



Montrose Environmental

November 06, 2025

Scott Williamson

471 Denver Ave

Loveland CO 80537

Project Name - Chevron - Stroh N35-15

Project Number - 40023

Attached are your analytical results for Chevron - Stroh N35-15 received by Origins Laboratory October 27, 2025. This project is associated with Origins project number E5J0622-01.

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

Scott Williamson
Project Number: 40023
Project: Chevron - Stroh N35-15

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLR01@3'	E5J0622-01	Soil	October 27, 2025 10:20	10/27/2025 17:09
BKG01@3'	E5J0622-02	Soil	October 27, 2025 14:44	10/27/2025 17:09
BKG02@3'	E5J0622-03	Soil	October 27, 2025 15:10	10/27/2025 17:09
BKG03@3'	E5J0622-04	Soil	October 27, 2025 15:15	10/27/2025 17:09

Origins Laboratory

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Kayla Kenyon, Project Manager

Sample Receipt Checklist

Origins Work Order: EG50622

Client: Montrose

Client Project ID: Stroh N35-15

Checklist Completed by: gmc/gmc

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

Date/time completed: 10/28/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.4 °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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.

Reviewed by (Project Manager) [Signature]

10/29/25
Date/Time Reviewed



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 Project Number: 40023
 Project: Chevron - Stroh N35-15

FLR01@3'

10/27/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0622-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.436		0.118	mg/L dry	1	B5J2803	10/28/2025	10/29/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	0.231	0.191	0.238	mg/kg dry	1	B5J2912	10/29/2025	11/03/2025	J
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	99.0		29.6	mg/kg dry	1	B5J2903	10/29/2025	10/29/2025	
Residual Range Organics (C28-C36)	ND		119	"	"	"	"	"	U
Surrogate: o-Terphenyl	97.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J2808	10/28/2025	10/28/2025	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
Gasoline Range Hydrocarbons	ND		0.234	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	

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FLR01@3'

10/27/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0622-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: Toluene-d8	97.6 %			70-130		B5J2808	10/28/2025	10/28/2025	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	5.82		0.499	meq/L	10	[CALC]	10/28/2025	10/29/2025	
Magnesium	1.83		0.823	"	"	"	"	"	
Sodium	0.937		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	0.006		0.002	mg/kg dry	1	B5J2814	10/28/2025	10/28/2025	
2-Methylnaphthalene	0.008		0.002	"	"	"	"	"	
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
Chrysene	ND		0.024	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U
Fluoranthene	ND		0.024	"	"	"	"	"	U

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FLR01@3'

10/27/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0622-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.024	mg/kg dry	1	B5J2814	10/28/2025	10/28/2025	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.2 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	84.8			mass percent	1	B5J2815	10/28/2025	10/28/2025	
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pH in Soil by 9045D

pH	7.76			pH Units	1	B5J2805	10/28/2025	10/29/2025	
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SAR by 20B Saturated Paste

SAR	0.479		0.0100	SAR	1	B5J2804	10/28/2025	10/29/2025	
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Specific Conductance Mod. 9050A

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FLR01@3'

10/27/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0622-01 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.962		0.00500	mmhos/cm	1	B5J2805	10/28/2025	10/29/2025	
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Table 915 metals by EPA 6020B

Arsenic	11.2		0.236	mg/kg dry	10	B5J2806	10/28/2025	10/29/2025	
Barium	223		66.7	"	"	"	"	"	
Cadmium	0.324		0.309	"	"	"	"	"	
Copper	ND		37.4	"	"	"	"	"	U
Lead	19.5		11.4	"	"	"	"	"	
Nickel	ND		21.1	"	"	"	"	"	U
Selenium	0.384		0.200	"	"	"	"	"	
Silver	ND		0.651	"	"	"	"	"	U
Zinc	ND		301	"	"	"	"	"	U

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BKG01@3'
10/27/2025 2:44:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0622-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.182		0.121	mg/L dry	1	B5J2803	10/28/2025	10/29/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.192	0.239	mg/kg dry	1	B5J2912	10/29/2025	11/03/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	1.83		0.499	meq/L	10	[CALC]	10/28/2025	10/29/2025	
Magnesium	1.69		0.823	"	"	"	"	"	
Sodium	0.662		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	82.1			mass percent	1	B5J2815	10/28/2025	10/28/2025	
pH in Soil by 9045D									
pH	8.10			pH Units	1	B5J2805	10/28/2025	10/29/2025	
SAR by 20B Saturated Paste									
SAR	0.498		0.0100	SAR	1	B5J2804	10/28/2025	10/29/2025	

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BKG01@3'
10/27/2025 2:44:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0622-02 (Soil)									
Origins Laboratory									
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.430		0.00500	mmhos/cm	1	B5J2805	10/28/2025	10/29/2025	
Table 915 metals by EPA 6020B									
Arsenic	6.89		0.242	mg/kg dry	10	B5J2806	10/28/2025	10/29/2025	
Barium	194		68.2	"	"	"	"	"	
Cadmium	ND		0.316	"	"	"	"	"	U
Copper	ND		38.3	"	"	"	"	"	U
Lead	12.4		11.6	"	"	"	"	"	
Nickel	24.2		21.6	"	"	"	"	"	
Selenium	ND		0.205	"	"	"	"	"	U
Silver	ND		0.666	"	"	"	"	"	U
Zinc	ND		308	"	"	"	"	"	U

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BKG02@3'
10/27/2025 3:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0622-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.205		0.119	mg/L dry	1	B5J2803	10/28/2025	10/29/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.188	0.235	mg/kg dry	1	B5J2912	10/29/2025	11/03/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	1.92		0.499	meq/L	10	[CALC]	10/28/2025	10/29/2025	
Magnesium	1.59		0.823	"	"	"	"	"	
Sodium	0.773		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	83.8			mass percent	1	B5J2815	10/28/2025	10/28/2025	
pH in Soil by 9045D									
pH	8.10			pH Units	1	B5J2805	10/28/2025	10/29/2025	
SAR by 20B Saturated Paste									
SAR	0.584		0.0100	SAR	1	B5J2804	10/28/2025	10/29/2025	

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BKG02@3'

10/27/2025 3:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0622-03 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.438		0.00500	mmhos/cm	1	B5J2805	10/28/2025	10/29/2025	
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Table 915 metals by EPA 6020B

Arsenic	7.47		0.233	mg/kg dry	10	B5J2806	10/28/2025	10/29/2025	
Barium	254		65.8	"	"	"	"	"	
Cadmium	ND		0.305	"	"	"	"	"	U
Copper	ND		36.9	"	"	"	"	"	U
Lead	12.7		11.2	"	"	"	"	"	
Nickel	ND		20.8	"	"	"	"	"	U
Selenium	0.208		0.197	"	"	"	"	"	
Silver	ND		0.641	"	"	"	"	"	U
Zinc	ND		297	"	"	"	"	"	U

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BKG03@3'
10/27/2025 3:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0622-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.149		0.118	mg/L dry	1	B5J2803	10/28/2025	10/29/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.189	0.237	mg/kg dry	1	B5J2912	10/29/2025	11/03/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	2.19		0.499	meq/L	10	[CALC]	10/28/2025	10/29/2025	
Magnesium	1.19		0.823	"	"	"	"	"	
Sodium	0.788		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	85.0			mass percent	1	B5J2815	10/28/2025	10/28/2025	
pH in Soil by 9045D									
pH	8.04			pH Units	1	B5J2805	10/28/2025	10/29/2025	
SAR by 20B Saturated Paste									
SAR	0.605		0.0100	SAR	1	B5J2804	10/28/2025	10/29/2025	

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BKG03@3'
10/27/2025 3:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0622-04 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.422		0.00500	mmhos/cm	1	B5J2805	10/28/2025	10/29/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.51		0.241	mg/kg dry	10	B5J2806	10/28/2025	10/29/2025	
Barium	144		68.0	"	"	"	"	"	
Cadmium	ND		0.315	"	"	"	"	"	U
Copper	ND		38.2	"	"	"	"	"	U
Lead	ND		11.6	"	"	"	"	"	U
Nickel	ND		21.6	"	"	"	"	"	U
Selenium	ND		0.204	"	"	"	"	"	U
Silver	ND		0.664	"	"	"	"	"	U
Zinc	ND		307	"	"	"	"	"	U

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*** DEFAULT GENERAL METHOD *** - Quality Control
 Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5J2815 - % Solids										
Duplicate (B5J2815-DUP1)			Source: E5J0584-01			Prepared: 10/28/2025 Analyzed: 10/28/2025				
Total Solids, Percent	96.1		mass percent		96.2			0.132	20	
Duplicate (B5J2815-DUP2)			Source: E5J0584-02			Prepared: 10/28/2025 Analyzed: 10/28/2025				
Total Solids, Percent	95.7		mass percent		95.9			0.222	20	
Batch B5J2912 - EPA 3060A										
Blank (B5J2912-BLK1)			Prepared: 10/29/2025 Analyzed: 11/03/2025							
Hexavalent Chromium	ND	0.200	mg/kg wet							U
LCS (B5J2912-BS1)			Prepared: 10/29/2025 Analyzed: 11/03/2025							
Hexavalent Chromium	2.17	0.200	mg/kg wet	2.00		109	80-120			
Matrix Spike (B5J2912-MS1)			Source: E5J0621-06			Prepared: 10/29/2025 Analyzed: 11/03/2025				
Hexavalent Chromium	2.45	0.232	mg/kg dry	2.32	ND	106	75-125			
Matrix Spike (B5J2912-MS2)			Source: E5J0621-06			Prepared: 10/29/2025 Analyzed: 11/03/2025				
Hexavalent Chromium	199	23.0	mg/kg dry	206	ND	96.7	75-125			
Matrix Spike Dup (B5J2912-MSD1)			Source: E5J0621-06			Prepared: 10/29/2025 Analyzed: 11/03/2025				
Hexavalent Chromium	2.32	0.220	mg/kg dry	2.20	ND	105	75-125	5.50	20	
Post Spike (B5J2912-PS1)			Source: E5J0621-06			Prepared: 10/29/2025 Analyzed: 11/03/2025				
Hexavalent Chromium	54.6		ug/L	50.0	1.02	107	80-120			

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J2803 - DTPA Sorbitol Preparation

Blank (B5J2803-BLK1)

Prepared: 10/28/2025 Analyzed: 10/29/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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Duplicate (B5J2803-DUP1)

Source: E5J0615-06

Prepared: 10/28/2025 Analyzed: 10/29/2025

(DTPA Sorbitol) Boron	0.489	0.116	mg/L dry		0.441			10.2	50	
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Batch B5J2804 - Saturated Paste Metals

Blank (B5J2804-BLK1)

Prepared: 10/28/2025 Analyzed: 10/29/2025

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 (B5J2804-DUP1)

Source: E5J0615-06

Prepared: 10/28/2025 Analyzed: 10/29/2025

Calcium PPM	19.4	10.0	mg/L		19.0			2.55	50	
SAR	ND	0.0100	SAR		1.71				200	U
Magnesium PPM	7.38	10.0	mg/L		7.19			2.61	50	U
Sodium PPM	35.0	10.0	"		34.4			1.59	50	

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Scott Williamson
 Project Number: 40023
 Project: Chevron - Stroh N35-15

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 B5J2814 - EPA 3580

Blank (B5J2814-BLK1)

Prepared: 10/28/2025 Analyzed: 10/28/2025

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		102	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

LCS (B5J2814-BS1)

Prepared: 10/28/2025 Analyzed: 10/28/2025

1-Methylnaphthalene	0.193	0.002	mg/kg wet	0.201		96.3	70-130			
2-Methylnaphthalene	0.183	0.002	"	0.201		91.2	70-130			
Acenaphthene	0.182	0.020	"	0.201		90.6	70-130			
Anthracene	0.173	0.020	"	0.201		86.2	70-130			
Benzo (a) anthracene	0.174	0.005	"	0.201		86.9	70-130			
Benzo (a) pyrene	0.176	0.020	"	0.201		87.5	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 B5J2814 - EPA 3580

LCS (B5J2814-BS1)

Prepared: 10/28/2025 Analyzed: 10/28/2025

Benzo (b) fluoranthene	0.187	0.020	mg/kg wet	0.201		93.2	70-130			
Benzo (k) fluoranthene	0.186	0.020	"	0.201		92.8	70-130			
Chrysene	0.180	0.020	"	0.201		89.8	70-130			
Dibenz (a,h) anthracene	0.179	0.020	"	0.201		89.3	70-130			
Fluoranthene	0.186	0.020	"	0.201		92.5	70-130			
Fluorene	0.181	0.020	"	0.201		90.0	70-130			
Indeno (1,2,3-cd) pyrene	0.169	0.020	"	0.201		84.1	70-130			
Naphthalene	0.184	0.002	"	0.201		91.7	70-130			
Pyrene	0.184	0.020	"	0.201		91.4	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.3	60-130			
Surrogate: Pyrene-d10	200		"	200		98.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

Matrix Spike (B5J2814-MS1)

Source: E5J0607-01

Prepared: 10/28/2025 Analyzed: 10/28/2025

1-Methylnaphthalene	0.740	0.003	mg/kg dry	0.261	0.717	8.66	70-130			QM-07
2-Methylnaphthalene	0.817	0.003	"	0.261	0.808	3.39	70-130			QM-07
Acenaphthene	0.280	0.026	"	0.261	0.076	78.0	70-130			
Anthracene	0.271	0.026	"	0.261	0.016	97.6	70-130			
Benzo (a) anthracene	0.253	0.007	"	0.261	0.002	95.8	70-130			
Benzo (a) pyrene	0.251	0.026	"	0.261	ND	96.1	70-130			
Benzo (b) fluoranthene	0.283	0.026	"	0.261	0.008	105	70-130			
Benzo (k) fluoranthene	0.256	0.026	"	0.261	0.001	97.5	70-130			
Chrysene	0.257	0.026	"	0.261	0.023	89.5	70-130			
Dibenz (a,h) anthracene	0.253	0.026	"	0.261	0.001	96.5	70-130			
Fluoranthene	0.249	0.026	"	0.261	0.003	94.5	70-130			
Fluorene	0.295	0.026	"	0.261	0.096	76.4	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 B5J2814 - EPA 3580

Matrix Spike (B5J2814-MS1)		Source: E5J0607-01			Prepared: 10/28/2025 Analyzed: 10/28/2025					
Indeno (1,2,3-cd) pyrene	0.223	0.026	mg/kg dry	0.261	0.002	84.6	70-130			
Naphthalene	0.442	0.003	"	0.261	0.257	70.9	70-130			
Pyrene	0.253	0.026	"	0.261	0.017	90.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.4	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B5J2814-MSD1)		Source: E5J0607-01			Prepared: 10/28/2025 Analyzed: 10/28/2025					
1-Methylnaphthalene	0.857	0.003	mg/kg dry	0.259	0.717	54.0	70-130	14.7	20	QM-07
2-Methylnaphthalene	0.971	0.003	"	0.259	0.808	62.9	70-130	17.2	20	QM-07
Acenaphthene	0.298	0.026	"	0.259	0.076	85.7	70-130	6.34	20	
Anthracene	0.253	0.026	"	0.259	0.016	91.4	70-130	7.03	20	
Benzo (a) anthracene	0.236	0.006	"	0.259	0.002	90.2	70-130	6.82	20	
Benzo (a) pyrene	0.251	0.026	"	0.259	ND	97.0	70-130	0.0262	20	
Benzo (b) fluoranthene	0.274	0.026	"	0.259	0.008	103	70-130	3.40	20	
Benzo (k) fluoranthene	0.262	0.026	"	0.259	0.001	101	70-130	2.36	20	
Chrysene	0.256	0.026	"	0.259	0.023	89.7	70-130	0.571	20	
Dibenz (a,h) anthracene	0.251	0.026	"	0.259	0.001	96.7	70-130	0.663	20	
Fluoranthene	0.243	0.026	"	0.259	0.003	92.9	70-130	2.59	20	
Fluorene	0.319	0.026	"	0.259	0.096	86.4	70-130	7.83	20	
Indeno (1,2,3-cd) pyrene	0.217	0.026	"	0.259	0.002	83.1	70-130	2.74	20	
Naphthalene	0.477	0.003	"	0.259	0.257	85.1	70-130	7.63	20	
Pyrene	0.250	0.026	"	0.259	0.017	90.0	70-130	1.23	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		97.3	60-130			
Surrogate: Pyrene-d10	190		"	200		96.1	60-130			

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Project: Chevron - Stroh N35-15

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 B5J2814 - EPA 3580

Matrix Spike Dup (B5J2814-MSD1)

Source: E5J0607-01

Prepared: 10/28/2025 Analyzed: 10/28/2025

Surrogate: Benzo (a) pyrene-d12	200		ug/kg	200	102		60-130			
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J2903 - EPA 3550B

Blank (B5J2903-BLK1)

Prepared: 10/29/2025 Analyzed: 10/29/2025

Diesel (C10-C28)	ND	24.8	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	99.3	"							U
Surrogate: o-Terphenyl	28		"	24.7		112	50-150			

LCS (B5J2903-BS1)

Prepared: 10/29/2025 Analyzed: 10/29/2025

Diesel (C10-C28)	928	49.9	mg/kg wet	998		93.0	70-130			
Residual Range Organics (C28-C36)	899	200	"	998		90.1	70-130			
Surrogate: o-Terphenyl	59		"	49.7		120	50-150			

Matrix Spike (B5J2903-MS1)

Source: E5J0618-01

Prepared: 10/29/2025 Analyzed: 10/29/2025

Diesel (C10-C28)	937	50.2	mg/kg wet	1000	ND	93.3	70-130			
Residual Range Organics (C28-C36)	921	201	"	1000	ND	91.7	70-130			
Surrogate: o-Terphenyl	60		"	49.9		120	50-150			

Matrix Spike Dup (B5J2903-MSD1)

Source: E5J0618-01

Prepared: 10/29/2025 Analyzed: 10/29/2025

Diesel (C10-C28)	1050	50.1	mg/kg wet	1000	ND	105	70-130	11.3	35	
Residual Range Organics (C28-C36)	1040	200	"	1000	ND	104	70-130	12.5	35	
Surrogate: o-Terphenyl	64		"	49.8		128	50-150			

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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
Batch B5J2806 - EPA 3050B										
Blank (B5J2806-BLK1)										
					Prepared: 10/28/2025 Analyzed: 10/29/2025					
Arsenic	ND	0.218	mg/kg wet							U
LCS (B5J2806-BS1)										
					Prepared: 10/28/2025 Analyzed: 10/29/2025					
Arsenic	5.40	0.218	mg/kg wet	5.00		108	80-120			
Matrix Spike (B5J2806-MS1)										
					Source: E5J0601-01 Prepared: 10/28/2025 Analyzed: 10/29/2025					
Arsenic	10.4	0.226	mg/kg dry	5.19	4.51	114	75-125			
Matrix Spike Dup (B5J2806-MSD1)										
					Source: E5J0601-01 Prepared: 10/28/2025 Analyzed: 10/29/2025					
Arsenic	10.5	0.219	mg/kg dry	5.03	4.51	120	75-125	1.26	20	

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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 B5J2805 - Saturated Paste pH/EC

Blank (B5J2805-BLK1)

Prepared: 10/28/2025 Analyzed: 10/29/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5J2805-DUP1)

Source: E5J0615-06

Prepared: 10/28/2025 Analyzed: 10/29/2025

Specific Conductance (EC)	0.318	0.00500	mmhos/cm		0.321		0.689		25	
pH	8.13		pH Units		8.13		0.00		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 B5J2808 - EPA 5030 (soil)

Blank (B5J2808-BLK1)

Prepared: 10/28/2025 Analyzed: 10/28/2025

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		96.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

LCS (B5J2808-BS1)

Prepared: 10/28/2025 Analyzed: 10/28/2025

1,2,4-Trimethylbenzene	0.117	0.002	mg/kg wet	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.119	0.002	"	0.100		119	70-130			
Benzene	0.106	0.002	"	0.100		106	70-130			
Ethylbenzene	0.114	0.002	"	0.100		114	70-130			
Toluene	0.112	0.002	"	0.100		112	70-130			
o-Xylene	0.117	0.002	"	0.100		117	70-130			
m,p-Xylene	0.236	0.004	"	0.200		118	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Matrix Spike (B5J2808-MS1)

Source: E5J0620-01

Prepared: 10/28/2025 Analyzed: 10/28/2025

1,2,4-Trimethylbenzene	0.129	0.002	mg/kg dry	0.119	0.009	101	70-130			
1,3,5-Trimethylbenzene	0.126	0.002	"	0.119	0.003	104	70-130			
Benzene	0.116	0.002	"	0.119	0.002	96.1	70-130			

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 Project: Chevron - Stroh N35-15

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 B5J2808 - EPA 5030 (soil)

Matrix Spike (B5J2808-MS1)

Source: E5J0620-01

Prepared: 10/28/2025 Analyzed: 10/28/2025

Ethylbenzene	0.123	0.002	mg/kg dry	0.119	0.002	101	70-130			
Toluene	0.135	0.002	"	0.119	0.022	95.2	70-130			
o-Xylene	0.132	0.002	"	0.119	0.012	101	70-130			
m,p-Xylene	0.266	0.005	"	0.238	0.022	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.149		92.5	70-130			
Surrogate: Toluene-d8	0.15		"	0.149		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.149		105	70-130			

Matrix Spike Dup (B5J2808-MSD1)

Source: E5J0620-01

Prepared: 10/28/2025 Analyzed: 10/28/2025

1,2,4-Trimethylbenzene	0.114	0.002	mg/kg dry	0.119	0.009	88.6	70-130	12.1	20	
1,3,5-Trimethylbenzene	0.108	0.002	"	0.119	0.003	88.5	70-130	15.6	20	
Benzene	0.105	0.002	"	0.119	0.002	86.5	70-130	10.1	20	
Ethylbenzene	0.109	0.002	"	0.119	0.002	89.6	70-130	11.8	20	
Toluene	0.129	0.002	"	0.119	0.022	89.7	70-130	4.79	20	
o-Xylene	0.120	0.002	"	0.119	0.012	91.1	70-130	9.36	20	
m,p-Xylene	0.241	0.005	"	0.238	0.022	92.0	70-130	9.56	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.149		95.8	70-130			
Surrogate: Toluene-d8	0.15		"	0.149		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.149		107	70-130			

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Scott Williamson
Project Number: 40023
Project: Chevron - Stroh N35-15

Notes and Definitions

- U Sample is Non-Detect.
- 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 Sample result was found between MDL and RL
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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