



**Two Dot Consulting**

**Kyle Johnson**

**2200 West 29th Ave**

**Denver**

**CO**

**80211**

**July 21, 2025**

**Project Name - Chevron - Gutttersen USX D21-17**

**Project Number - 3301102**

Attached are your analytical results for Chevron - Gutttersen USX D21-17 received by Origins Laboratory June 19, 2025. This project is associated with Origins project number E5F0427-01.

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: 3301102  
Project: Chevron - Gutteresen USX D21-17

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@4'	E5F0427-01	Soil	June 19, 2025 10:56	06/19/2025 17:50
BKG01@6'	E5F0427-02	Soil	June 19, 2025 11:03	06/19/2025 17:50
BKG02@4'	E5F0427-03	Soil	June 19, 2025 11:12	06/19/2025 17:50
BKG02@6'	E5F0427-04	Soil	June 19, 2025 11:16	06/19/2025 17:50
BKG03@4'	E5F0427-05	Soil	June 19, 2025 11:26	06/19/2025 17:50
BKG03@6'	E5F0427-06	Soil	June 19, 2025 11:31	06/19/2025 17:50

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

# ORIGINS LABORATORY

Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Guttersten USX D21-17



**ESF0427**

Page 1 of 1

Client: Chevron  
 Address: 4000 Burlington Ave.  
 Evans CO 80620  
 Telephone Number: 303-766-1431  
 Email Address: RRUJUT27@chevron.com  
 Project Name: Guttersten USX D21-17  
 Project Number: 3301-102  
 Collected By: 2Dot Consulting  
 Invoice/Billing Info: Chevron  
 W=Water  
 GH=Groundwater  
 SW=Surface Water  
 VW=Waste Water  
 L=Liquid

S=Soil SO=Solid O=Oil A=Air G=Gas U=Urepress HCL=Hydrochloric HNO3=Nitric H2SO4=Sulfuric NaOH=Sodium Hydroxide

Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
							Full Table 9.15	10 Metals	Reclamation	
BK001 @ 4'	6/19/15	10:56am		2	S	Ice	X	X		
BK001 @ 6'		11:03am		2	S	Ice	X	X		
BK002 @ 4'		11:12am		2	S	Ice	X	X		
BK002 @ 6'		11:16am		2	S	Ice	X	X		
BK003 @ 4'		11:20am		2	S	Ice	X	X		
BK003 @ 6'		11:31am		2	S	Ice	X	X		

Relinquished By: Sarah Wilson Date: 6/19/15 Time: 1:58pm  
 Received By: NB Date: 6/19/15 Time: 10:34  
 Relinquished By: NB Date: 6/19/15 Time: 17:50  
 Received By: MBQ Date: 6/19/15 Time: 17:50

Temp Received: 11.6 °C Received On Ice?  Yes  No  
 Turnaround Time:  48 Hr  72 Hr  SAME DAY  24 Hr  Standard

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301102  
Project: Chevron - Guttersten USX D21-17

Origins Laboratory

### Sample Receipt Checklist

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

Origins Work Order: E5E0427 Client: Two Dot  
Client Project ID: Guttersten USX D21-17  
Checklist Completed by: NB/SMC Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 6/20/25 Airbill #: N/A  
Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
Cooler Number/Temperature: 1/1.0 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: 1007

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

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

RRC  
Reviewed by (Project Manager)

6/20/25  
Date/Time Reviewed

Origins Laboratory

EHO

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301102  
Project: Chevron - Gutteresen USX D21-17

**BKG01@4'**

**6/19/2025 10:56:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0427-01 (Soil) Enthalpy Orange</b>									
<b>TOTAL METALS BY 7199</b>									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	375666	07/07/2025	07/08/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	ND		0.100	mg/L	1	B5F2025	06/20/2025	06/23/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	ND		0.499	meq/L	10	[CALC]	06/20/2025	06/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	7.59			pH Units	1	B5F2024	06/20/2025	06/21/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.335		0.0100	SAR	1	B5F2022	06/20/2025	06/23/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.0423		0.00500	mmhos/cm	1	B5F2024	06/20/2025	06/21/2025	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**BKG01@4'**

**6/19/2025 10:56:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5F0427-01 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	3.79		0.279	mg/kg	10	B5F2321	06/23/2025	06/24/2025	
Barium	ND		78.9	"	"	"	"	"	
Cadmium	ND		0.365	"	"	"	"	"	
Copper	ND		44.2	"	"	"	"	"	
Lead	ND		13.5	"	"	"	"	"	
Nickel	ND		25.0	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.769	"	"	"	"	"	
Zinc	ND		356	"	"	"	"	"	

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301102  
Project: Chevron - Gutteresen USX D21-17

**BKG01@6'**

**6/19/2025 11:03:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0427-02 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>TOTAL METALS BY 7199</b>									
Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	375666	07/07/2025	07/08/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.269		0.100	mg/L	1	B5F2025	06/20/2025	06/23/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	1.12		0.499	meq/L	10	[CALC]	06/20/2025	06/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"	"
<b>pH in Soil by 9045D</b>									
pH	8.44			pH Units	1	B5F2024	06/20/2025	06/21/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.450		0.0100	SAR	1	B5F2022	06/20/2025	06/23/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.206		0.00500	mmhos/cm	1	B5F2024	06/20/2025	06/21/2025	

Origins Laboratory



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**BKG01@6'**

**6/19/2025 11:03:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5F0427-02 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	4.79		0.245	mg/kg	10	B5F2321	06/23/2025	06/24/2025	
Barium	143		69.4	"	"	"	"	"	
Cadmium	ND		0.321	"	"	"	"	"	
Copper	ND		38.9	"	"	"	"	"	
Lead	ND		11.8	"	"	"	"	"	
Nickel	ND		22.0	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.677	"	"	"	"	"	
Zinc	ND		313	"	"	"	"	"	

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301102  
Project: Chevron - Gutteresen USX D21-17

**BKG02@4'**

**6/19/2025 11:12:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5F0427-03 (Soil)  
Enthalpy Orange**

**TOTAL METALS BY 7199**

Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	376512	07/16/2025	07/16/2025	ND
---------------------	----	------	------	-------	---	--------	------------	------------	----

**Origins Laboratory**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B5F2025	06/20/2025	06/23/2025	
-------	----	--	-------	------	---	---------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	2.35		0.499	meq/L	10	[CALC]	06/20/2025	06/23/2025	
Magnesium	1.40		0.823	"	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.36			pH Units	1	B5F2024	06/20/2025	06/21/2025	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.133		0.0100	SAR	1	B5F2022	06/20/2025	06/23/2025	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0700		0.00500	mmhos/cm	1	B5F2024	06/20/2025	06/21/2025	
---------------------------	--------	--	---------	----------	---	---------	------------	------------	--

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**BKG02@4'**

**6/19/2025 11:12:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0427-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.05		0.257	mg/kg	10	B5F2321	06/23/2025	06/24/2025	
Barium	ND		72.7	"	"	"	"	"	
Cadmium	ND		0.337	"	"	"	"	"	
Copper	ND		40.8	"	"	"	"	"	
Lead	ND		12.4	"	"	"	"	"	
Nickel	ND		23.1	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.710	"	"	"	"	"	
Zinc	ND		328	"	"	"	"	"	

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301102  
Project: Chevron - Gutteresen USX D21-17

**BKG02@6'**

**6/19/2025 11:16:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5F0427-04 (Soil)  
Enthalpy Orange**

**TOTAL METALS BY 7199**

Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	374965	06/26/2025	06/27/2025	ND
---------------------	----	------	------	-------	---	--------	------------	------------	----

**Origins Laboratory**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0999	mg/L	1	B5F2025	06/20/2025	06/23/2025	
-------	----	--	--------	------	---	---------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	2.71		0.499	meq/L	10	[CALC]	06/20/2025	06/23/2025	
Magnesium	1.75		0.823	"	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.62			pH Units	1	B5F2024	06/20/2025	06/21/2025	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.119		0.0100	SAR	1	B5F2022	06/20/2025	06/23/2025	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0400		0.00500	mmhos/cm	1	B5F2024	06/20/2025	06/21/2025	
---------------------------	--------	--	---------	----------	---	---------	------------	------------	--

Origins Laboratory



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**BKG02@6'**

**6/19/2025 11:16:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0427-04 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	1.90		0.272	mg/kg	10	B5F2321	06/23/2025	06/24/2025	
Barium	ND		76.9	"	"	"	"	"	
Cadmium	ND		0.356	"	"	"	"	"	
Copper	ND		43.1	"	"	"	"	"	
Lead	ND		13.1	"	"	"	"	"	
Nickel	ND		24.4	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.750	"	"	"	"	"	
Zinc	ND		347	"	"	"	"	"	

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**BKG03@4'**

**6/19/2025 11:26:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0427-05 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>TOTAL METALS BY 7199</b>									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	374965	06/26/2025	06/27/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.179		0.100	mg/L	1	B5F2025	06/20/2025	06/23/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	1.40		0.499	meq/L	10	[CALC]	06/20/2025	06/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"	"
<b>pH in Soil by 9045D</b>									
pH	8.39			pH Units	1	B5F2024	06/20/2025	06/21/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.109		0.0100	SAR	1	B5F2022	06/20/2025	06/23/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.175		0.00500	mmhos/cm	1	B5F2024	06/20/2025	06/21/2025	

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**BKG03@4'**

**6/19/2025 11:26:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0427-05 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.75		0.256	mg/kg	10	B5F2321	06/23/2025	06/24/2025	
Barium	72.7		72.4	"	"	"	"	"	
Cadmium	ND		0.336	"	"	"	"	"	
Copper	ND		40.6	"	"	"	"	"	
Lead	ND		12.4	"	"	"	"	"	
Nickel	ND		23.0	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.707	"	"	"	"	"	
Zinc	ND		327	"	"	"	"	"	

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301102  
Project: Chevron - Gutteresen USX D21-17

**BKG03@6'**

**6/19/2025 11:31:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0427-06 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>TOTAL METALS BY 7199</b>									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	375666	07/07/2025	07/08/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.105		0.100	mg/L	1	B5F2027	06/20/2025	06/23/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	1.22		0.499	meq/L	10	[CALC]	06/20/2025	06/23/2025	
Magnesium	0.857		0.823	"	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"	"
<b>pH in Soil by 9045D</b>									
pH	8.47			pH Units	1	B5F2024	06/20/2025	06/21/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.257		0.0100	SAR	1	B5F2022	06/20/2025	06/23/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.231		0.00500	mmhos/cm	1	B5F2024	06/20/2025	06/21/2025	

Origins Laboratory



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**BKG03@6'**

**6/19/2025 11:31:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5F0427-06 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	3.82		0.288	mg/kg	10	B5F2321	06/23/2025	06/24/2025	
Barium	129		81.3	"	"	"	"	"	
Cadmium	ND		0.377	"	"	"	"	"	
Copper	ND		45.6	"	"	"	"	"	
Lead	ND		13.9	"	"	"	"	"	
Nickel	ND		25.8	"	"	"	"	"	
Selenium	ND		0.258	"	"	"	"	"	
Silver	ND		0.794	"	"	"	"	"	
Zinc	ND		367	"	"	"	"	"	

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

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

**Batch B5F2022 - Saturated Paste Metals**

**Blank (B5F2022-BLK1)**

Prepared: 06/20/2025 Analyzed: 06/23/2025

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

**Duplicate (B5F2022-DUP1)**

**Source: E5F0425-05**

Prepared: 06/20/2025 Analyzed: 06/23/2025

SAR	ND	0.0100	SAR	ND				200		
Calcium PPM	51.6	10.0	mg/L	50.0				3.13	50	
Magnesium PPM	15.6	10.0	"	15.0				3.91	50	
Sodium PPM	24.5	10.0	"	23.6				3.49	50	

**Batch B5F2025 - DTPA Sorbitol Preparation**

**Blank (B5F2025-BLK1)**

Prepared: 06/20/2025 Analyzed: 06/23/2025

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

**Duplicate (B5F2025-DUP1)**

**Source: E5F0425-01**

Prepared: 06/20/2025 Analyzed: 06/23/2025

Boron	0.0974	0.100	mg/L	0.226				79.7	50	QR-DUP
-------	--------	-------	------	-------	--	--	--	------	----	--------

**Batch B5F2027 - DTPA Sorbitol Preparation**

**Blank (B5F2027-BLK1)**

Prepared: 06/20/2025 Analyzed: 06/23/2025

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

**Duplicate (B5F2027-DUP1)**

**Source: E5F0427-06**

Prepared: 06/20/2025 Analyzed: 06/23/2025

Boron	0.116	0.100	mg/L	0.105				10.8	50	
-------	-------	-------	------	-------	--	--	--	------	----	--

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**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 B5F2321 - EPA 3050B**

Prepared: 06/23/2025 Analyzed: 06/24/2025

**Blank (B5F2321-BLK1)**

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

**LCS (B5F2321-BS1)**

Prepared: 06/23/2025 Analyzed: 06/24/2025

Arsenic	5.59	0.290	mg/kg	5.00		112	80-120			
Barium	555	82.0	"	500		111	80-120			
Cadmium	5.71	0.380	"	5.00		114	80-120			
Copper	55.3	46.0	"	50.0		111	80-120			
Lead	5.29	14.0	"	5.00		106	80-120			
Nickel	5.82	26.0	"	5.00		116	80-120			
Selenium	5.69	0.260	"	5.00		114	80-120			
Silver	5.46	0.800	"	5.00		109	80-120			
Zinc	57.8	370	"	50.0		116	80-120			

**Matrix Spike (B5F2321-MS1)**

Source: E5F0423-01

Prepared: 06/23/2025 Analyzed: 06/24/2025

Arsenic	8.26	0.257	mg/kg	4.43	4.20	91.6	75-125			
Barium	669	72.6	"	443	99.0	129	75-125			QM-07
Cadmium	5.35	0.337	"	4.43	0.0826	119	75-125			
Copper	55.4	40.8	"	44.3	5.26	113	75-125			
Lead	9.98	12.4	"	4.43	6.24	84.4	75-125			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**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 B5F2321 - EPA 3050B**

**Matrix Spike (B5F2321-MS1)**

**Source: E5F0423-01**

Prepared: 06/23/2025 Analyzed: 06/24/2025

Nickel	11.3	23.0	mg/kg	4.43	5.77	125	75-125			
Selenium	5.34	0.230	"	4.43	0.224	115	75-125			
Silver	5.05	0.709	"	4.43	0.00751	114	75-125			
Zinc	71.9	328	"	44.3	21.5	114	75-125			

**Matrix Spike Dup (B5F2321-MSD1)**

**Source: E5F0423-01**

Prepared: 06/23/2025 Analyzed: 06/24/2025

Arsenic	8.69	0.275	mg/kg	4.73	4.20	94.7	75-125	5.04	20	
Barium	676	77.7	"	473	99.0	122	75-125	1.08	20	
Cadmium	5.44	0.360	"	4.73	0.0826	113	75-125	1.71	20	
Copper	58.9	43.6	"	47.3	5.26	113	75-125	5.99	20	
Lead	9.48	13.3	"	4.73	6.24	68.4	75-125	5.18	20	QM-07
Nickel	11.2	24.6	"	4.73	5.77	114	75-125	1.27	20	
Selenium	5.59	0.246	"	4.73	0.224	113	75-125	4.59	20	
Silver	5.02	0.758	"	4.73	0.00751	106	75-125	0.683	20	
Zinc	75.5	350	"	47.3	21.5	114	75-125	4.89	20	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**Saturated Paste - Quality Control**  
**Origins Laboratory**

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

**Batch B5F2024 - Saturated Paste pH/EC**

**Blank (B5F2024-BLK1)**

Prepared: 06/20/2025 Analyzed: 06/21/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B5F2024-DUP1)**

**Source: E5F0425-05**

Prepared: 06/20/2025 Analyzed: 06/21/2025

pH 8.29 pH Units 8.33 0.481 25

Specific Conductance (EC) 0.542 0.00500 mmhos/cm 0.542 0.0738 25

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**TOTAL METALS BY 7199 - Quality Control**  
**Enthalpy Orange**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 376512 - EPA 3060A</b>										
<b>BLANK (QC1274766)</b>										
					Prepared: 07/16/2025 Analyzed: 07/16/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
<b>LCS (QC1274767)</b>										
					Prepared: 07/16/2025 Analyzed: 07/16/2025					
Hexavalent Chromium	40.24	0.6000	mg/Kg	40.00		101	80-120			
<b>Duplicate (QC1274769)</b>										
		<b>Source: 536062-001</b>				Prepared: 07/16/2025 Analyzed: 07/16/2025				
Hexavalent Chromium	ND	0.3000	mg/Kg		0		-		30	ND
<b>Matrix Spike (QC1274770)</b>										
		<b>Source: 536062-001</b>				Prepared: 07/16/2025 Analyzed: 07/16/2025				
Hexavalent Chromium	37.20	0.5882	mg/Kg	39.22	0	95	70-130			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**TOTAL METALS BY 7199 - Quality Control**  
**Enthalpy Orange**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 375666 - EPA 3060A</b>										
<b>BLANK (QC1271949)</b>										
					Prepared: 07/07/2025 Analyzed: 07/08/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
<b>LCS (QC1271950)</b>										
					Prepared: 07/07/2025 Analyzed: 07/08/2025					
Hexavalent Chromium	40.23	0.6000	mg/Kg	40.00		101	80-120			
<b>Duplicate (QC1271951)</b>										
					Source: 536426-001 Prepared: 07/07/2025 Analyzed: 07/08/2025					
Hexavalent Chromium	ND	0.2964	mg/Kg		0		-		30	ND
<b>Matrix Spike (QC1271952)</b>										
					Source: 536426-001 Prepared: 07/07/2025 Analyzed: 07/08/2025					
Hexavalent Chromium	39.58	0.5976	mg/Kg	39.84	0	99	70-130			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301102  
 Project: Chevron - Gutteresen USX D21-17

**TOTAL METALS BY 7199 - Quality Control**  
**Enthalpy Orange**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 374965 - EPA 3060A</b>										
<b>BLANK (QC1269640)</b>										
					Prepared: 06/26/2025 Analyzed: 06/27/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
<b>LCS (QC1269641)</b>										
					Prepared: 06/26/2025 Analyzed: 06/27/2025					
Hexavalent Chromium	38.48	0.6000	mg/Kg	40.00		96	80-120			
<b>Duplicate (QC1269643)</b>										
		<b>Source: 536081-012</b>				Prepared: 06/26/2025 Analyzed: 06/27/2025				
Hexavalent Chromium	ND	0.2953	mg/Kg		0		-		30	ND
<b>Matrix Spike (QC1269644)</b>										
		<b>Source: 536081-012</b>				Prepared: 06/26/2025 Analyzed: 06/27/2025				
Hexavalent Chromium	28.84	0.5792	mg/Kg	38.61	0	75	70-130			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301102  
Project: Chevron - Gutteresen USX D21-17

### Notes and Definitions

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

Origins Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*