7	mg/kg dry	1090	ND	96.8	70-130			
Residual Range Organics (C28-C36)	1030	219	"	1090	ND	94.2	70-130			
Surrogate: o-Terphenyl	62		"	54.4		113	50-150			

Matrix Spike Dup (5L08057-MSD1)

Source: E5L0143-01

Prepared: 12/08/2025 Analyzed: 12/08/2025

Diesel (C10-C28)	1230	54.8	mg/kg dry	1100	ND	112	70-130	15.0	35	
Residual Range Organics (C28-C36)	1220	219	"	1100	ND	112	70-130	17.1	35	
Surrogate: o-Terphenyl	67		"	54.5		123	50-150			

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 Project: Chevron - Richardson 64N64W
 10NWSW

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 5L07019 - EPA 3050B

Blank (5L07019-BLK1)

Prepared: 12/07/2025 Analyzed: 12/08/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

LCS (5L07019-BS1)

Prepared: 12/07/2025 Analyzed: 12/08/2025

Arsenic	5.39	0.218	mg/kg wet	5.00		108	80-120			
Barium	552	61.5	"	500		110	80-120			
Cadmium	5.42	0.285	"	5.00		108	80-120			
Copper	52.9	34.5	"	50.0		106	80-120			
Lead	5.40	10.5	"	5.00		108	80-120			U
Nickel	5.78	19.5	"	5.00		116	80-120			U
Selenium	5.48	0.184	"	5.00		110	80-120			
Silver	5.88	0.600	"	5.00		118	80-120			
Zinc	52.2	278	"	50.0		104	80-120			U

Matrix Spike (5L07019-MS1)

Source: E5L0129-01

Prepared: 12/07/2025 Analyzed: 12/08/2025

Arsenic	18.2	0.267	mg/kg dry	6.13	11.8	104	75-125			
Barium	1310	75.4	"	613	781	86.7	75-125			
Cadmium	6.54	0.349	"	6.13	0.321	102	75-125			
Copper	92.6	42.3	"	61.3	33.5	96.3	75-125			
Lead	29.0	12.9	"	6.13	23.9	82.9	75-125			

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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 5L07019 - EPA 3050B

Matrix Spike (5L07019-MS1)

Source: E5L0129-01

Prepared: 12/07/2025 Analyzed: 12/08/2025

Nickel	34.4	23.9	mg/kg dry	6.13	30.2	68.2	75-125			QM-4X
Selenium	6.09	0.226	"	6.13	0.439	92.2	75-125			
Silver	6.77	0.736	"	6.13	0.0898	109	75-125			
Zinc	185	340	"	61.3	128	94.3	75-125			U

Matrix Spike Dup (5L07019-MSD1)

Source: E5L0129-01

Prepared: 12/07/2025 Analyzed: 12/08/2025

Arsenic	16.9	0.273	mg/kg dry	6.27	11.8	80.6	75-125	7.43	20	
Barium	1200	77.1	"	627	781	66.7	75-125	9.00	20	QM-07
Cadmium	6.09	0.357	"	6.27	0.321	92.0	75-125	7.22	20	
Copper	85.2	43.2	"	62.7	33.5	82.4	75-125	8.35	20	
Lead	26.5	13.2	"	6.27	23.9	41.8	75-125	8.86	20	QM-4X
Nickel	32.2	24.4	"	6.27	30.2	32.0	75-125	6.53	20	QM-4X
Selenium	5.89	0.231	"	6.27	0.439	87.0	75-125	3.26	20	
Silver	6.26	0.752	"	6.27	0.0898	98.5	75-125	7.82	20	
Zinc	170	348	"	62.7	128	67.8	75-125	8.63	20	QM-07, U

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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 5L08046 - Saturated Paste pH/EC

Blank (5L08046-BLK1)

Prepared: 12/08/2025 Analyzed: 12/09/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (5L08046-DUP1)

Source: E5L0130-03

Prepared: 12/08/2025 Analyzed: 12/09/2025

pH	8.30		pH Units		8.27		0.362		25	
Specific Conductance (EC)	1.09	0.00500	mmhos/cm		1.28		15.8		25	

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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 5L07017 - EPA 5030 (soil)

Prepared: 12/07/2025 Analyzed: 12/07/2025

Blank (5L07017-BLK1)

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

LCS (5L07017-BS1)

Prepared: 12/07/2025 Analyzed: 12/07/2025

1,2,4-Trimethylbenzene	0.085	0.002	mg/kg wet	0.100		85.3	70-130			
1,3,5-Trimethylbenzene	0.084	0.002	"	0.100		83.6	70-130			
Benzene	0.087	0.002	"	0.100		87.1	70-130			
Ethylbenzene	0.091	0.002	"	0.100		91.5	70-130			
Naphthalene	0.080	0.004	"	0.100		80.1	70-130			
Toluene	0.086	0.002	"	0.100		86.2	70-130			
o-Xylene	0.089	0.002	"	0.100		89.2	70-130			
m,p-Xylene	0.179	0.004	"	0.200		89.6	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

Matrix Spike (5L07017-MS1)

Source: E5L0130-01

Prepared: 12/07/2025 Analyzed: 12/07/2025

1,2,4-Trimethylbenzene	0.107	0.003	mg/kg dry	0.149	ND	72.0	70-130			
1,3,5-Trimethylbenzene	0.106	0.003	"	0.149	ND	71.3	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 5L07017 - EPA 5030 (soil)

Matrix Spike (5L07017-MS1)

Source: E5L0130-01

Prepared: 12/07/2025 Analyzed: 12/07/2025

Benzene	0.116	0.003	mg/kg dry	0.149	ND	77.8	70-130			
Ethylbenzene	0.117	0.003	"	0.149	ND	79.0	70-130			
Naphthalene	0.108	0.006	"	0.149	ND	72.8	70-130			
Toluene	0.115	0.003	"	0.149	ND	77.6	70-130			
o-Xylene	0.113	0.003	"	0.149	ND	75.8	70-130			
m,p-Xylene	0.230	0.006	"	0.297	ND	77.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.186		92.5	70-130			
Surrogate: Toluene-d8	0.18		"	0.186		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.18		"	0.186		98.5	70-130			

Matrix Spike Dup (5L07017-MSD1)

Source: E5L0130-01

Prepared: 12/07/2025 Analyzed: 12/07/2025

1,2,4-Trimethylbenzene	0.120	0.003	mg/kg dry	0.150	ND	79.6	70-130	11.2	20	
1,3,5-Trimethylbenzene	0.118	0.003	"	0.150	ND	78.5	70-130	10.8	20	
Benzene	0.131	0.003	"	0.150	ND	87.4	70-130	12.8	20	
Ethylbenzene	0.129	0.003	"	0.150	ND	86.0	70-130	9.69	20	
Naphthalene	0.130	0.006	"	0.150	ND	86.2	70-130	18.0	20	
Toluene	0.127	0.003	"	0.150	ND	84.7	70-130	9.93	20	
o-Xylene	0.126	0.003	"	0.150	ND	84.1	70-130	11.5	20	
m,p-Xylene	0.255	0.006	"	0.301	ND	84.8	70-130	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.18		"	0.188		94.8	70-130			
Surrogate: Toluene-d8	0.18		"	0.188		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.18		"	0.188		97.4	70-130			

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TOTAL METALS BY SW7199 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BIL0704 - No Prep IC-WET

Blank (BIL0704-BLK1)

Prepared: 12/12/2025 Analyzed: 12/15/2025

Chromium, Hexavalent ND 0.005 mg/kg wet dry

LCS (BIL0704-BS1)

Prepared: 12/12/2025 Analyzed: 12/15/2025

Chromium, Hexavalent 0.05 0.005 mg/kg wet dry 0.0500 108 80-120

LCS (BIL0704-BS2)

Prepared: 12/12/2025 Analyzed: 12/15/2025

Chromium, Hexavalent 11.2 1.00 mg/kg wet dry 9.33 120 80-120

Duplicate (BIL0704-DUP1)

Source: 25L0953-07

Prepared: 12/12/2025 Analyzed: 12/15/2025

Chromium, Hexavalent ND 0.21 mg/kg dry ND - 20

Matrix Spike (BIL0704-MS1)

Source: 25L0953-07

Prepared: 12/12/2025 Analyzed: 12/15/2025

Chromium, Hexavalent 2.26 0.21 mg/kg dry 2.12 ND 106 75-125

Matrix Spike (BIL0704-MS2)

Source: 25L0953-07

Prepared: 12/12/2025 Analyzed: 12/15/2025

Chromium, Hexavalent 54.4 ppb dry 50.0 0.00 109 75-125

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Notes and Definitions

- U Sample is Non-Detect.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J The reported result is an estimated value.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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