



Two Dot Consulting

Kyle Johnson

2200 West 29th Ave

Denver

CO

80211

April 01, 2025

Project Name - Chevron - Dillard USX AB03-05P Project Number - [none]

Attached are your analytical results for Chevron - Dillard USX AB03-05P received by Origins Laboratory March 12, 2025. This project is associated with Origins project number E5C0440-01.

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



Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: [none]
Project: Chevron - Dillard USX AB03-05P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@4'	E5C0440-01	Soil	March 12, 2025 9:05	03/12/2025 17:18
BKG01@6'	E5C0440-02	Soil	March 12, 2025 9:15	03/12/2025 17:18
BKG02@4'	E5C0440-03	Soil	March 12, 2025 9:30	03/12/2025 17:18
BKG02@6'	E5C0440-04	Soil	March 12, 2025 9:40	03/12/2025 17:18
BKG03@4'	E5C0440-05	Soil	March 12, 2025 9:50	03/12/2025 17:18
BKG03@6'	E5C0440-06	Soil	March 12, 2025 10:00	03/12/2025 17:18

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ORIGINS LABORATORY

Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

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

Sample Receipt Checklist

Origins Work Order: E5C0440 Client: TINO JET
 Client Project ID: Dillard
 Checklist Completed by: AK/JAR Shipped Via: HD
 Date/time completed: 3/13 Airbill #: _____
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 15.1 °C °C °C (Describe) _____ °C
 Thermometer ID: 7007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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 (> 1/2 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) ⁽¹⁾ = 2 for samples preserved with HNO3, HCL, H2SO4 / (pH > 10 for samples preserved with NaOH, Na2CO3, 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) AK

Date/Time Reviewed 3/16/25

Origins Laboratory



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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG01@4'

3/12/2025 9:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0440-01 (Soil)
 Origins Laboratory**

Boron (DTPA Sorbitol)

Boron	2.03		0.0995	mg/L	1	B5C1417	03/14/2025	03/17/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	17.0		0.499	meq/L	10	[CALC]	03/14/2025	03/19/2025	
Magnesium	11.6		0.823	"	"	"	"	"	
Sodium	23.5		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.08			pH Units	1	B5C1436	03/14/2025	03/18/2025	
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SAR by 20B Saturated Paste

SAR	6.20		0.0100	SAR	1	B5C1430	03/14/2025	03/19/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.63		0.00500	mmhos/cm	1	B5C1436	03/14/2025	03/18/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.44		0.247	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Barium	132		8.52	"	"	"	"	"	
Cadmium	0.300		0.0852	"	"	"	"	"	
Copper	15.7		8.52	"	"	"	"	"	

Origins Laboratory

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Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG01@4'

3/12/2025 9:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0440-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	15.2	0.852	0.852	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Nickel	13.8	0.852	0.852	"	"	"	"	"	"
Selenium	1.65	0.222	0.222	"	"	"	"	"	"
Silver	0.0929	0.0852	0.0852	"	"	"	"	"	"
Zinc	62.8	31.5	31.5	"	"	"	"	"	"

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A101008	03/12/2025	03/20/2025	
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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG01@6'

3/12/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0440-02 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.646		0.102	mg/L	1	B5C1417	03/14/2025	03/17/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	6.10		0.499	meq/L	10	[CALC]	03/14/2025	03/19/2025	
Magnesium	3.52		0.823	"	"	"	"	"	
Sodium	17.3		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B5C1436	03/14/2025	03/18/2025	
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SAR by 20B Saturated Paste

SAR	7.87		0.0100	SAR	1	B5C1430	03/14/2025	03/19/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.50		0.00500	mmhos/cm	1	B5C1436	03/14/2025	03/18/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.78		0.269	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Barium	118		9.27	"	"	"	"	"	
Cadmium	0.243		0.0927	"	"	"	"	"	
Copper	11.0		9.27	"	"	"	"	"	

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 Project: Chevron - Dillard USX AB03-05P

BKG01@6'

3/12/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0440-02 (Soil)

Origins Laboratory

Table 915 metals by EPA 6020B

Lead	11.6	0.927	0.927	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Nickel	10.5	0.927	0.927	"	"	"	"	"	
Selenium	0.461	0.241	0.241	"	"	"	"	"	
Silver	ND	0.0927	0.0927	"	"	"	"	"	
Zinc	45.4	34.3	34.3	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A101008	03/12/2025	03/20/2025	
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Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG02@4'

3/12/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0440-03 (Soil)
 Origins Laboratory**

Boron (DTPA Sorbitol)

Boron	0.902		0.101	mg/L	1	B5C1417	03/14/2025	03/17/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	8.20		0.499	meq/L	10	[CALC]	03/14/2025	03/19/2025	
Magnesium	4.84		0.823	"	"	"	"	"	
Sodium	15.1		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B5C1436	03/14/2025	03/18/2025	
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SAR by 20B Saturated Paste

SAR	5.93		0.0100	SAR	1	B5C1430	03/14/2025	03/19/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.64		0.00500	mmhos/cm	1	B5C1436	03/14/2025	03/18/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.85		0.262	mg/kg	10	B5C1856	03/18/2025	03/19/2025	
Barium	96.1		9.02	"	"	"	"	"	
Cadmium	0.291		0.0902	"	"	"	"	"	
Copper	10.6		9.02	"	"	"	"	"	

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 Project Number: [none]
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BKG02@4'

3/12/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0440-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	10.6	0.902	0.902	mg/kg	10	B5C1856	03/18/2025	03/19/2025	
Nickel	10.8	0.902	0.902	"	"	"	"	"	
Selenium	0.829	0.235	0.235	"	"	"	"	"	
Silver	0.109	0.0902	0.0902	"	"	"	"	"	
Zinc	41.4	33.4	33.4	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A101008	03/12/2025	03/20/2025	
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Origins Laboratory

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 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG02@6'

3/12/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0440-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.902		0.101	mg/L	1	B5C1417	03/14/2025	03/17/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	5.80		0.499	meq/L	10	[CALC]	03/14/2025	03/19/2025	
Magnesium	3.97		0.823	"	"	"	"	"	
Sodium	21.8		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.30			pH Units	1	B5C1436	03/14/2025	03/18/2025	
SAR by 20B Saturated Paste									
SAR	9.88		0.0100	SAR	1	B5C1430	03/14/2025	03/19/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.83		0.00500	mmhos/cm	1	B5C1436	03/14/2025	03/18/2025	
Table 915 metals by EPA 6020B									
Arsenic	3.31		0.271	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Barium	64.9		9.33	"	"	"	"	"	
Cadmium	0.224		0.0933	"	"	"	"	"	
Copper	9.72		9.33	"	"	"	"	"	

Origins Laboratory

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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG02@6'

3/12/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0440-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	10.3	0.933	0.933	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Nickel	9.32	0.933	0.933	"	"	"	"	"	
Selenium	0.330	0.243	0.243	"	"	"	"	"	
Silver	ND	0.0933	0.0933	"	"	"	"	"	
Zinc	42.3	34.5	34.5	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A101008	03/12/2025	03/20/2025	
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Origins Laboratory

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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG03@4'

3/12/2025 9:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0440-05 (Soil)
 Origins Laboratory**

Boron (DTPA Sorbitol)

Boron	0.610		0.0982	mg/L	1	B5C1417	03/14/2025	03/17/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	2.32		0.499	meq/L	10	[CALC]	03/14/2025	03/19/2025	
Magnesium	1.38		0.823	"	"	"	"	"	
Sodium	2.54		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.35			pH Units	1	B5C1436	03/14/2025	03/18/2025	
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SAR by 20B Saturated Paste

SAR	1.87		0.0100	SAR	1	B5C1430	03/14/2025	03/19/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.640		0.00500	mmhos/cm	1	B5C1436	03/14/2025	03/18/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.09		0.254	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Barium	58.3		8.77	"	"	"	"	"	
Cadmium	0.140		0.0877	"	"	"	"	"	
Copper	ND		8.77	"	"	"	"	"	

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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG03@4'

3/12/2025 9:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0440-05 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	7.16	0.877	0.877	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Nickel	7.00	0.877	0.877	"	"	"	"	"	
Selenium	ND	0.228	0.228	"	"	"	"	"	
Silver	ND	0.0877	0.0877	"	"	"	"	"	
Zinc	ND	32.4	32.4	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A101008	03/12/2025	03/20/2025	
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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

BKG03@6'

3/12/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0440-06 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.502		0.102	mg/L	1	B5C1417	03/14/2025	03/17/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	03/14/2025	03/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.41		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.61			pH Units	1	B5C1436	03/14/2025	03/18/2025	
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SAR by 20B Saturated Paste

SAR	6.38		0.0100	SAR	1	B5C1430	03/14/2025	03/19/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.392		0.00500	mmhos/cm	1	B5C1436	03/14/2025	03/18/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.89		0.269	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Barium	183		9.26	"	"	"	"	"	
Cadmium	0.133		0.0926	"	"	"	"	"	

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2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: [none]
Project: Chevron - Dillard USX AB03-05P

BKG03@6'

3/12/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0440-06 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Copper	ND	9.26	mg/kg	10	B5C1502	03/15/2025	03/17/2025	
Lead	7.51	0.926	"	"	"	"	"	"
Nickel	6.91	0.926	"	"	"	"	"	"
Selenium	ND	0.241	"	"	"	"	"	"
Silver	ND	0.0926	"	"	"	"	"	"
Zinc	ND	34.3	"	"	"	"	"	"

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A101008	03/12/2025	03/20/2025
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Origins Laboratory

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Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

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 B5C1417 - DTPA Sorbitol Preparation

Blank (B5C1417-BLK1)

Prepared: 03/14/2025 Analyzed: 03/17/2025

Boron ND 0.100 mg/L

Duplicate (B5C1417-DUP1)

Source: E5C0441-01

Prepared: 03/14/2025 Analyzed: 03/17/2025

Boron 0.153 0.0988 mg/L 0.161 5.60 50

Batch B5C1430 - Saturated Paste Metals

Blank (B5C1430-BLK1)

Prepared: 03/14/2025 Analyzed: 03/19/2025

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B5C1430-DUP1)

Source: E5C0435-08

Prepared: 03/14/2025 Analyzed: 03/19/2025

Calcium PPM 64.7 10.0 mg/L 56.9 12.8 50

SAR ND 0.0100 SAR 25.0 200

Magnesium PPM 82.2 10.0 mg/L 72.6 12.5 50

Sodium PPM 1300 10.0 " 1210 7.20 50

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Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

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 B5C1502 - EPA 3050B

Blank (B5C1502-BLK1)

Prepared: 03/15/2025 Analyzed: 03/17/2025

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	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B5C1502-BS1)

Prepared: 03/15/2025 Analyzed: 03/17/2025

Arsenic	5.46	0.290	mg/kg	5.00	109	80-120				
Barium	587	10.0	"	500	117	80-120				
Cadmium	5.55	0.100	"	5.00	111	80-120				
Copper	54.6	10.0	"	50.0	109	80-120				
Lead	5.58	1.00	"	5.00	112	80-120				
Nickel	5.52	1.00	"	5.00	110	80-120				
Silver	5.73	0.100	"	5.00	115	80-120				
Zinc	53.4	37.0	"	50.0	107	80-120				

Matrix Spike (B5C1502-MS1)

Source: E5C0426-21

Prepared: 03/15/2025 Analyzed: 03/17/2025

Arsenic	7.37	0.284	mg/kg	4.89	1.71	116	75-125			
Barium	650	9.79	"	489	60.0	121	75-125			
Cadmium	5.62	0.0979	"	4.89	0.0327	114	75-125			
Copper	59.2	9.79	"	48.9	3.46	114	75-125			
Lead	11.1	0.979	"	4.89	4.19	142	75-125			QM-07
Nickel	10.2	0.979	"	4.89	4.13	124	75-125			
Silver	5.74	0.0979	"	4.89	0.00454	117	75-125			

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 Project: Chevron - Dillard USX AB03-05P

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 B5C1502 - EPA 3050B

Matrix Spike (B5C1502-MS1)

Source: E5C0426-21

Prepared: 03/15/2025 Analyzed: 03/17/2025

Zinc	72.5	36.2	mg/kg	48.9	15.0	118	75-125			
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Matrix Spike Dup (B5C1502-MSD1)

Source: E5C0426-21

Prepared: 03/15/2025 Analyzed: 03/17/2025

Arsenic	6.32	0.259	mg/kg	4.46	1.71	103	75-125	15.4	20	
Barium	564	8.92	"	446	60.0	113	75-125	14.2	20	
Cadmium	4.90	0.0892	"	4.46	0.0327	109	75-125	13.8	20	
Copper	51.5	8.92	"	44.6	3.46	108	75-125	13.9	20	
Lead	9.37	0.892	"	4.46	4.19	116	75-125	17.3	20	
Nickel	8.28	0.892	"	4.46	4.13	93.0	75-125	20.6	20	QR-02
Silver	5.00	0.0892	"	4.46	0.00454	112	75-125	13.7	20	
Zinc	62.1	33.0	"	44.6	15.0	106	75-125	15.4	20	

Batch B5C1856 - EPA 3050B

Blank (B5C1856-BLK1)

Prepared: 03/18/2025 Analyzed: 03/19/2025

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 (B5C1856-BS1)

Prepared: 03/18/2025 Analyzed: 03/19/2025

Arsenic	5.30	0.290	mg/kg	5.00	106	80-120				
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Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

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 B5C1856 - EPA 3050B

LCS (B5C1856-BS1)

Prepared: 03/18/2025 Analyzed: 03/19/2025

Barium	543	10.0	mg/kg	500		109	80-120			
Cadmium	5.34	0.100	"	5.00		107	80-120			
Copper	54.6	10.0	"	50.0		109	80-120			
Lead	5.25	1.00	"	5.00		105	80-120			
Nickel	5.36	1.00	"	5.00		107	80-120			
Selenium	5.42	0.260	"	5.00		108	80-120			
Silver	5.09	0.100	"	5.00		102	80-120			
Zinc	50.8	37.0	"	50.0		102	80-120			

Matrix Spike (B5C1856-MS1)

Source: E5C0643-04

Prepared: 03/18/2025 Analyzed: 03/19/2025

Arsenic	14.2	0.283	mg/kg	4.89	6.29	161	75-125			QM-07
Barium	609	9.77	"	489	79.7	108	75-125			
Cadmium	5.77	0.0977	"	4.89	0.130	115	75-125			
Copper	66.3	9.77	"	48.9	10.3	115	75-125			
Lead	18.2	0.977	"	4.89	11.1	146	75-125			QM-07
Nickel	13.9	0.977	"	4.89	8.55	110	75-125			
Selenium	5.60	0.254	"	4.89	0.300	108	75-125			
Silver	5.35	0.0977	"	4.89	0.0416	109	75-125			
Zinc	91.1	36.2	"	48.9	42.1	100	75-125			

Matrix Spike Dup (B5C1856-MSD1)

Source: E5C0643-04

Prepared: 03/18/2025 Analyzed: 03/19/2025

Arsenic	12.3	0.257	mg/kg	4.44	6.29	136	75-125	13.9	20	QM-07
Barium	588	8.88	"	444	79.7	114	75-125	3.49	20	
Cadmium	5.16	0.0888	"	4.44	0.130	113	75-125	11.1	20	
Copper	63.5	8.88	"	44.4	10.3	120	75-125	4.24	20	
Lead	15.9	0.888	"	4.44	11.1	110	75-125	13.3	20	
Nickel	14.1	0.888	"	4.44	8.55	126	75-125	1.47	20	QM-07

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Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1856 - EPA 3050B

Matrix Spike Dup (B5C1856-MSD1)

Source: E5C0643-04

Prepared: 03/18/2025 Analyzed: 03/19/2025

Selenium	5.05	0.231	mg/kg	4.44	0.300	107	75-125	10.3	20	
Silver	4.87	0.0888	"	4.44	0.0416	109	75-125	9.36	20	
Zinc	90.0	32.8	"	44.4	42.1	108	75-125	1.24	20	

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Kyle Johnson
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 Project: Chevron - Dillard USX AB03-05P

Saturated Paste - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1436 - Saturated Paste pH/EC

Blank (B5C1436-BLK1)

Prepared: 03/14/2025 Analyzed: 03/18/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5C1436-DUP1)

Source: E5C0435-08

Prepared: 03/14/2025 Analyzed: 03/18/2025

Specific Conductance (EC)	5.86	0.00500	mmhos/cm		5.46		7.19	25	
pH	8.46		pH Units		8.47		0.118	25	

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Kyle Johnson
 Project Number: [none]
 Project: Chevron - Dillard USX AB03-05P

**Total Metals 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A101008 -

DUP (L 95131-DUP)		Source: 95131			Prepared: Analyzed: 03/20/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
MS (L 95131-MS)		Source: 95131			Prepared: Analyzed: 03/20/2025					
Chromium, Hexavalent	1.35	0.5	mg/Kg	7.97	<0.244	17	75-125			*
DUP (L 95150-DUP)		Source: 95150			Prepared: Analyzed: 03/20/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
LCS (LCS)					Prepared: Analyzed: 03/20/2025					
Chromium, Hexavalent	6.96	0.5	mg/Kg	7.9	88	75-125				
LRB (LRB)					Prepared: Analyzed: 03/20/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		-					

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Denver CO 80211

Kyle Johnson
Project Number: [none]
Project: Chevron - Dillard USX AB03-05P

Notes and Definitions

- 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.
 - * QC Failure
 - 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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