



Fremont Environmental

April 16, 2025

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

**Project Name - Chevron - Howard USX A09-13
Excavation**

Project Number - [none]

Attached are your analytical results for Chevron - Howard USX A09-13 Excavation received by Origins Laboratory March 19, 2025. This project is associated with Origins project number E5C0698-01.

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



Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Wall-2Ft	E5C0698-01	Soil	March 19, 2025 10:20	03/19/2025 13:50
E Wall-2Ft	E5C0698-02	Soil	March 19, 2025 10:30	03/19/2025 13:50
S Wall-2Ft	E5C0698-03	Soil	March 19, 2025 10:40	03/19/2025 13:50
W Wall-2Ft	E5C0698-04	Soil	March 19, 2025 10:50	03/19/2025 13:50
Floor-3 Ft	E5C0698-05	Soil	March 19, 2025 11:00	03/19/2025 13:50

Origins Laboratory

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ORIGINS LABORATORY

Fremont Environmental
8305 6th St, PO Box 1289
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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

ORIGINS

LABORATORY INC

ES00698

ORIGINS WORK ORDER #

Page 1 of 1

Client: Fremont Environmental
Address: 8305 6th St, Wellington CO
Project Manager: Paul Henehan
Project Name: Howard USX A09-13 Excavation
Project Number: 004-056

Telephone Number: 303-261-6216
Email Address: Fremont Dist Int, Clayton Dist Int
Collected By: Stanley Gilbert
Invoice Billing Info: UWAWE-43597-EXP
S=soil | SO=soil | O=oil | A=air | G=gas | UNP=unpres | HCL=hydrochloric | HNO3=nitric | H2SO4=sulfuric | NaOH=sodium hydroxide
L=liquid
W=Water
SW=Surface Water
WW=Waste Water

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	N Wall-2ft	3/19/25	10:20	2	5	None	X		
2	E Wall-2ft								
3	S Wall-2ft								
4	W Wall-2ft								
5	FLNG-3ft								
6									
7									
8									
9									
10									

Relinquished By: [Signature]
Date: 3/19/25
Time: 13:50
Received By: NKM
Date: 03/19/25
Time: 13:50
Temp Received: 4.0°C
Received On Ice? Yes No
Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Origins Laboratory
Byron

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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

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

Sample Receipt Checklist

Origins Work Order: E5C0698 Client: Fremont
 Checklist Completed by: KDK / NKM Client Project ID: Howard USX A0913 Excavation
 Date/time completed: 3 / 19 / 25 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other:
 Cooler Number/Temperature: 40 / 70 °C / °C / °C / °C (Describe)
 Thermometer ID: T007 Airbill #: N/A

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) NKM Date/Time Reviewed 03 / 19 / 25

Origins Laboratory
Byron

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Fremont Environmental
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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

**N Wall-2Ft
3/19/2025 10:20:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-01 (Soil) Enthalpy Orange									
Total Metals by EPA 7199									
Hexavalent Chromium	ND	0.14	0.29	mg/Kg	1	368165	04/07/2025	04/08/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.510		0.0997	mg/L	1	B5C1962	03/19/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C1954	03/19/2025	03/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	52.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1956	03/19/2025	03/19/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

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N Wall-2Ft
3/19/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5C1956	03/19/2025	03/19/2025	U
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	2.36		0.499	meq/L	10	[CALC]	03/19/2025	03/24/2025	
Magnesium	2.53		0.823	"	"	"	"	"	
Sodium	3.54		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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

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N Wall-2Ft
3/19/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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	97.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.4 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.51			pH Units	1	B5C2014	03/20/2025	03/21/2025	
SAR by 20B Saturated Paste									
SAR	2.26		0.0100	SAR	1	B5C1959	03/19/2025	03/24/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.819		0.00500	mmhos/cm	1	B5C2014	03/20/2025	03/21/2025	

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Paul Henehan
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N Wall-2Ft
3/19/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	7.30		0.281	mg/kg	10	B5C1963	03/19/2025	03/20/2025	
Barium	52.4		9.68	"	"	"	"	"	"
Cadmium	0.211		0.0968	"	"	"	"	"	"
Copper	18.0		9.68	"	"	"	"	"	"
Lead	16.3		0.968	"	"	"	"	"	"
Nickel	13.1		0.968	"	"	"	"	"	"
Selenium	0.304		0.252	"	"	"	"	"	"
Silver	ND		0.0968	"	"	"	"	"	"
Zinc	67.3		35.8	"	"	"	"	"	"

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E Wall-2Ft
3/19/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-02 (Soil)									
Enthalpy Orange									
Total Metals by EPA 7199									
Hexavalent Chromium	ND	0.15	0.30	mg/Kg	1	368165	04/07/2025	04/08/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.715		0.101	mg/L	1	B5C1962	03/19/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C1954	03/19/2025	03/20/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	88.3 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1956	03/19/2025	03/20/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

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E Wall-2Ft
3/19/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0698-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5C1956	03/19/2025	03/20/2025	U
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.61		0.499	meq/L	10	[CALC]	03/19/2025	03/24/2025	
Magnesium	3.07		0.823	"	"	"	"	"	
Sodium	3.44		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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

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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

E Wall-2Ft
3/19/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-02 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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	96.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.5 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.52			pH Units	1	B5C2014	03/20/2025	03/21/2025	
SAR by 20B Saturated Paste									
SAR	2.04		0.0100	SAR	1	B5C1959	03/19/2025	03/24/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.887		0.00500	mmhos/cm	1	B5C2014	03/20/2025	03/21/2025	

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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

E Wall-2Ft
3/19/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0698-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	13.7		0.279	mg/kg	10	B5C1963	03/19/2025	03/20/2025	
Barium	1500		9.63	"	"	"	"	"	"
Cadmium	0.156		0.0963	"	"	"	"	"	"
Copper	22.9		9.63	"	"	"	"	"	"
Lead	24.6		0.963	"	"	"	"	"	"
Nickel	15.6		0.963	"	"	"	"	"	"
Selenium	0.460		0.250	"	"	"	"	"	"
Silver	ND		0.0963	"	"	"	"	"	"
Zinc	109		35.6	"	"	"	"	"	"

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Paul Henehan
 Project Number: [none]
 Project: Chevron - Howard USX A09-13
 Excavation

S Wall-2Ft

3/19/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-03 (Soil)									
Enthalpy Orange									
Total Metals by EPA 7199									
Hexavalent Chromium	ND	0.15	0.30	mg/Kg	1	368165	04/07/2025	04/08/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.198		0.0991	mg/L	1	B5C1962	03/19/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C1954	03/19/2025	03/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	57.2 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1956	03/19/2025	03/20/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

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Fremont Environmental
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Paul Henehan
 Project Number: [none]
 Project: Chevron - Howard USX A09-13
 Excavation

S Wall-2Ft
3/19/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0698-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5C1956	03/19/2025	03/20/2025	U
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.8 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.20		0.499	meq/L	10	[CALC]	03/19/2025	03/24/2025	
Magnesium	2.07		0.823	"	"	"	"	"	
Sodium	3.94		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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

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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

S Wall-2Ft
3/19/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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	97.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.8 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.48			pH Units	1	B5C2014	03/20/2025	03/21/2025	
SAR by 20B Saturated Paste									
SAR	2.69		0.0100	SAR	1	B5C1959	03/19/2025	03/24/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.801		0.00500	mmhos/cm	1	B5C2014	03/20/2025	03/21/2025	

Origins Laboratory



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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

S Wall-2Ft
3/19/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0698-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	10.6		0.246	mg/kg	10	B5C1963	03/19/2025	03/20/2025	
Barium	74.5		8.48	"	"	"	"	"	
Cadmium	ND		0.0848	"	"	"	"	"	
Copper	ND		8.48	"	"	"	"	"	
Lead	8.21		0.848	"	"	"	"	"	
Nickel	4.61		0.848	"	"	"	"	"	
Selenium	ND		0.221	"	"	"	"	"	
Silver	ND		0.0848	"	"	"	"	"	
Zinc	ND		31.4	"	"	"	"	"	

Origins Laboratory



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Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

W Wall-2Ft
3/19/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-04 (Soil)									
Enthalpy Orange									
Total Metals by EPA 7199									
Hexavalent Chromium	ND	0.14	0.29	mg/Kg	1	368165	04/07/2025	04/08/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.192		0.101	mg/L	1	B5C1962	03/19/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C1954	03/19/2025	03/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	61.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1956	03/19/2025	03/20/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

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Fremont Environmental
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Paul Henehan
 Project Number: [none]
 Project: Chevron - Howard USX A09-13
 Excavation

W Wall-2Ft
3/19/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0698-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5C1956	03/19/2025	03/20/2025	U
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.84		0.499	meq/L	10	[CALC]	03/19/2025	03/24/2025	
Magnesium	1.98		0.823	"	"	"	"	"	
Sodium	2.22		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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

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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

W Wall-2Ft
3/19/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-04 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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	97.1 %			60-130		"	"	"	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.6 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.42			pH Units	1	B5C2014	03/20/2025	03/21/2025	
SAR by 20B Saturated Paste									
SAR	1.61		0.0100	SAR	1	B5C1959	03/19/2025	03/24/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.619		0.00500	mmhos/cm	1	B5C2014	03/20/2025	03/21/2025	

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Fremont Environmental
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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

W Wall-2Ft
3/19/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0698-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	16.4		0.253	mg/kg	10	B5C1963	03/19/2025	03/20/2025	
Barium	47.7		8.74	"	"	"	"	"	
Cadmium	ND		0.0874	"	"	"	"	"	
Copper	ND		8.74	"	"	"	"	"	
Lead	7.20		0.874	"	"	"	"	"	
Nickel	5.75		0.874	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.0874	"	"	"	"	"	
Zinc	38.8		32.3	"	"	"	"	"	

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Excavation

Floor-3 Ft
3/19/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-05 (Soil)									
Enthalpy Orange									
Total Metals by EPA 7199									
Hexavalent Chromium	ND	0.11	0.30	mg/Kg	1	368072	04/06/2025	04/08/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.208		0.102	mg/L	1	B5C1962	03/19/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C1954	03/19/2025	03/19/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	58.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1956	03/19/2025	03/20/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

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Fremont Environmental
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Paul Henehan
 Project Number: [none]
 Project: Chevron - Howard USX A09-13
 Excavation

Floor-3 Ft
3/19/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0698-05 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5C1956	03/19/2025	03/20/2025	U
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.20		0.499	meq/L	10	[CALC]	03/19/2025	03/24/2025	
Magnesium	3.78		0.823	"	"	"	"	"	
Sodium	4.03		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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

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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

Floor-3 Ft
3/19/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-05 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5C1945	03/19/2025	03/20/2025	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	97.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.9 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.32			pH Units	1	B5C2014	03/20/2025	03/21/2025	
SAR by 20B Saturated Paste									
SAR	2.33		0.0100	SAR	1	B5C1959	03/19/2025	03/24/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.01		0.00500	mmhos/cm	1	B5C2014	03/20/2025	03/21/2025	

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8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

Floor-3 Ft
3/19/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0698-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	13.7		0.259	mg/kg	10	B5C1963	03/19/2025	03/20/2025	
Barium	25.2		8.92	"	"	"	"	"	
Cadmium	ND		0.0892	"	"	"	"	"	
Copper	ND		8.92	"	"	"	"	"	
Lead	8.43		0.892	"	"	"	"	"	
Nickel	3.50		0.892	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0892	"	"	"	"	"	
Zinc	ND		33.0	"	"	"	"	"	

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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

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 B5C1959 - Saturated Paste Metals

Blank (B5C1959-BLK1)

Prepared: 03/19/2025 Analyzed: 03/24/2025

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

Duplicate (B5C1959-DUP1)

Source: E5C0184-12

Prepared: 03/19/2025 Analyzed: 03/24/2025

SAR	ND	0.0100	SAR	5.16				200		
Calcium PPM	22.2	10.0	mg/L	21.9				1.27	50	
Magnesium PPM	8.99	10.0	"	9.05				0.665	50	
Sodium PPM	114	10.0	"	114				0.509	50	

Batch B5C1962 - DTPA Sorbitol Preparation

Blank (B5C1962-BLK1)

Prepared: 03/19/2025 Analyzed: 03/21/2025

Boron	ND	0.100	mg/L							
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Duplicate (B5C1962-DUP1)

Source: E5C0032-18

Prepared: 03/19/2025 Analyzed: 03/21/2025

Boron	5.61	0.0982	mg/L	5.24				6.77	50	
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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

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 B5C1945 - EPA 3580

Blank (B5C1945-BLK1)

Prepared: 03/19/2025 Analyzed: 03/19/2025

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

Surrogate: Fluorene-d10	190		ug/kg	200		97.4	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

LCS (B5C1945-BS1)

Prepared: 03/19/2025 Analyzed: 03/19/2025

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.4	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.7	70-130			
Acenaphthene	0.198	0.020	"	0.200		99.2	70-130			
Anthracene	0.193	0.020	"	0.200		96.4	70-130			

Origins Laboratory

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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

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 B5C1945 - EPA 3580

LCS (B5C1945-BS1)

Prepared: 03/19/2025 Analyzed: 03/19/2025

Benzo (a) anthracene	0.214	0.005	mg/kg	0.200		107	70-130			
Benzo (a) pyrene	0.199	0.020	"	0.200		99.4	70-130			
Benzo (b) fluoranthene	0.201	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Chrysene	0.200	0.020	"	0.200		99.8	70-130			
Dibenz (a,h) anthracene	0.209	0.020	"	0.200		104	70-130			
Fluoranthene	0.198	0.020	"	0.200		99.2	70-130			
Fluorene	0.203	0.020	"	0.200		101	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		102	70-130			
Naphthalene	0.198	0.002	"	0.200		99.1	70-130			
Phenanthrene	0.200	0.020	"	0.200		100	70-130			
Pyrene	0.197	0.020	"	0.200		98.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.7	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

Matrix Spike (B5C1945-MS1)

Source: E5C0662-01

Prepared: 03/19/2025 Analyzed: 03/19/2025

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	0.0005	105	70-130			
2-Methylnaphthalene	0.210	0.002	"	0.200	0.001	104	70-130			
Acenaphthene	0.208	0.020	"	0.200	ND	104	70-130			
Anthracene	0.206	0.020	"	0.200	ND	103	70-130			
Benzo (a) anthracene	0.218	0.005	"	0.200	ND	109	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200	0.0005	106	70-130			
Benzo (b) fluoranthene	0.226	0.020	"	0.200	ND	113	70-130			
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	ND	109	70-130			

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Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

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 B5C1945 - EPA 3580

Matrix Spike (B5C1945-MS1)

Source: E5C0662-01

Prepared: 03/19/2025 Analyzed: 03/19/2025

Benzo (k) fluoranthene	0.208	0.020	mg/kg	0.200	ND	104	70-130			
Chrysene	0.210	0.020	"	0.200	ND	105	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.0006	113	70-130			
Fluoranthene	0.210	0.020	"	0.200	ND	105	70-130			
Fluorene	0.210	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200	ND	108	70-130			
Naphthalene	0.210	0.002	"	0.200	ND	105	70-130			
Phenanthrene	0.209	0.020	"	0.200	ND	104	70-130			
Pyrene	0.209	0.020	"	0.200	ND	105	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.1	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

Matrix Spike Dup (B5C1945-MSD1)

Source: E5C0662-01

Prepared: 03/19/2025 Analyzed: 03/19/2025

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	0.0005	105	70-130	0.0289	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	0.001	105	70-130	0.196	20	
Acenaphthene	0.210	0.020	"	0.200	ND	105	70-130	0.910	20	
Anthracene	0.210	0.020	"	0.200	ND	105	70-130	2.16	20	
Benzo (a) anthracene	0.220	0.005	"	0.200	ND	110	70-130	1.17	20	
Benzo (a) pyrene	0.211	0.020	"	0.200	0.0005	105	70-130	0.474	20	
Benzo (b) fluoranthene	0.222	0.020	"	0.200	ND	111	70-130	1.81	20	
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	ND	108	70-130	1.79	20	
Benzo (k) fluoranthene	0.227	0.020	"	0.200	ND	113	70-130	8.76	20	
Chrysene	0.214	0.020	"	0.200	ND	107	70-130	2.02	20	
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	0.0006	111	70-130	1.72	20	
Fluoranthene	0.212	0.020	"	0.200	ND	106	70-130	0.714	20	

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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 B5C1945 - EPA 3580

Matrix Spike Dup (B5C1945-MSD1)

Source: E5C0662-01

Prepared: 03/19/2025 Analyzed: 03/19/2025

Fluorene	0.212	0.020	mg/kg	0.200	ND	106	70-130	0.711	20	
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200	ND	109	70-130	0.663	20	
Naphthalene	0.210	0.002	"	0.200	ND	105	70-130	0.0509	20	
Phenanthrene	0.210	0.020	"	0.200	ND	105	70-130	0.585	20	
Pyrene	0.210	0.020	"	0.200	ND	105	70-130	0.300	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.2	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	190		"	200		96.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	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
Batch B5C1954 - EPA 3550B										
Blank (B5C1954-BLK1)										
					Prepared: 03/19/2025 Analyzed: 03/19/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	24.9		62.7	50-150			
LCS (B5C1954-BS1)										
					Prepared: 03/19/2025 Analyzed: 03/19/2025					
Diesel (C10-C28)	910	50.0	mg/kg	1000		91.0	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.7	50-150			
Matrix Spike (B5C1954-MS1)										
		Source: E5C0696-01			Prepared: 03/19/2025 Analyzed: 03/19/2025					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1250	200	"	1000	ND	125	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			
Matrix Spike Dup (B5C1954-MSD1)										
		Source: E5C0696-01			Prepared: 03/19/2025 Analyzed: 03/19/2025					
Diesel (C10-C28)	914	50.0	mg/kg	1000	ND	91.4	70-130	16.9	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	16.4	35	
Surrogate: o-Terphenyl	45		"	49.8		90.8	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
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Batch B5C1963 - EPA 3050B

Blank (B5C1963-BLK1)

Prepared: 03/19/2025 Analyzed: 03/20/2025

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

LCS (B5C1963-BS1)

Prepared: 03/19/2025 Analyzed: 03/20/2025

Arsenic	5.59	0.290	mg/kg	5.00		112	80-120			
Barium	561	10.0	"	500		112	80-120			
Cadmium	5.78	0.100	"	5.00		116	80-120			
Copper	52.8	10.0	"	50.0		106	80-120			
Lead	5.56	1.00	"	5.00		111	80-120			
Nickel	5.21	1.00	"	5.00		104	80-120			
Selenium	5.45	0.260	"	5.00		109	80-120			
Silver	5.72	0.100	"	5.00		114	80-120			
Zinc	56.7	37.0	"	50.0		113	80-120			

Matrix Spike (B5C1963-MS1)

Source: E5C0698-01

Prepared: 03/19/2025 Analyzed: 03/20/2025

Arsenic	12.1	0.263	mg/kg	4.54	7.30	105	75-125			
Barium	561	9.09	"	454	52.4	112	75-125			
Cadmium	5.31	0.0909	"	4.54	0.211	112	75-125			
Copper	64.0	9.09	"	45.4	18.0	101	75-125			
Lead	19.8	0.909	"	4.54	16.3	76.8	75-125			

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Project: Chevron - Howard USX A09-13
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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 B5C1963 - EPA 3050B

Matrix Spike (B5C1963-MS1)

Source: E5C0698-01

Prepared: 03/19/2025 Analyzed: 03/20/2025

Nickel	19.3	0.909	mg/kg	4.54	13.1	136	75-125			QM-07
Selenium	5.01	0.236	"	4.54	0.304	104	75-125			
Silver	5.16	0.0909	"	4.54	0.0716	112	75-125			
Zinc	113	33.6	"	45.4	67.3	100	75-125			

Matrix Spike Dup (B5C1963-MSD1)

Source: E5C0698-01

Prepared: 03/19/2025 Analyzed: 03/20/2025

Arsenic	13.6	0.289	mg/kg	4.99	7.30	126	75-125	11.8	20	QM-07
Barium	630	9.98	"	499	52.4	116	75-125	11.5	20	
Cadmium	5.99	0.0998	"	4.99	0.211	116	75-125	12.2	20	
Copper	71.4	9.98	"	49.9	18.0	107	75-125	11.0	20	
Lead	20.0	0.998	"	4.99	16.3	75.3	75-125	1.36	20	
Nickel	17.7	0.998	"	4.99	13.1	90.9	75-125	9.00	20	
Selenium	5.52	0.259	"	4.99	0.304	105	75-125	9.72	20	
Silver	5.77	0.0998	"	4.99	0.0716	114	75-125	11.1	20	
Zinc	124	36.9	"	49.9	67.3	114	75-125	9.56	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 B5C2014 - Saturated Paste pH/EC

Blank (B5C2014-BLK1)

Prepared: 03/20/2025 Analyzed: 03/21/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5C2014-DUP1)

Source: E5C0184-12

Prepared: 03/20/2025 Analyzed: 03/21/2025

pH 8.29 pH Units 8.29 0.00 25

Specific Conductance (EC) 0.774 0.00500 mmhos/cm 0.754 2.60 25

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Project: Chevron - Howard USX A09-13
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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 B5C1956 - EPA 5030 (soil)

Blank (B5C1956-BLK1)

Prepared: 03/19/2025 Analyzed: 03/19/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

LCS (B5C1956-BS1)

Prepared: 03/19/2025 Analyzed: 03/19/2025

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.0963	0.00380	"	0.100		96.3	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.226	0.00400	"	0.200		113	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	70-130			

Matrix Spike (B5C1956-MS1)

Source: E5C0696-01

Prepared: 03/19/2025 Analyzed: 03/19/2025

1,2,4-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100	ND	98.1	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 B5C1956 - EPA 5030 (soil)

Matrix Spike (B5C1956-MS1)

Source: E5C0696-01

Prepared: 03/19/2025 Analyzed: 03/19/2025

1,3,5-Trimethylbenzene	0.0970	0.00200	mg/kg	0.100	ND	97.0	70-130			
Benzene	0.0965	0.00200	"	0.100	ND	96.5	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
Naphthalene	0.0833	0.00380	"	0.100	0.00286	80.4	70-130			
Toluene	0.0978	0.00200	"	0.100	ND	97.8	70-130			
o-Xylene	0.0968	0.00200	"	0.100	ND	96.8	70-130			
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.5	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.0	70-130			

Matrix Spike Dup (B5C1956-MSD1)

Source: E5C0696-01

Prepared: 03/19/2025 Analyzed: 03/19/2025

1,2,4-Trimethylbenzene	0.0920	0.00200	mg/kg	0.100	ND	92.0	70-130	6.37	20	
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130	6.93	20	
Benzene	0.0946	0.00200	"	0.100	ND	94.6	70-130	1.90	20	
Ethylbenzene	0.0937	0.00200	"	0.100	ND	93.7	70-130	4.59	20	
Naphthalene	0.0935	0.00380	"	0.100	0.00286	90.6	70-130	11.6	20	
Toluene	0.0951	0.00200	"	0.100	ND	95.1	70-130	2.82	20	
o-Xylene	0.0925	0.00200	"	0.100	ND	92.5	70-130	4.50	20	
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.7	70-130	3.95	20	

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.8	70-130			

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Paul Henehan
Project Number: [none]
Project: Chevron - Howard USX A09-13
Excavation

**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
Batch 368165 - EPA 3060A										
BLANK (QC1246562)										
					Prepared: 04/07/2025 Analyzed: 04/08/2025					
Hexavalent Chromium	ND	0.30	mg/Kg			-				ND
LCS (QC1246563)										
					Prepared: 04/07/2025 Analyzed: 04/08/2025					
Hexavalent Chromium	35.42	0.6000	mg/Kg	40.00		89	80-120			
Duplicate (QC1246564)										
					Source: E5C0698-01 Prepared: 04/07/2025 Analyzed: 04/08/2025					
Hexavalent Chromium	ND	0.2941	mg/Kg		0				30	ND
Matrix Spike (QC1246566)										
					Source: E5C0698-01 Prepared: 04/07/2025 Analyzed: 04/08/2025					
Hexavalent Chromium	31.58	0.5859	mg/Kg	39.06	0	81	70-130			

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Bynon

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Project: Chevron - Howard USX A09-13
Excavation

**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
Batch 368072 - EPA 3060A										
BLANK (QC1246237)										
					Prepared: 04/06/2025 Analyzed: 04/08/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
LCS (QC1246238)										
					Prepared: 04/06/2025 Analyzed: 04/08/2025					
Hexavalent Chromium	39.94	0.6000	mg/Kg	40.00		100	80-120			
Matrix Spike (QC1246239)										
					Source: 530166-001 Prepared: 04/06/2025 Analyzed: 04/08/2025					
Hexavalent Chromium	38.13	0.5882	mg/Kg	39.22	0.1505	97	70-130			
Duplicate (QC1246240)										
					Source: 530166-001 Prepared: 04/06/2025 Analyzed: 04/08/2025					
Hexavalent Chromium	ND	0.2941	mg/Kg		0		-		30	ND

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Project: Chevron - Howard USX A09-13
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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.
 - 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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