

# ORIGINS LABORATORY

Entrada Consulting Group

Zach Solow

330 Grand Ave. Unit C

Grand Junction CO 81501

September 04, 2025

**Project Name - Chevron - Kielian 2-2 WH**

**Project Number - [none]**

Attached are your analytical results for Chevron - Kielian 2-2 WH received by Origins Laboratory August 14, 2025. This project is associated with Origins project number E5H0327-01.

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



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Zach Solow  
Project Number: [none]  
Project: Chevron - Kielian 2-2 WH

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX01-2	E5H0327-01	Soil	August 14, 2025 10:00	08/14/2025 12:22
EX02-2	E5H0327-02	Soil	August 14, 2025 10:30	08/14/2025 12:22
EX04-2	E5H0327-03	Soil	August 14, 2025 10:10	08/14/2025 12:22
SS4-2	E5H0327-04	Soil	August 14, 2025 9:40	08/14/2025 12:22
SB01-5	E5H0327-05	Soil	August 14, 2025 10:15	08/14/2025 12:22
EX05-3	E5H0327-06	Soil	August 14, 2025 9:50	08/14/2025 12:22
EX06-3	E5H0327-07	Soil	August 14, 2025 10:45	08/14/2025 12:22

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330 Grand Ave. Unit C  
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Project Number: [none]  
Project: Chevron - Kielian 2-2 WH

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: EGH037

Client: Entrada

Client Project ID: Kielian 2-2 WH

Checklist Completed by: SMC/NKM

Shipped Via: HD

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

Date/time completed: 8/15/25

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3.8 °C (Describe)

Thermometer ID: T002

Requirement/Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> 1/4 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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / pH > 10 for samples preserved with Na <sub>2</sub> O <sub>2</sub> +NaOH, ZnAc+NaCl)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

08/18/25  
Date/Time Reviewed

Origins Laboratory

*EGH*

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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX01-2**

**8/14/2025 10:00:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-01 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by EPA 7199</b>									
Hexavalent Chromium	ND	0.19	0.36	mg/Kg dry	1	379967	08/21/2025	08/22/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	2.97		0.0995	mg/L	1	B5H1507	08/15/2025	08/18/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		30.5	mg/kg dry	1	B5H1502	08/15/2025	08/15/2025	U
Residual Range Organics (C28-C36)	ND		122	"	"	"	"	"	U
Surrogate: o-Terphenyl	64.2 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	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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**EX01-2**

**8/14/2025 10:00:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	ND		0.244	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	U
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %			70-130		"	"	"	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	26.5		0.499	meq/L	10	[CALC]	08/15/2025	08/18/2025	
Magnesium	39.3		0.823	"	"	"	"	"	
Sodium	44.9		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U

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**EX01-2**

**8/14/2025 10:00:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-01 (Soil)  
 Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.024	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	81.9			mass percent	1	B5H1537	08/15/2025	08/19/2025	
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**pH in Soil by 9045D**

pH	7.80			pH Units	1	B5H1512	08/15/2025	08/16/2025	
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**SAR by 20B Saturated Paste**

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**EX01-2**

**8/14/2025 10:00:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	7.82		0.0100	SAR	1	B5H1504	08/15/2025	08/18/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	9.69		0.00500	mmhos/cm	1	B5H1512	08/15/2025	08/16/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	5.64		0.340	mg/kg dry	10	B5H1541	08/15/2025	08/19/2025	
Barium	279		96.2	"	"	"	"	"	
Cadmium	ND		0.446	"	"	"	"	"	U
Copper	ND		54.0	"	"	"	"	"	U
Lead	17.2		16.4	"	"	"	"	"	
Nickel	ND		30.5	"	"	"	"	"	U
Selenium	0.899		0.305	"	"	"	"	"	
Silver	ND		0.938	"	"	"	"	"	U
Zinc	ND		434	"	"	"	"	"	U

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**EX02-2**

**8/14/2025 10:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-02 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by EPA 7199</b>									
Hexavalent Chromium	ND	0.17	0.32	mg/Kg dry	1	379967	08/21/2025	08/22/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.623		0.100	mg/L	1	B5H1507	08/15/2025	08/18/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		27.9	mg/kg dry	1	B5H1502	08/15/2025	08/15/2025	U
Residual Range Organics (C28-C36)	ND		112	"	"	"	"	"	U
Surrogate: o-Terphenyl	72.6 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	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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**EX02-2**

**8/14/2025 10:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-02 (Soil)  
 Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.223	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	U
Surrogate: 1,2-Dichloroethane-d4	100 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	8.10		0.499	meq/L	10	[CALC]	08/15/2025	08/18/2025	
Magnesium	5.34		0.823	"	"	"	"	"	
Sodium	12.5		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	0.008		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

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**EX02-2**

**8/14/2025 10:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Dibenz (a,h) anthracene	ND		0.022	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	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	99.1 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
<b>Percent Solids</b>									
Total Solids, Percent	89.6			mass percent	1	B5H1537	08/15/2025	08/19/2025	
<b>pH in Soil by 9045D</b>									
pH	7.96			pH Units	1	B5H1512	08/15/2025	08/16/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	4.84		0.0100	SAR	1	B5H1504	08/15/2025	08/18/2025	

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**EX02-2**

**8/14/2025 10:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	2.80		0.00500	mmhos/cm	1	B5H1512	08/15/2025	08/16/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.27		0.302	mg/kg dry	10	B5H1541	08/15/2025	08/19/2025	
Barium	94.6		85.4	"	"	"	"	"	
Cadmium	ND		0.396	"	"	"	"	"	U
Copper	ND		47.9	"	"	"	"	"	U
Lead	ND		14.6	"	"	"	"	"	U
Nickel	ND		27.1	"	"	"	"	"	U
Selenium	0.275		0.271	"	"	"	"	"	
Silver	ND		0.833	"	"	"	"	"	U
Zinc	ND		385	"	"	"	"	"	U

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 Project Number: [none]  
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**EX04-2**

**8/14/2025 10:10:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-03 (Soil)  
 Enthalpy Orange**

**Total Metals by EPA 7199**

Hexavalent Chromium	ND	0.19	0.36	mg/Kg dry	1	379967	08/21/2025	08/22/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	2.71		0.101	mg/L	1	B5H1507	08/15/2025	08/18/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		30.5	mg/kg dry	1	B5H1502	08/15/2025	08/15/2025	U
Residual Range Organics (C28-C36)	ND		122	"	"	"	"	"	U

Surrogate: o-Terphenyl	61.0 %				50-150	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	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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**EX04-2**

**8/14/2025 10:10:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-03 (Soil)  
 Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.244	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	U
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	92.6 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	23.6		0.499	meq/L	10	[CALC]	08/15/2025	08/18/2025	
Magnesium	21.1		0.823	"	"	"	"	"	
Sodium	11.8		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U

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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX04-2**

**8/14/2025 10:10:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-03 (Soil)  
 Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.024	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.1 %				60-130	"	"	"	
Surrogate: Anthracene-d10	97.1 %				60-130	"	"	"	
Surrogate: Pyrene-d10	95.5 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %				60-130	"	"	"	

**Percent Solids**

Total Solids, Percent	81.9			mass percent	1	B5H1537	08/15/2025	08/19/2025	
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**pH in Soil by 9045D**

pH	7.70			pH Units	1	B5H1512	08/15/2025	08/16/2025	
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**SAR by 20B Saturated Paste**

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**EX04-2**

**8/14/2025 10:10:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	2.50		0.0100	SAR	1	B5H1504	08/15/2025	08/18/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	4.99		0.00500	mmhos/cm	1	B5H1512	08/15/2025	08/16/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	4.78		0.343	mg/kg dry	10	B5H1541	08/15/2025	08/19/2025	
Barium	104		97.1	"	"	"	"	"	
Cadmium	ND		0.450	"	"	"	"	"	U
Copper	ND		54.5	"	"	"	"	"	U
Lead	ND		16.6	"	"	"	"	"	U
Nickel	ND		30.8	"	"	"	"	"	U
Selenium	0.473		0.308	"	"	"	"	"	
Silver	ND		0.947	"	"	"	"	"	U
Zinc	ND		438	"	"	"	"	"	U

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**SS4-2**

**8/14/2025 9:40:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-04 (Soil)  
 Enthalpy Orange**

**Total Metals by EPA 7199**

Hexavalent Chromium	ND	0.19	0.36	mg/Kg dry	1	379967	08/21/2025	08/22/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	1.32		0.0997	mg/L	1	B5H1507	08/15/2025	08/18/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		30.6	mg/kg dry	1	B5H1502	08/15/2025	08/15/2025	U
Residual Range Organics (C28-C36)	ND		122	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.5 %			50-150		"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	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 Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**SS4-2**

**8/14/2025 9:40:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-04 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	ND		0.245	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	U
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	92.2 %			70-130		"	"	"	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	6.92		0.499	meq/L	10	[CALC]	08/15/2025	08/18/2025	
Magnesium	7.07		0.823	"	"	"	"	"	
Sodium	7.76		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.025	"	"	"	"	"	U
Anthracene	ND		0.025	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.025	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.025	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.025	"	"	"	"	"	U

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**SS4-2**

**8/14/2025 9:40:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-04 (Soil)  
 Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.025	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
Dibenz (a,h) anthracene	ND		0.025	"	"	"	"	"	U
Fluoranthene	ND		0.025	"	"	"	"	"	U
Fluorene	ND		0.025	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.025	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.025	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.8 %				60-130	"	"	"	
Surrogate: Anthracene-d10	97.3 %				60-130	"	"	"	
Surrogate: Pyrene-d10	96.0 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %				60-130	"	"	"	

**Percent Solids**

Total Solids, Percent	81.6			mass percent	1	B5H1537	08/15/2025	08/19/2025	
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**pH in Soil by 9045D**

pH	7.93			pH Units	1	B5H1512	08/15/2025	08/16/2025	
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**SAR by 20B Saturated Paste**

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 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**SS4-2**

**8/14/2025 9:40:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-04 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	2.93		0.0100	SAR	1	B5H1504	08/15/2025	08/18/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	3.41		0.00500	mmhos/cm	1	B5H1512	08/15/2025	08/16/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	6.35		0.309	mg/kg dry	10	B5H1541	08/15/2025	08/19/2025	
Barium	247		87.5	"	"	"	"	"	
Cadmium	ND		0.405	"	"	"	"	"	U
Copper	ND		49.1	"	"	"	"	"	U
Lead	ND		14.9	"	"	"	"	"	U
Nickel	ND		27.7	"	"	"	"	"	U
Selenium	1.17		0.277	"	"	"	"	"	
Silver	ND		0.854	"	"	"	"	"	U
Zinc	ND		395	"	"	"	"	"	U

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 Project: Chevron - Kielian 2-2 WH

**SB01-5**

**8/14/2025 10:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-05 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by EPA 7199</b>									
Hexavalent Chromium	ND	0.17	0.33	mg/Kg dry	1	379967	08/21/2025	08/22/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.443		0.100	mg/L	1	B5H1507	08/15/2025	08/18/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		27.4	mg/kg dry	1	B5H1502	08/15/2025	08/15/2025	U
Residual Range Organics (C28-C36)	ND		110	"	"	"	"	"	U
Surrogate: o-Terphenyl	63.7 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H1519	08/15/2025	08/16/2025	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 Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**SB01-5**

**8/14/2025 10:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-05 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.219	mg/kg dry	1	B5H1519	08/15/2025	08/16/2025	U
Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		"	"	"	
Surrogate: Toluene-d8	91.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.95		0.499	meq/L	10	[CALC]	08/15/2025	08/18/2025	
Magnesium	2.46		0.823	"	"	"	"	"	
Sodium	2.88		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	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 Number: [none]  
 Project: Chevron - Kielian 2-2 WH

SB01-5

8/14/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-05 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.022	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	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	98.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	91.3			mass percent	1	B5H1537	08/15/2025	08/19/2025	
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**pH in Soil by 9045D**

pH	7.78			pH Units	1	B5H1512	08/15/2025	08/16/2025	
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**SAR by 20B Saturated Paste**

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 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**SB01-5**

**8/14/2025 10:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-05 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	1.75		0.0100	SAR	1	B5H1504	08/15/2025	08/18/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.07		0.00500	mmhos/cm	1	B5H1512	08/15/2025	08/16/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.88		0.276	mg/kg dry	10	B5H1541	08/15/2025	08/19/2025	
Barium	88.3		78.0	"	"	"	"	"	
Cadmium	ND		0.361	"	"	"	"	"	U
Copper	ND		43.7	"	"	"	"	"	U
Lead	ND		13.3	"	"	"	"	"	U
Nickel	ND		24.7	"	"	"	"	"	U
Selenium	0.353		0.247	"	"	"	"	"	
Silver	ND		0.761	"	"	"	"	"	U
Zinc	ND		352	"	"	"	"	"	U

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 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX05-3**

**8/14/2025 9:50:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-06 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by EPA 7199</b>									
Hexavalent Chromium	ND	0.18	0.35	mg/Kg dry	1	379967	08/21/2025	08/22/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.331		0.100	mg/L	1	B5H1507	08/15/2025	08/18/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		30.3	mg/kg dry	1	B5H1502	08/15/2025	08/15/2025	U
Residual Range Organics (C28-C36)	ND		121	"	"	"	"	"	U
Surrogate: o-Terphenyl	63.7 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H1519	08/15/2025	08/16/2025	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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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX05-3**

**8/14/2025 9:50:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-06 (Soil)  
 Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.242	mg/kg dry	1	B5H1519	08/15/2025	08/16/2025	U
Surrogate: 1,2-Dichloroethane-d4	116 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	86.2 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	10.9		0.499	meq/L	10	[CALC]	08/15/2025	08/18/2025	
Magnesium	16.0		0.823	"	"	"	"	"	
Sodium	13.3		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U

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 Grand Junction CO 81501

Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX05-3**

**8/14/2025 9:50:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-06 (Soil)  
 Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.024	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %				60-130	"	"	"	
Surrogate: Anthracene-d10	98.2 %				60-130	"	"	"	
Surrogate: Pyrene-d10	97.1 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %				60-130	"	"	"	

**Percent Solids**

Total Solids, Percent	82.5			mass percent	1	B5H1537	08/15/2025	08/19/2025	
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**pH in Soil by 9045D**

pH	7.78			pH Units	1	B5H1512	08/15/2025	08/16/2025	
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**SAR by 20B Saturated Paste**

Origins Laboratory

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 Grand Junction CO 81501

Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX05-3**

**8/14/2025 9:50:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-06 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	3.64		0.0100	SAR	1	B5H1504	08/15/2025	08/18/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	4.21		0.00500	mmhos/cm	1	B5H1512	08/15/2025	08/16/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	5.09		0.330	mg/kg dry	10	B5H1541	08/15/2025	08/19/2025	
Barium	174		93.4	"	"	"	"	"	
Cadmium	ND		0.433	"	"	"	"	"	U
Copper	ND		52.4	"	"	"	"	"	U
Lead	ND		15.9	"	"	"	"	"	U
Nickel	ND		29.6	"	"	"	"	"	U
Selenium	0.577		0.296	"	"	"	"	"	
Silver	ND		0.911	"	"	"	"	"	U
Zinc	ND		421	"	"	"	"	"	U

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**EX06-3**

**8/14/2025 10:45:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-07 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by EPA 7199</b>									
Hexavalent Chromium	ND	0.17	0.33	mg/Kg dry	1	379967	08/21/2025	08/22/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.610		0.0994	mg/L	1	B5H1507	08/15/2025	08/18/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		28.5	mg/kg dry	1	B5H1502	08/15/2025	08/15/2025	U
Residual Range Organics (C28-C36)	ND		114	"	"	"	"	"	U
Surrogate: o-Terphenyl	72.5 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	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 Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX06-3**

**8/14/2025 10:45:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-07 (Soil)  
 Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.228	mg/kg dry	1	B5H1519	08/15/2025	08/15/2025	U
Surrogate: 1,2-Dichloroethane-d4	97.3 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	89.5 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	4.10		0.499	meq/L	10	[CALC]	08/15/2025	08/18/2025	
Magnesium	3.40		0.823	"	"	"	"	"	
Sodium	4.25		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U

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 Grand Junction CO 81501

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 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX06-3**

**8/14/2025 10:45:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0327-07 (Soil)  
 Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.023	mg/kg dry	1	B5H1532	08/15/2025	08/15/2025	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	87.9			mass percent	1	B5H1537	08/15/2025	08/19/2025	
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**pH in Soil by 9045D**

pH	8.06			pH Units	1	B5H1512	08/15/2025	08/16/2025	
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**SAR by 20B Saturated Paste**

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 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**EX06-3**

**8/14/2025 10:45:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0327-07 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	2.20		0.0100	SAR	1	B5H1504	08/15/2025	08/18/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.43		0.00500	mmhos/cm	1	B5H1512	08/15/2025	08/16/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	5.57		0.321	mg/kg dry	10	B5H1541	08/15/2025	08/19/2025	
Barium	108		90.9	"	"	"	"	"	
Cadmium	ND		0.421	"	"	"	"	"	U
Copper	ND		51.0	"	"	"	"	"	U
Lead	ND		15.5	"	"	"	"	"	U
Nickel	ND		28.8	"	"	"	"	"	U
Selenium	0.380		0.288	"	"	"	"	"	
Silver	ND		0.887	"	"	"	"	"	U
Zinc	ND		410	"	"	"	"	"	U

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 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

\*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 B5H1537 - % Solids

Duplicate (B5H1537-DUP1)

Source: E5H0330-06

Prepared: 08/15/2025 Analyzed: 08/19/2025

Total Solids, Percent	96.3		mass percent		95.6			0.657	200	
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Duplicate (B5H1537-DUP2)

Source: E5H0330-01

Prepared: 08/15/2025 Analyzed: 08/19/2025

Total Solids, Percent	87.5		mass percent		87.8			0.364	200	
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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1504 - Saturated Paste Metals**

**Blank (B5H1504-BLK1)**

Prepared: 08/15/2025 Analyzed: 08/18/2025

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

**Duplicate (B5H1504-DUP1)**

Source: E5H0324-01

Prepared: 08/15/2025 Analyzed: 08/18/2025

Calcium PPM	45.1	10.0	mg/L		44.8		0.645	50		
SAR	ND	0.0100	SAR		0.158			200		U
Magnesium PPM	6.85	10.0	mg/L		6.91		0.872	50		U
Sodium PPM	3.48	10.0	"		4.30		21.1	50		U

**Batch B5H1507 - DTPA Sorbitol Preparation**

**Blank (B5H1507-BLK1)**

Prepared: 08/15/2025 Analyzed: 08/18/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L							U
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**Duplicate (B5H1507-DUP1)**

Source: E5H0324-01

Prepared: 08/15/2025 Analyzed: 08/18/2025

(DTPA Sorbitol) Boron	0.442	0.0999	mg/L		0.404		9.02	50		
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 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1532 - EPA 3580**

**Blank (B5H1532-BLK1)**

Prepared: 08/15/2025 Analyzed: 08/15/2025

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 (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Pyrene-d10	190		"	200		96.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**LCS (B5H1532-BS1)**

Prepared: 08/15/2025 Analyzed: 08/15/2025

1-Methylnaphthalene	0.206	0.002	mg/kg wet	0.200		103	70-130			
2-Methylnaphthalene	0.223	0.002	"	0.200		112	70-130			
Acenaphthene	0.194	0.020	"	0.200		96.9	70-130			
Anthracene	0.185	0.020	"	0.200		92.5	70-130			

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1532 - EPA 3580**

**LCS (B5H1532-BS1)**

Prepared: 08/15/2025 Analyzed: 08/15/2025

Benzo (a) anthracene	0.184	0.005	mg/kg wet	0.200		91.9	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200		92.3	70-130			
Benzo (b) fluoranthene	0.188	0.020	"	0.200		93.9	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200		98.6	70-130			
Benzo (k) fluoranthene	0.190	0.020	"	0.200		94.9	70-130			
Chrysene	0.195	0.020	"	0.200		97.6	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200		98.9	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.4	70-130			
Fluorene	0.189	0.020	"	0.200		94.4	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200		99.3	70-130			
Naphthalene	0.195	0.002	"	0.200		97.3	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.6	70-130			
Pyrene	0.191	0.020	"	0.200		95.3	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**Matrix Spike (B5H1532-MS1)**

**Source: E5H0306-01**

Prepared: 08/15/2025 Analyzed: 08/15/2025

1-Methylnaphthalene	0.215	0.002	mg/kg wet	0.200	ND	108	70-130			
2-Methylnaphthalene	0.233	0.002	"	0.200	ND	117	70-130			
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130			
Anthracene	0.190	0.020	"	0.200	0.002	94.5	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200	ND	94.2	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200	0.002	103	70-130			
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.001	106	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	0.003	108	70-130			

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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1532 - EPA 3580**

**Matrix Spike (B5H1532-MS1)**

Source: E5H0306-01

Prepared: 08/15/2025 Analyzed: 08/15/2025

Benzo (k) fluoranthene	0.205	0.020	mg/kg wet	0.200	0.001	102	70-130			
Chrysene	0.195	0.020	"	0.200	0.002	97.0	70-130			
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	0.002	109	70-130			
Fluoranthene	0.199	0.020	"	0.200	0.0007	99.3	70-130			
Fluorene	0.195	0.020	"	0.200	0.0006	97.0	70-130			
Indeno (1,2,3-cd) pyrene	0.215	0.020	"	0.200	0.002	106	70-130			
Naphthalene	0.214	0.002	"	0.200	0.012	101	70-130			
Phenanthrene	0.198	0.020	"	0.200	0.001	98.7	70-130			
Pyrene	0.198	0.020	"	0.200	0.0009	98.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.0	60-130			
Surrogate: Pyrene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike Dup (B5H1532-MSD1)**

Source: E5H0306-01

Prepared: 08/15/2025 Analyzed: 08/15/2025

1-Methylnaphthalene	0.214	0.002	mg/kg wet	0.200	ND	107	70-130	0.817	20	
2-Methylnaphthalene	0.232	0.002	"	0.200	ND	116	70-130	0.735	20	
Acenaphthene	0.200	0.020	"	0.200	ND	100	70-130	0.896	20	
Anthracene	0.195	0.020	"	0.200	0.002	96.9	70-130	2.58	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	ND	94.7	70-130	0.510	20	
Benzo (a) pyrene	0.210	0.020	"	0.200	0.002	104	70-130	1.58	20	
Benzo (b) fluoranthene	0.229	0.020	"	0.200	0.001	114	70-130	7.37	20	
Benzo (g,h,i) perylene	0.220	0.020	"	0.200	0.003	109	70-130	1.15	20	
Benzo (k) fluoranthene	0.208	0.020	"	0.200	0.001	103	70-130	1.36	20	
Chrysene	0.197	0.020	"	0.200	0.002	97.6	70-130	0.626	20	
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	0.002	110	70-130	1.22	20	
Fluoranthene	0.199	0.020	"	0.200	0.0007	99.3	70-130	0.0198	20	

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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1532 - EPA 3580

Matrix Spike Dup (B5H1532-MSD1)

Source: E5H0306-01

Prepared: 08/15/2025 Analyzed: 08/15/2025

Fluorene	0.194	0.020	mg/kg wet	0.200	0.0006	96.6	70-130	0.400	20	
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	0.002	109	70-130	2.67	20	
Naphthalene	0.212	0.002	"	0.200	0.012	99.9	70-130	0.710	20	
Phenanthrene	0.202	0.020	"	0.200	0.001	101	70-130	1.96	20	
Pyrene	0.197	0.020	"	0.200	0.0009	98.0	70-130	0.540	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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
<b>Batch B5H1502 - EPA 3550B</b>										
<b>Blank (B5H1502-BLK1)</b>										
Prepared: 08/15/2025 Analyzed: 08/15/2025										
Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		71.3	50-150			
<b>LCS (B5H1502-BS1)</b>										
Prepared: 08/15/2025 Analyzed: 08/15/2025										
Diesel (C10-C28)	966	50.0	mg/kg wet	1000		96.6	70-130			
Residual Range Organics (C28-C36)	968	200	"	1000		96.8	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.2	50-150			
<b>Matrix Spike (B5H1502-MS1)</b>										
<b>Source: E5H0310-01</b>										
Prepared: 08/15/2025 Analyzed: 08/15/2025										
Diesel (C10-C28)	968	50.0	mg/kg wet	1000	ND	96.8	70-130			
Residual Range Organics (C28-C36)	986	200	"	1000	ND	98.6	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.5	50-150			
<b>Matrix Spike Dup (B5H1502-MSD1)</b>										
<b>Source: E5H0310-01</b>										
Prepared: 08/15/2025 Analyzed: 08/15/2025										
Diesel (C10-C28)	864	50.0	mg/kg wet	1000	ND	86.4	70-130	11.3	35	
Residual Range Organics (C28-C36)	890	200	"	1000	ND	89.0	70-130	10.2	35	
Surrogate: o-Terphenyl	35		"	49.8		71.3	50-150			

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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1541 - EPA 3050B**

**Blank (B5H1541-BLK1)**

Prepared: 08/15/2025 Analyzed: 08/19/2025

Arsenic	ND	0.290	mg/kg wet							U
Barium	ND	82.0	"							U
Cadmium	ND	0.380	"							U
Copper	ND	46.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.800	"							U
Zinc	ND	370	"							U

**LCS (B5H1541-BS1)**

Prepared: 08/15/2025 Analyzed: 08/19/2025

Arsenic	4.41	0.290	mg/kg wet	5.00		88.1	80-120			
Barium	492	82.0	"	500		98.5	80-120			
Cadmium	4.92	0.380	"	5.00		98.4	80-120			
Copper	48.1	46.0	"	50.0		96.2	80-120			
Lead	4.96	14.0	"	5.00		99.1	80-120			U
Nickel	4.62	26.0	"	5.00		92.3	80-120			U
Selenium	5.11	0.260	"	5.00		102	80-120			
Silver	4.64	0.800	"	5.00		92.7	80-120			
Zinc	49.6	370	"	50.0		99.3	80-120			U

**Matrix Spike (B5H1541-MS1)**

Source: E5H0348-01

Prepared: 08/15/2025 Analyzed: 08/19/2025

Arsenic	6.18	0.298	mg/kg dry	5.14	1.78	85.6	75-125			
Barium	569	84.3	"	514	53.8	100	75-125			
Cadmium	5.63	0.391	"	5.14	0.306	104	75-125			
Copper	55.7	47.3	"	51.4	4.79	99.0	75-125			
Lead	28.6	14.4	"	5.14	20.5	159	75-125			QM-07

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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1541 - EPA 3050B

**Matrix Spike (B5H1541-MS1)**

Source: E5H0348-01

Prepared: 08/15/2025 Analyzed: 08/19/2025

Nickel	7.66	26.7	mg/kg dry	5.14	3.09	88.8	75-125			U
Selenium	5.41	0.267	"	5.14	0.199	101	75-125			
Silver	4.96	0.823	"	5.14	0.0230	95.9	75-125			
Zinc	99.2	381	"	51.4	48.2	99.3	75-125			U

**Matrix Spike Dup (B5H1541-MSD1)**

Source: E5H0348-01

Prepared: 08/15/2025 Analyzed: 08/19/2025

Arsenic	6.39	0.287	mg/kg dry	4.94	1.78	93.2	75-125	3.25	20	
Barium	583	81.1	"	494	53.8	107	75-125	2.40	20	
Cadmium	5.49	0.376	"	4.94	0.306	105	75-125	2.52	20	
Copper	57.8	45.5	"	49.4	4.79	107	75-125	3.64	20	
Lead	25.0	13.8	"	4.94	20.5	90.9	75-125	13.7	20	
Nickel	7.97	25.7	"	4.94	3.09	98.6	75-125	3.92	20	U
Selenium	5.41	0.257	"	4.94	0.199	106	75-125	0.0674	20	
Silver	4.95	0.791	"	4.94	0.0230	99.6	75-125	0.189	20	
Zinc	100	366	"	49.4	48.2	106	75-125	1.20	20	U

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 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1512 - Saturated Paste pH/EC**

**Blank (B5H1512-BLK1)**

Prepared: 08/15/2025 Analyzed: 08/16/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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**Duplicate (B5H1512-DUP1)**

**Source: E5H0324-01**

Prepared: 08/15/2025 Analyzed: 08/16/2025

pH	7.89		pH Units		7.92		0.380		25	
Specific Conductance (EC)	0.352	0.00500	mmhos/cm		0.350		0.542		25	

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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1519 - EPA 5030 (soil)**

Prepared: 08/15/2025 Analyzed: 08/15/2025

**Blank (B5H1519-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	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.3		70-130			

**LCS (B5H1519-BS1)**

Prepared: 08/15/2025 Analyzed: 08/15/2025

1,2,4-Trimethylbenzene	0.102	0.002	mg/kg wet	0.100	102		70-130			
1,3,5-Trimethylbenzene	0.101	0.002	"	0.100	101		70-130			
Benzene	0.102	0.002	"	0.100	102		70-130			
Ethylbenzene	0.104	0.002	"	0.100	104		70-130			
Toluene	0.103	0.002	"	0.100	103		70-130			
o-Xylene	0.098	0.002	"	0.100	98.2		70-130			
m,p-Xylene	0.200	0.004	"	0.200	99.9		70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

**Matrix Spike (B5H1519-MS1)**

Source: E5H0327-01

Prepared: 08/15/2025 Analyzed: 08/15/2025

1,2,4-Trimethylbenzene	0.108	0.002	mg/kg dry	0.122	ND	88.8	70-130			
1,3,5-Trimethylbenzene	0.108	0.002	"	0.122	ND	88.6	70-130			
Benzene	0.101	0.002	"	0.122	ND	82.8	70-130			

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Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**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 B5H1519 - EPA 5030 (soil)

**Matrix Spike (B5H1519-MS1)**

Source: E5H0327-01

Prepared: 08/15/2025 Analyzed: 08/15/2025

Ethylbenzene	0.104	0.002	mg/kg dry	0.122	ND	85.4	70-130			
Toluene	0.102	0.002	"	0.122	ND	83.9	70-130			
o-Xylene	0.105	0.002	"	0.122	ND	85.8	70-130			
m,p-Xylene	0.219	0.005	"	0.244	ND	89.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.153		89.5	70-130			
Surrogate: Toluene-d8	0.15		"	0.153		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.153		107	70-130			

**Matrix Spike Dup (B5H1519-MSD1)**

Source: E5H0327-01

Prepared: 08/15/2025 Analyzed: 08/15/2025

1,2,4-Trimethylbenzene	0.124	0.002	mg/kg dry	0.122	ND	101	70-130	13.0	20	
1,3,5-Trimethylbenzene	0.121	0.002	"	0.122	ND	99.1	70-130	11.1	20	
Benzene	0.124	0.002	"	0.122	ND	102	70-130	20.7	20	QR-02
Ethylbenzene	0.125	0.002	"	0.122	ND	102	70-130	17.8	20	
Toluene	0.124	0.002	"	0.122	ND	101	70-130	18.9	20	
o-Xylene	0.119	0.002	"	0.122	ND	97.6	70-130	12.9	20	
m,p-Xylene	0.244	0.005	"	0.244	ND	99.8	70-130	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.153		98.5	70-130			
Surrogate: Toluene-d8	0.15		"	0.153		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.153		104	70-130			

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 Grand Junction CO 81501

Zach Solow  
 Project Number: [none]  
 Project: Chevron - Kielian 2-2 WH

**Total Metals by EPA 7199 - Quality Control  
 Enthalpy Orange**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 379967 - EPA 3060A</b>										
<b>BLANK (QC1286855)</b>										
					Prepared: 08/21/2025 Analyzed: 08/22/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
<b>LCS (QC1286856)</b>										
					Prepared: 08/21/2025 Analyzed: 08/22/2025					
Hexavalent Chromium	39.01	0.6000	mg/Kg	40.00		98	80-120			
<b>Duplicate (QC1286857)</b>										
					Source: 540264-001 Prepared: 08/21/2025 Analyzed: 08/22/2025					
Hexavalent Chromium	ND	0.3000	mg/Kg		0		-		30	ND
<b>Matrix Spike (QC1286858)</b>										
					Source: 540264-001 Prepared: 08/21/2025 Analyzed: 08/22/2025					
Hexavalent Chromium	36.08	0.5859	mg/Kg	39.06	0	92	70-130			

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Zach Solow  
Project Number: [none]  
Project: Chevron - Kielian 2-2 WH

### Notes and Definitions

- U Sample is Non-Detect.
  - QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
  - 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 Not Detected
  - 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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