

April 12, 2024

**Entrada Consulting Group**

**Chelsea Veryter**

**330 Grand Ave. Unit C**

**Grand Junction CO 81501**

**Project Name - Chevron - Bernhardt J31-33D**

**Project Number - [none]**

Attached are your analytical results for Chevron - Bernhardt J31-33D received by Origins Laboratory, Inc. March 07, 2024. This project is associated with Origins project number Y403199-01.

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, Inc.  
303.433.1322  
o-squad@oelabinc.com



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Bernhardt J31-33D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y403199-01	Soil	March 7, 2024 10:00	03/07/2024 12:42
FLR01@4	Y403199-02	Soil	March 7, 2024 10:05	03/07/2024 12:42
BKG01@5	Y403199-06	Soil	March 7, 2024 10:25	03/07/2024 12:42

Chain of Custody Modification Request

On 4/12/2024, Tim Krupa from Entrada contacted Jordan Bynon via email regarding Y403199 requesting that Barium, Lead, and Selenium be added to BKG01@5. Requested modifications to the chain of custody were made by Jordan Bynon on 4/12/2024.

Origins Laboratory, Inc.



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

Chelsea Veryer  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y403199

Client: Entrada

Client Project ID: Chevron Bernhardt J31

Checklist Completed by: SA

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

Date/time completed: 3/2/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 12 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Someday</u>
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 NaAsO <sub>2</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 in the additional comments (above) and the case narrative.

Reviewed by: JTB (Project Manager)

Date/Time Reviewed: 3/8/24

Origins Laboratory, Inc.



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

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**WH01@6**  
**3/7/2024 10:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403199-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.453		0.0992	mg/L	1	B4C1213	03/12/2024	03/13/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4C1202	03/12/2024	03/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C0826	03/08/2024	03/08/2024	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.1 %		70-130			"	"	"	
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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

WH01@6  
 3/7/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y403199-01 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.4 %		70-130			B4C08 26	03/08/2024	03/08/2024	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.71		0.499	meq/L	10	[CALC]	03/12/2024	03/14/2024	
Magnesium	1.69		0.823	"	"	"	"	03/14/2024	
Sodium	1.62		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4C1122	03/11/2024	03/12/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**WH01@6**  
**3/7/2024 10:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403199-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4C1122	03/11/2024	03/12/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	92.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.7 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.40			pH Units	1	B4C1226	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	1.24		0.0100	SAR	1	B4C1220	03/12/2024	03/14/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.515		0.00500	mmhos/cm	1	B4C1226	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**WH01@6**  
**3/7/2024 10:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403199-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	8.22	0.259	mg/kg	10	B4C0754	03/07/2024	03/27/2024
Barium	149	8.93	"	"	"	"	"
Cadmium	0.243	0.0893	"	"	"	"	"
Copper	14.1	8.93	"	"	"	"	"
Lead	13.4	0.893	"	"	"	"	"
Nickel	16.2	0.893	"	"	"	"	"
Selenium	0.308	0.232	"	"	"	"	"
Silver	ND	0.0893	"	"	"	"	"
Zinc	56.4	33.1	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L742557	03/07/2024	04/05/2024
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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

FLR01@4  
 3/7/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y403199-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.476		0.101	mg/L	1	B4C1213	03/12/2024	03/13/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4C1202	03/12/2024	03/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C0826	03/08/2024	03/08/2024	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %		70-130			"	"	"	
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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

FLR01@4  
 3/7/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y403199-02 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.5 %		70-130			B4C08 26	03/08/2024	03/08/2024	
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.72		0.499	meq/L	10	[CALC]	03/12/2024	03/14/2024	
Magnesium	2.28		0.823	"	"	"	"	03/14/2024	
Sodium	1.46		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4C1122	03/11/2024	03/12/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

FLR01@4  
 3/7/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y403199-02 (Soil)

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4C1122	03/11/2024	03/12/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	92.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.0 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.37			pH Units	1	B4C1226	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	0.926		0.0100	SAR	1	B4C1220	03/12/2024	03/14/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.656		0.00500	mmhos/cm	1	B4C1226	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

FLR01@4

3/7/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y403199-02 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	7.84	0.257	mg/kg	10	B4C0754	03/07/2024	03/27/2024
Barium	155	8.87	"	"	"	"	"
Cadmium	0.275	0.0887	"	"	"	"	"
Copper	14.7	8.87	"	"	"	"	"
Lead	64.9	0.887	"	"	"	"	"
Nickel	16.3	0.887	"	"	"	"	"
Selenium	ND	0.231	"	"	"	"	"
Silver	ND	0.0887	"	"	"	"	"
Zinc	56.0	32.8	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.247	0.508	mg/Kg	1	L742557	03/07/2024	04/05/2024
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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**BKG01@5**

**3/7/2024 10:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403199-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.482		0.101	mg/L	1	B4C1213	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	11.3		0.499	meq/L	10	[CALC]	03/12/2024	03/14/2024	
Magnesium	15.1		0.823	"	"	"	"	03/14/2024	
Sodium	9.54		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.15			pH Units	1	B4C1226	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	2.63		0.0100	SAR	1	B4C1220	03/12/2024	03/14/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.28		0.00500	mmhos/cm	1	B4C1226	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	7.48		0.257	mg/kg	10	B4C0754	03/07/2024	03/27/2024	
Barium	206		8.86	"	"	"	"	"	
Lead	10.7		0.886	"	"	"	"	"	
Selenium	0.423		0.230	"	"	"	"	"	

Origins Laboratory, Inc.



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

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C0826 - EPA 5030 (soil)**

**Blank (B4C0826-BLK1)**

Prepared: 03/08/2024 Analyzed: 03/08/2024

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	99.2		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.9		70-130			

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 Grand Junction CO 81501

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C0826 - EPA 5030 (soil)**

**LCS (B4C0826-BS1)**

Prepared: 03/08/2024 Analyzed: 03/08/2024

1,2,4-Trimethylbenzene	0.0959	0.00200	mg/kg	0.100		95.9	70-130			
1,3,5-Trimethylbenzene	0.0962	0.00200	"	0.100		96.2	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0982	0.00200	"	0.100		98.2	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0976	0.00200	"	0.100		97.6	70-130			
o-Xylene	0.0922	0.00200	"	0.100		92.2	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

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 Grand Junction CO 81501

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C0826 - EPA 5030 (soil)

Matrix Spike (B4C0826-MS1)	Source: Y403187-01			Prepared: 03/08/2024 Analyzed: 03/08/2024						
1,2,4-Trimethylbenzene	0.0803	0.00200	mg/kg	0.100	ND	80.3	70-130			
1,3,5-Trimethylbenzene	0.0804	0.00200	"	0.100	ND	80.4	70-130			
Benzene	0.0864	0.00200	"	0.100	ND	86.4	70-130			
Ethylbenzene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
Naphthalene	0.0903	0.00380	"	0.100	ND	90.3	70-130			
Toluene	0.0806	0.00200	"	0.100	ND	80.6	70-130			
o-Xylene	0.0813	0.00200	"	0.100	ND	81.3	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C0826 - EPA 5030 (soil)

Matrix Spike Dup (B4C0826-MSD1)	Source: Y403187-01			Prepared: 03/08/2024 Analyzed: 03/08/2024						
1,2,4-Trimethylbenzene	0.0753	0.00200	mg/kg	0.100	ND	75.3	70-130	6.45	20	
1,3,5-Trimethylbenzene	0.0759	0.00200	"	0.100	ND	75.9	70-130	5.76	20	
Benzene	0.0868	0.00200	"	0.100	ND	86.8	70-130	0.393	20	
Ethylbenzene	0.0833	0.00200	"	0.100	ND	83.3	70-130	3.38	20	
Naphthalene	0.0897	0.00380	"	0.100	ND	89.7	70-130	0.711	20	
Toluene	0.0814	0.00200	"	0.100	ND	81.4	70-130	0.987	20	
o-Xylene	0.0787	0.00200	"	0.100	ND	78.7	70-130	3.22	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.7	70-130	4.29	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C1202 - EPA 3550B</b>										
<b>Blank (B4C1202-BLK1)</b>										
					Prepared: 03/12/2024 Analyzed: 03/14/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		94.8	50-150			

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 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1202 - EPA 3550B**

**LCS (B4C1202-BS1)**

Prepared: 03/12/2024 Analyzed: 03/14/2024

Diesel (C10-C28)	877	50.0	mg/kg	1000		87.7	70-130			
Residual Range Organics (C28-C40)	972	200	"	1000		97.2	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.0	50-150			

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Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1202 - EPA 3550B**

<b>Matrix Spike (B4C1202-MS1)</b>	<b>Source: Y403187-01</b>			<b>Prepared: 03/12/2024 Analyzed: 03/14/2024</b>						
Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	70-130			
Residual Range Organics (C28-C40)	994	200	"	1000	ND	99.4	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C1202 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4C1202-MSD1)</b>					<b>Source: Y403187-01</b>					Prepared: 03/12/2024 Analyzed: 03/14/2024
Diesel (C10-C28)	834	50.0	mg/kg	1000	ND	83.4	70-130	2.66	35	
Residual Range Organics (C28-C40)	987	200	"	1000	ND	98.7	70-130	0.709	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C0754 - EPA 3050B**

**Blank (B4C0754-BLK1)**

Prepared: 03/07/2024 Analyzed: 03/27/2024

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 (B4C0754-BS1)**

Prepared: 03/07/2024 Analyzed: 03/27/2024

Arsenic	4.39	0.290	mg/kg	5.00		87.8	80-120			
Barium	549	10.0	"	500		110	80-120			
Cadmium	5.93	0.100	"	5.00		119	80-120			
Copper	44.0	10.0	"	50.0		88.0	80-120			
Lead	5.34	1.00	"	5.00		107	80-120			
Nickel	5.78	1.00	"	5.00		116	80-120			
Selenium	10.5	0.260	"	9.50		111	80-120			
Silver	5.71	0.100	"	5.00		114	80-120			
Zinc	57.3	37.0	"	50.0		115	80-120			

**Matrix Spike (B4C0754-MS1)**

Source: Y403190-01

Prepared: 03/07/2024 Analyzed: 03/27/2024

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Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C0754 - EPA 3050B**

<b>Matrix Spike (B4C0754-MS1)</b>		<b>Source: Y403190-01</b>			Prepared: 03/07/2024 Analyzed: 03/27/2024					
Arsenic	13.3	0.280	mg/kg	4.83	7.69	117	75-125			
Barium	773	9.67	"	483	211	116	75-125			
Cadmium	6.11	0.0967	"	4.83	0.302	120	75-125			
Copper	73.0	9.67	"	48.3	15.3	119	75-125			
Lead	23.5	0.967	"	4.83	16.5	144	75-125			QM-07
Nickel	22.6	0.967	"	4.83	18.2	91.2	75-125			
Selenium	11.0	0.251	"	9.18	0.376	116	75-125			QM-07
Silver	5.54	0.0967	"	4.83	0.0407	114	75-125			
Zinc	111	35.8	"	48.3	57.8	110	75-125			

<b>Matrix Spike Dup (B4C0754-MSD1)</b>		<b>Source: Y403190-01</b>			Prepared: 03/07/2024 Analyzed: 03/27/2024					
Arsenic	11.8	0.267	mg/kg	4.61	7.69	88.5	75-125	12.4	20	
Barium	666	9.22	"	461	211	98.8	75-125	14.8	20	
Cadmium	5.30	0.0922	"	4.61	0.302	108	75-125	14.3	20	
Copper	63.9	9.22	"	46.1	15.3	105	75-125	13.4	20	
Lead	21.0	0.922	"	4.61	16.5	96.4	75-125	11.4	20	
Nickel	20.2	0.922	"	4.61	18.2	43.1	75-125	11.3	20	QM-07
Selenium	9.99	0.240	"	8.76	0.376	110	75-125	9.67	20	QM-07
Silver	4.76	0.0922	"	4.61	0.0407	102	75-125	15.2	20	
Zinc	100	34.1	"	46.1	57.8	91.5	75-125	10.6	20	

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Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1122 - EPA 3580**

**Blank (B4C1122-BLK1)**

Prepared: 03/11/2024 Analyzed: 03/12/2024

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	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	190		"	200		93.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			

**LCS (B4C1122-BS1)**

Prepared: 03/11/2024 Analyzed: 03/12/2024

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		94.1	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.3	70-130			
Acenaphthene	0.188	0.020	"	0.200		93.9	70-130			
Anthracene	0.187	0.020	"	0.200		93.3	70-130			

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Chelsea Veryer  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1122 - EPA 3580**

**LCS (B4C1122-BS1)**

Prepared: 03/11/2024 Analyzed: 03/12/2024

Benzo (a) anthracene	0.199	0.005	mg/kg	0.200		99.3	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200		95.7	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200		92.3	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200		94.6	70-130			
Benzo (k) fluoranthene	0.174	0.020	"	0.200		87.1	70-130			
Chrysene	0.185	0.020	"	0.200		92.4	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.4	70-130			
Fluoranthene	0.189	0.020	"	0.200		94.7	70-130			
Fluorene	0.189	0.020	"	0.200		94.3	70-130			
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200		94.2	70-130			
Naphthalene	0.188	0.002	"	0.200		93.9	70-130			
Phenanthrene	0.180	0.020	"	0.200		90.2	70-130			
Pyrene	0.173	0.020	"	0.200		86.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	190		"	200		92.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

**Matrix Spike (B4C1122-MS1)**

**Source: Y403132-01**

Prepared: 03/11/2024 Analyzed: 03/12/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.4	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200	ND	94.1	70-130			
Acenaphthene	0.188	0.020	"	0.200	ND	94.0	70-130			
Anthracene	0.190	0.020	"	0.200	ND	94.8	70-130			
Benzo (a) anthracene	0.198	0.005	"	0.200	0.002	98.0	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200	0.002	93.9	70-130			
Benzo (b) fluoranthene	0.180	0.020	"	0.200	0.003	88.8	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.002	95.0	70-130			

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Chelsea Veryer  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1122 - EPA 3580**

<b>Matrix Spike (B4C1122-MS1)</b>		<b>Source: Y403132-01</b>			Prepared: 03/11/2024 Analyzed: 03/12/2024					
Benzo (k) fluoranthene	0.173	0.020	mg/kg	0.200	0.001	85.8	70-130			
Chrysene	0.186	0.020	"	0.200	0.004	91.0	70-130			
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	0.001	93.2	70-130			
Fluoranthene	0.199	0.020	"	0.200	0.004	97.6	70-130			
Fluorene	0.188	0.020	"	0.200	ND	94.1	70-130			
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	0.002	93.0	70-130			
Naphthalene	0.188	0.002	"	0.200	ND	93.8	70-130			
Phenanthrene	0.182	0.020	"	0.200	0.001	90.3	70-130			
Pyrene	0.177	0.020	"	0.200	0.003	87.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	180		"	200		92.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.3	60-130			

<b>Matrix Spike Dup (B4C1122-MSD1)</b>		<b>Source: Y403132-01</b>			Prepared: 03/11/2024 Analyzed: 03/12/2024					
1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.3	70-130	2.33	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	91.9	70-130	2.45	20	
Acenaphthene	0.182	0.020	"	0.200	ND	91.0	70-130	3.30	20	
Anthracene	0.180	0.020	"	0.200	ND	90.0	70-130	5.26	20	
Benzo (a) anthracene	0.185	0.005	"	0.200	0.002	91.6	70-130	6.76	20	
Benzo (a) pyrene	0.181	0.020	"	0.200	0.002	89.3	70-130	4.94	20	
Benzo (b) fluoranthene	0.178	0.020	"	0.200	0.003	87.5	70-130	1.43	20	
Benzo (g,h,i) perylene	0.186	0.020	"	0.200	0.002	91.8	70-130	3.36	20	
Benzo (k) fluoranthene	0.166	0.020	"	0.200	0.001	82.6	70-130	3.79	20	
Chrysene	0.189	0.020	"	0.200	0.004	92.9	70-130	2.04	20	
Dibenz (a,h) anthracene	0.181	0.020	"	0.200	0.001	89.7	70-130	3.84	20	
Fluoranthene	0.193	0.020	"	0.200	0.004	94.6	70-130	3.12	20	

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Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C1122 - EPA 3580

Matrix Spike Dup (B4C1122-MSD1)	Source: Y403132-01			Prepared: 03/11/2024 Analyzed: 03/12/2024						
Fluorene	0.181	0.020	mg/kg	0.200	ND	90.4	70-130	3.97	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	0.002	90.0	70-130	3.23	20	
Naphthalene	0.182	0.002	"	0.200	ND	91.1	70-130	2.85	20	
Phenanthrene	0.177	0.020	"	0.200	0.001	87.9	70-130	2.72	20	
Pyrene	0.169	0.020	"	0.200	0.003	83.2	70-130	4.71	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	180		"	200		91.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.4	60-130			

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

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Bernhardt J31-33D

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1213 - DTPA Sorbitol Preparation**

**Blank (B4C1213-BLK1)**

Prepared: 03/12/2024 Analyzed: 03/13/2024

Boron ND 0.100 mg/L

**Duplicate (B4C1213-DUP1)**

**Source: Y403169-02**

Prepared: 03/12/2024 Analyzed: 03/13/2024

Boron 1.61 0.0992 mg/L 1.67 3.12 50

**Batch B4C1220 - Saturated Paste Metals**

**Blank (B4C1220-BLK1)**

Prepared: 03/12/2024 Analyzed: 03/14/2024

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 (B4C1220-DUP1)**

**Source: Y403188-01**

Prepared: 03/12/2024 Analyzed: 03/14/2024

Calcium PPM 156 10.0 mg/L 63.1 84.9 50 QR-DUP

SAR ND 0.0100 SAR 2.87 200

Magnesium PPM 153 10.0 mg/L 74.9 68.4 50 QR-DUP

Sodium PPM 174 10.0 " 142 20.1 50

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 Project: Chevron - Bernhardt J31-33D

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C1226 - Saturated Paste pH/EC</b>										
<b>Blank (B4C1226-BLK1)</b>					Prepared: 03/12/2024 Analyzed: 03/13/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4C1226-DUP1)</b>					<b>Source: Y403188-01</b> Prepared: 03/12/2024 Analyzed: 03/13/2024					
pH	8.23		pH Units		8.34			1.33	25	
Specific Conductance (EC)	2.00	0.00500	mmhos/cm		1.37			37.3	25	QR-DUP

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Chelsea Veryter  
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 Project: Chevron - Bernhardt J31-33D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L742557 -</b>										
<b>DUP (L 89518-DUP)</b>		<b>Source: 89518</b>			Prepared: Analyzed: 04/05/2024					
Chromium, Hexavalent	ND	0.504	mg/Kg		<0.504		-	0.7	20	
<b>MS (L 89518-MS)</b>		<b>Source: 89518</b>			Prepared: Analyzed: 04/05/2024					
Chromium, Hexavalent	35.9	2.54	mg/Kg	40.6	< 0.244	88	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 04/05/2024								
Chromium, Hexavalent	7.1	0.5	mg/Kg	8		89	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 04/05/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryter  
Project Number: [none]  
Project: Chevron - Bernhardt J31-33D

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### Notes and Definitions

U Sample is Non-Detect.

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 Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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