

August 10, 2022

Absaroka

Kenneth Rogowski

112 High St.

Buffalo

WY

82834

Project Name - Oxbow S29

Project Number - D90.CO.0504.21

Attached are your analytical results for Oxbow S29 received by Origins Laboratory, Inc. July 28, 2022. This project is associated with Origins project number Y207601-01.

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



Absaroka
112 High St.
Buffalo

WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
O 1@18"	Y207601-01	Soil	July 26, 2022 10:10	07/28/2022 10:50
O 3@15"	Y207601-02	Soil	July 26, 2022 10:22	07/28/2022 10:50
O 7@24"	Y207601-03	Soil	July 26, 2022 10:22	07/28/2022 10:50
O 8@20"	Y207601-04	Soil	July 26, 2022 10:52	07/28/2022 10:50
O 11@20"	Y207601-05	Soil	July 26, 2022 11:02	07/28/2022 10:50
O 16@21"	Y207601-06	Soil	July 26, 2022 11:23	07/28/2022 10:50
O 20@3"	Y207601-07	Soil	July 26, 2022 11:32	07/28/2022 10:50
O 23@0"	Y207601-08	Soil	July 26, 2022 11:41	07/28/2022 10:50
O 25@3"	Y207601-09	Soil	July 26, 2022 11:51	07/28/2022 10:50

Origins Laboratory, Inc.



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Absaroka
112 High St.
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WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

ORIGINS

LABORATORY, INC

www.originslaboratory.com

1097207601

page 1 of 1

Client:	Absaroka	Project Manager:	Ken Rogowski
Address:	112 High St., Buffalo, WY	Project Name:	Oxbow S29
Telephone Number:	970.222.7106	Project Number:	D90.CO.0504.21
Email Address:	Ken Rogowski	Samples Collected By:	Ken Rogowski

Sample ID Description	Date Sampled	Time Sampled	# of Containers				Preservative				Matrix			Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summation	Other					
O 1 @ 18"	7/26/22	10:10	2					X			X			X	1
O 3 @ 15"	7/26/22	10:22	2					X			X				2
O 7 @ 24"	7/26/22	10:22	2					X			X				3
O 8 @ 20"	7/26/22	10:52	2					X			X				4
O 11 @ 20"	7/26/22	11:02	2					X			X				5
O 16 @ 21"	7/26/22	11:23	2					X			X				6
O 20 @ 3"	7/26/22	11:32	2					X			X				7
O 23 @ 0"	7/26/22	11:41	2					X			X				8
O 25 @ 3"	7/26/22	11:51	2					X			X				9
															10
Relinquished By:	Date:	Time:	Received By:				Time:				Date:			Turnaround Time:	
215	7/28/22	9:57	DE				7-28-22				10:50			Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	

Origins Laboratory, Inc.

J. Bynon

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112 High St.
Buffalo

WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y207601

Client: Absaroka

Client Project ID: Oxbow S29

Checklist Completed by: MS

Date/time completed: 7/28/22

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

Airbill #: NA

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

Cooler Number/Temperature: 15.8 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 7/28/22

Origins Laboratory, Inc.

[Signature]

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 1@18"

7/26/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.124	0.100	mg/L	1	B2G2912	07/29/2022	08/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G2902	07/29/2022	07/29/2022	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	104 %	70-130	"	"	"
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7/26/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	87.3 %	70-130	B2G29 02	07/29/2022	07/29/2022
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.967	0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.74	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

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Project: Oxbow S29

O 1@18"

7/26/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.38	pH Units	1	B2G2909	07/29/2022	07/30/2022
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SAR by 20B Saturated Paste

SAR	2.09	SAR	1	B2G2906	07/29/2022	08/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.342	0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022
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Table 915 metals by EPA 6020B

Arsenic	2.00	0.0902	mg/kg	5	B2H0222	08/02/2022	08/04/2022
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Project: Oxbow S29

O 1@18"

7/26/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-01 (Soil)

Table 915 metals by EPA 6020B

Barium	200	9.02	mg/kg	5	B2H0222	08/02/2022	08/04/2022	
Cadmium	0.121	0.0902	"	"	"	"	"	
Copper	27.1	9.02	"	"	"	"	"	
Lead	7.19	0.902	"	"	"	"	"	
Nickel	14.8	0.902	"	"	"	"	"	
Selenium	0.0956	0.0902	"	"	"	"	"	
Silver	ND	0.0902	"	"	"	"	"	U
Zinc	ND	90.2	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L629589	07/26/2022	08/02/2022
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112 High St.
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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 3@15"

7/26/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B2G2912	07/29/2022	08/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.0 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G2902	07/29/2022	07/29/2022	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	104 %	70-130			"	"	"
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Project Number: D90.CO.0504.21
Project: Oxbow S29

O 3@15"

7/26/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	87.2 %	70-130	B2G29 02	07/29/2022	07/29/2022
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.70	0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022
Magnesium	1.59	0.823	"	"	"	"	"
Sodium	0.563	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000885	0.000364	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

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O 3@15"

7/26/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-02 (Soil)

PAH by 8270D SIM

Fluorene	0.000662	0.000286	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.90	pH Units	1	B2G2909	07/29/2022	07/30/2022
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SAR by 20B Saturated Paste

SAR	0.346	SAR	1	B2G2906	07/29/2022	08/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.715	0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022
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Table 915 metals by EPA 6020B

Arsenic	2.73	0.0968	mg/kg	5	B2H0222	08/02/2022	08/04/2022
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Project Number: D90.CO.0504.21
Project: Oxbow S29

O 3@15"

7/26/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-02 (Soil)

Table 915 metals by EPA 6020B

Barium	133	9.68	mg/kg	5	B2H0222	08/02/2022	08/04/2022	
Cadmium	0.132	0.0968	"	"	"	"	"	
Copper	9.94	9.68	"	"	"	"	"	
Lead	4.55	0.968	"	"	"	"	"	
Nickel	10.9	0.968	"	"	"	"	"	
Selenium	ND	0.0968	"	"	"	"	"	U
Silver	ND	0.0968	"	"	"	"	"	U
Zinc	ND	96.8	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L629589	07/26/2022	08/02/2022
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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 7@24"

7/26/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B2G2912	07/29/2022	08/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G2902	07/29/2022	07/29/2022	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	105 %	70-130			"	"	"	
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Project Number: D90.CO.0504.21
Project: Oxbow S29

O 7@24"

7/26/2022 10:22:00AM

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

Origins Laboratory, Inc.
Y207601-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	87.5 %	70-130	B2G29 02	07/29/2022	07/29/2022
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.24	0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022
Magnesium	1.38	0.823	"	"	"	"	"
Sodium	0.735	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00106	0.000364	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
2-Methylnaphthalene	0.000967	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00131	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 7@24"

7/26/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.89	pH Units	1	B2G2909	07/29/2022	07/30/2022
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SAR by 20B Saturated Paste

SAR	0.484	SAR	1	B2G2906	07/29/2022	08/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.631	0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022
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Table 915 metals by EPA 6020B

Arsenic	6.45	0.0978	mg/kg	5	B2H0222	08/02/2022	08/04/2022
Barium	123	9.78	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 7@24"

7/26/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.187	0.0978	mg/kg	5	B2H0222	08/02/2022	08/04/2022	
Copper	15.0	9.78	"	"	"	"	"	
Lead	11.9	0.978	"	"	"	"	"	
Nickel	13.2	0.978	"	"	"	"	"	
Selenium	ND	0.0978	"	"	"	"	"	U
Silver	ND	0.0978	"	"	"	"	"	U
Zinc	ND	97.8	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L629589	07/26/2022	08/02/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 8@20"

7/26/2022 10:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2G2912	07/29/2022	08/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	105 %	50-150		"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G2902	07/29/2022	07/29/2022	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	106 %	70-130		"	"	"
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 8@20"

7/26/2022 10:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	85.3 %	70-130	B2G29 02	07/29/2022	07/29/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.934	0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.883	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000922	0.000364	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
2-Methylnaphthalene	0.000806	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0016	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0017	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 8@20"

7/26/2022 10:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00102	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.35	pH Units	1	B2G2909	07/29/2022	07/30/2022
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SAR by 20B Saturated Paste

SAR	1.09	SAR	1	B2G2906	07/29/2022	08/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.218	0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022
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Table 915 metals by EPA 6020B

Arsenic	2.59	0.0731	mg/kg	5	B2H0222	08/02/2022	08/04/2022
Barium	167	7.31	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 8@20"

7/26/2022 10:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.132		0.0731	mg/kg	5	B2H0222	08/02/2022	08/04/2022	
Copper	14.3		7.31	"	"	"	"	"	
Lead	5.53		0.731	"	"	"	"	"	
Nickel	11.5		0.731	"	"	"	"	"	
Selenium	0.0760		0.0731	"	"	"	"	"	
Silver	ND		0.0731	"	"	"	"	"	U
Zinc	ND		73.1	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L629589	07/26/2022	08/02/2022	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 11@20"

7/26/2022 11:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2G2912	07/29/2022	08/01/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	109	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	U

Surrogate: o-Terphenyl	89.8 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00958	0.00200	mg/kg	1	B2G2902	07/29/2022	08/02/2022
1,3,5-Trimethylbenzene	0.00268	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	U
Xylenes, total	0.00236	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	1.08	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 11@20"

7/26/2022 11:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	B2G29 02	07/29/2022	08/02/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.862	0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.639	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0113	0.000364	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
2-Methylnaphthalene	0.00993	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.00121	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000542	0.000334	0.00067	"	"	"	"	" J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00258	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00625	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 11@20"

7/26/2022 11:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-05 (Soil)

PAH by 8270D SIM

Naphthalene	0.00174	0.000484	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022	
Pyrene	0.00169	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B2G2909	07/29/2022	07/30/2022	
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SAR by 20B Saturated Paste

SAR	0.831			SAR	1	B2G2906	07/29/2022	08/01/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.197		0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.60		0.0868	mg/kg	5	B2H0222	08/02/2022	08/04/2022	
Barium	159		8.68	"	"	"	"	"	
Cadmium	0.124		0.0868	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 11@20"

7/26/2022 11:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-05 (Soil)

Table 915 metals by EPA 6020B

Copper	11.8	8.68	mg/kg	5	B2H0222	08/02/2022	08/04/2022	
Lead	6.08	0.868	"	"	"	"	"	
Nickel	9.14	0.868	"	"	"	"	"	
Selenium	0.0894	0.0868	"	"	"	"	"	
Silver	ND	0.0868	"	"	"	"	"	U
Zinc	ND	86.8	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L629589	07/26/2022	08/02/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 16@21"

7/26/2022 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2G2912	07/29/2022	08/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G2902	07/29/2022	08/02/2022	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	114 %	70-130	"	"	"
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 16@21"

7/26/2022 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %	70-130	B2G29 02	07/29/2022	08/02/2022
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.71	0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L629607	08/01/2022	08/04/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	ND	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 16@21"

7/26/2022 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L629607	08/01/2022	08/04/2022
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	65.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	63.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.12	pH Units	1	B2G2909	07/29/2022	07/30/2022
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SAR by 20B Saturated Paste

SAR	0.233	SAR	1	B2G2906	07/29/2022	08/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.250	0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022
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Table 915 metals by EPA 6020B

Arsenic	3.70	0.0799	mg/kg	5	B2H0221	08/02/2022	08/04/2022
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Origins Laboratory, Inc.



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.

Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 16@21"

7/26/2022 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-06 (Soil)

Table 915 metals by EPA 6020B

Barium	214	7.99	mg/kg	5	B2H0221	08/02/2022	08/04/2022	
Cadmium	0.177	0.0799	"	"	"	"	"	
Copper	15.5	7.99	"	"	"	"	"	
Lead	8.20	0.799	"	"	"	"	"	
Nickel	12.2	0.799	"	"	"	"	"	
Selenium	0.144	0.0799	"	"	"	"	"	
Silver	ND	0.0799	"	"	"	"	"	U
Zinc	ND	79.9	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L629589	07/26/2022	08/02/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 20@3"

7/26/2022 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2G2912	07/29/2022	08/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	31.2	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G2902	07/29/2022	08/02/2022	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	113 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 20@3"

7/26/2022 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	107 %	70-130	B2G29 02	07/29/2022	08/02/2022
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.888	0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.000826	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 20@3"

7/26/2022 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-07 (Soil)

PAH by 8270D SIM

Fluorene	0.00129	0.000286	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.000653	0.000643	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	61.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B2G2909	07/29/2022	07/30/2022	
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SAR by 20B Saturated Paste

SAR	0.408			SAR	1	B2G2906	07/29/2022	08/01/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.138		0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.71		0.0726	mg/kg	5	B2H0221	08/02/2022	08/04/2022	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 20@3"

7/26/2022 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-07 (Soil)

Table 915 metals by EPA 6020B

Barium	76.0	7.26	mg/kg	5	B2H0221	08/02/2022	08/04/2022	
Cadmium	0.120	0.0726	"	"	"	"	"	
Copper	12.3	7.26	"	"	"	"	"	
Lead	8.34	0.726	"	"	"	"	"	
Nickel	9.63	0.726	"	"	"	"	"	
Selenium	0.121	0.0726	"	"	"	"	"	
Silver	ND	0.0726	"	"	"	"	"	U
Zinc	ND	72.6	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L629589	07/26/2022	08/02/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 23@0"

7/26/2022 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2G2912	07/29/2022	08/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %	50-150		"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G2902	07/29/2022	08/02/2022	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	115 %	70-130		"	"	"
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 23@0"

7/26/2022 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %	70-130	B2G29 02	07/29/2022	08/02/2022
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.06	0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00109	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 23@0"

7/26/2022 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-08 (Soil)

PAH by 8270D SIM

Fluorene	0.000293	0.000286	0.00067	mg/Kg	1	L629607	08/01/2022	08/04/2022	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.20	pH Units	1	B2G2909	07/29/2022	07/30/2022
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SAR by 20B Saturated Paste

SAR	0.231	SAR	1	B2G2906	07/29/2022	08/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.150	0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022
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Table 915 metals by EPA 6020B

Arsenic	ND	0.0765	mg/kg	5	B2H0221	08/02/2022	08/04/2022	U
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 23@0"

7/26/2022 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-08 (Soil)

Table 915 metals by EPA 6020B

Barium	ND	7.65	mg/kg	5	B2H0221	08/02/2022	08/04/2022	U
Cadmium	ND	0.0765	"	"	"	"	"	U
Copper	ND	7.65	"	"	"	"	"	U
Lead	ND	0.765	"	"	"	"	"	U
Nickel	ND	0.765	"	"	"	"	"	U
Selenium	ND	0.0765	"	"	"	"	"	U
Silver	ND	0.0765	"	"	"	"	"	U
Zinc	ND	76.5	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L629589	07/26/2022	08/02/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 25@3"

7/26/2022 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.158	0.0995	mg/L	1	B2G2912	07/29/2022	08/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2G2901	07/29/2022	08/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G2902	07/29/2022	08/02/2022	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	113 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 25@3"

7/26/2022 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B2G29 02	07/29/2022	08/02/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.82		0.499	meq/L	10	[CALC]	07/29/2022	08/01/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L629768	08/02/2022	08/04/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 25@3"

7/26/2022 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y207601-09 (Soil)

PAH by 8270D-SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L629768	08/02/2022	08/04/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.06	pH Units	1	B2G2909	07/29/2022	07/30/2022
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SAR by 20B Saturated Paste

SAR	0.134	SAR	1	B2G2906	07/29/2022	08/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.299	0.00500	mmhos/cm	1	B2G2909	07/29/2022	07/30/2022
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Table 915 metals by EPA 6020B

Arsenic	2.71	0.0948	mg/kg	5	B2H0221	08/02/2022	08/04/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O 25@3"

7/26/2022 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207601-09 (Soil)

Table 915 metals by EPA 6020B

Barium	139	9.48	mg/kg	5	B2H0221	08/02/2022	08/04/2022	
Cadmium	0.265	0.0948	"	"	"	"	"	
Copper	13.6	9.48	"	"	"	"	"	
Lead	5.35	0.948	"	"	"	"	"	
Nickel	10.8	0.948	"	"	"	"	"	
Selenium	0.161	0.0948	"	"	"	"	"	
Silver	0.102	0.0948	"	"	"	"	"	
Zinc	ND	94.8	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L629589	07/26/2022	08/02/2022
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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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
Batch B2G2901 - EPA 3550B										
Blank (B2G2901-BLK1)					Prepared: 07/29/2022 Analyzed: 08/02/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	30		"	24.9		123	50-150			

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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2G2901 - EPA 3550B

LCS (B2G2901-BS1)

Prepared: 07/29/2022 Analyzed: 08/02/2022

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2G2901 - EPA 3550B

Matrix Spike (B2G2901-MS1)		Source: Y207601-01			Prepared: 07/29/2022 Analyzed: 08/02/2022					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	67		"	49.8		135	50-150			

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112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2G2901 - EPA 3550B

Matrix Spike Dup (B2G2901-MSD1)		Source: Y207601-01			Prepared: 07/29/2022 Analyzed: 08/02/2022					
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130	6.71	35	
Residual Range Organics (C28-C40)	1170	200	"	1000	ND	117	70-130	0.854	35	
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

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Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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
Batch B2G2902 - EPA 5030 (soil)										
Blank (B2G2902-BLK1)					Prepared: 07/29/2022 Analyzed: 07/29/2022					
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	0.0100	"							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		98.9	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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
Batch B2G2902 - EPA 5030 (soil)										
LCS (B2G2902-BS1)					Prepared: 07/29/2022 Analyzed: 07/29/2022					
1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100		98.3	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.118	0.00200	"	0.100		118	70-130			
Ethylbenzene	0.0983	0.00200	"	0.100		98.3	70-130			
Naphthalene	0.0936	0.0100	"	0.100		93.6	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0949	0.00200	"	0.100		94.9	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2G2902 - EPA 5030 (soil)

Matrix Spike (B2G2902-MS1)		Source: Y207601-01			Prepared: 07/29/2022 Analyzed: 07/29/2022					
1,2,4-Trimethylbenzene	0.0788	0.00200	mg/kg	0.100	ND	78.8	70-130			
1,3,5-Trimethylbenzene	0.0799	0.00200	"	0.100	ND	79.9	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.0828	0.00200	"	0.100	ND	82.8	70-130			
Naphthalene	0.0736	0.0100	"	0.100	0.00180	71.8	70-130			
Toluene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
o-Xylene	0.0793	0.00200	"	0.100	ND	79.3	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	83.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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
Batch B2G2902 - EPA 5030 (soil)										
Matrix Spike Dup (B2G2902-MSD1)		Source: Y207601-01			Prepared: 07/29/2022 Analyzed: 07/29/2022					
1,2,4-Trimethylbenzene	0.0866	0.00200	mg/kg	0.100	ND	86.6	70-130	9.46	20	
1,3,5-Trimethylbenzene	0.0874	0.00200	"	0.100	ND	87.4	70-130	8.89	20	
Benzene	0.110	0.00200	"	0.100	ND	110	70-130	6.58	20	
Ethylbenzene	0.0904	0.00200	"	0.100	ND	90.4	70-130	8.80	20	
Naphthalene	0.0821	0.0100	"	0.100	0.00180	80.3	70-130	10.9	20	
Toluene	0.0925	0.00200	"	0.100	ND	92.5	70-130	8.21	20	
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130	9.35	20	
m,p-Xylene	0.182	0.00400	"	0.200	ND	91.2	70-130	8.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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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Metals by SM 3500 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 B2H0221 - Default Prep Metals

Blank (B2H0221-BLK1)

Prepared: 08/02/2022 Analyzed: 08/05/2022

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B2H0221-BS1)

Prepared: 08/02/2022 Analyzed: 08/04/2022

Arsenic	0.0511	0.000100	mg/kg	0.0500		102	80-120
Barium	5.16	0.0100	"	5.00		103	80-120
Cadmium	0.0532	0.000100	"	0.0500		106	80-120
Copper	0.539	0.0100	"	0.500		108	80-120
Lead	0.0505	0.00100	"	0.0500		101	80-120
Nickel	0.0541	0.00100	"	0.0500		108	80-120
Selenium	0.0489	0.000100	"	0.0500		97.7	80-120
Silver	0.0555	0.000100	"	0.0500		111	80-120
Zinc	0.530	0.100	"	0.500		106	80-120

Matrix Spike (B2H0221-MS1)

Source: Y207579-08

Prepared: 08/02/2022 Analyzed: 08/04/2022

Origins Laboratory, Inc.



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Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Metals by SM 3500 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 B2H0221 - Default Prep Metals

Matrix Spike (B2H0221-MS1)		Source: Y207579-08			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Arsenic	13.4	0.0163	mg/kg	8.16	7.74	69.0	75-125			QM-07
Barium	1200	1.63	"	816	273	113	75-125			
Cadmium	9.86	0.0163	"	8.16	0.347	116	75-125			
Copper	93.7	1.63	"	81.6	22.1	87.7	75-125			
Lead	20.5	0.163	"	8.16	18.8	20.1	75-125			QM-07
Nickel	17.1	0.163	"	8.16	19.3	NR	75-125			QM-07
Selenium	9.01	0.0163	"	8.16	0.255	107	75-125			
Silver	9.73	0.0163	"	8.16	0.154	117	75-125			
Zinc	103	16.3	"	81.6	78.0	31.2	75-125			QM-07

Matrix Spike Dup (B2H0221-MSD1)		Source: Y207579-08			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Arsenic	13.3	0.0197	mg/kg	9.87	7.74	56.9	75-125	0.161	20	QM-07
Barium	1360	1.97	"	987	273	111	75-125	12.8	20	
Cadmium	10.4	0.0197	"	9.87	0.347	102	75-125	5.57	20	
Copper	99.0	1.97	"	98.7	22.1	77.9	75-125	5.43	20	
Lead	20.7	0.197	"	9.87	18.8	18.6	75-125	0.910	20	QM-07
Nickel	18.0	0.197	"	9.87	19.3	NR	75-125	5.36	20	QM-07
Selenium	9.83	0.0197	"	9.87	0.255	97.0	75-125	8.65	20	
Silver	10.3	0.0197	"	9.87	0.154	103	75-125	5.41	20	
Zinc	106	19.7	"	98.7	78.0	28.5	75-125	2.51	20	QM-07

Batch B2H0222 - Default Prep Metals

Blank (B2H0222-BLK1)		Prepared: 08/02/2022 Analyzed: 08/04/2022								
Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Metals by SM 3500 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 B2H0222 - Default Prep Metals

Blank (B2H0222-BLK1)

Prepared: 08/02/2022 Analyzed: 08/04/2022

Copper	ND	0.0100	mg/kg							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B2H0222-BS1)

Prepared: 08/02/2022 Analyzed: 08/04/2022

Arsenic	0.0530	0.000100	mg/kg	0.0500		106	80-120			
Barium	5.15	0.0100	"	5.00		103	80-120			
Cadmium	0.0521	0.000100	"	0.0500		104	80-120			
Copper	0.579	0.0100	"	0.500		116	80-120			
Lead	0.0500	0.00100	"	0.0500		100	80-120			
Nickel	0.0542	0.00100	"	0.0500		108	80-120			
Selenium	0.0532	0.000100	"	0.0500		106	80-120			
Silver	0.0533	0.000100	"	0.0500		107	80-120			
Zinc	0.521	0.100	"	0.500		104	80-120			

Matrix Spike (B2H0222-MS1)

Source: Y207601-01

Prepared: 08/02/2022 Analyzed: 08/04/2022

Arsenic	8.63	0.0169	mg/kg	8.46	2.00	78.4	75-125			
Barium	1090	1.69	"	846	200	105	75-125			
Cadmium	8.75	0.0169	"	8.46	0.121	102	75-125			
Copper	96.3	1.69	"	84.6	27.1	81.8	75-125			
Lead	16.1	0.169	"	8.46	7.19	106	75-125			
Nickel	13.1	0.169	"	8.46	14.8	NR	75-125			QM-07
Selenium	8.35	0.0169	"	8.46	0.0956	97.5	75-125			
Silver	8.59	0.0169	"	8.46	0.0758	101	75-125			

Origins Laboratory, Inc.



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112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Metals by SM 3500 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H0222 - Default Prep Metals										
Matrix Spike (B2H0222-MS1)		Source: Y207601-01			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Zinc	83.9	16.9	mg/kg	84.6	58.9	29.5	75-125			QM-07
Matrix Spike Dup (B2H0222-MSD1)		Source: Y207601-01			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Arsenic	9.31	0.0164	mg/kg	8.18	2.00	89.4	75-125	7.55	20	
Barium	1050	1.64	"	818	200	104	75-125	3.71	20	
Cadmium	8.70	0.0164	"	8.18	0.121	105	75-125	0.538	20	
Copper	91.2	1.64	"	81.8	27.1	78.3	75-125	5.45	20	
Lead	16.0	0.164	"	8.18	7.19	107	75-125	1.12	20	
Nickel	13.7	0.164	"	8.18	14.8	NR	75-125	4.58	20	QM-07
Selenium	8.15	0.0164	"	8.18	0.0956	98.5	75-125	2.40	20	
Silver	8.77	0.0164	"	8.18	0.0758	106	75-125	2.13	20	
Zinc	84.4	16.4	"	81.8	58.9	31.1	75-125	0.528	20	QM-07

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Saturated Paste - 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 B2G2909 - NO PREP

Blank (B2G2909-BLK1)

Prepared: 07/29/2022 Analyzed: 07/30/2022

pH	0.00		pH Units
Specific Conductance (EC)	0.00150	0.00500	mmhos/cm

Duplicate (B2G2909-DUP1)

Source: Y207579-06

Prepared: 07/29/2022 Analyzed: 07/30/2022

Specific Conductance (EC)	0.774	0.00500	mmhos/cm	0.680	12.9	25
pH	8.36		pH Units	8.40	0.477	25

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L629607 - 3550B

MSD (L 93176-MSD-L629607)		Source: 93176			Prepared: 08/01/2022 Analyzed: 08/04/2022					
Naphthalene	0.0851	0.000484	mg/Kg	0.162	<0.000484	52.5	30-130	6.5	30	
Fluorene	0.0895	0.000286	"	0.162	<0.000286	55.2	30-130	9.8	30	
Fluoranthene	0.0984	0.000394	"	0.162	<0.000394	60.7	30-130	12.9	30	
Dibenz(a,h)anthracene	0.0933	0.000614	"	0.162	<0.000614	57.5	30-130	14.6	30	
Benzo(k)fluoranthene	0.081	0.000437	"	0.162	<0.000437	50	30-130	13.3	30	
Indeno(1,2,3-cd)pyrene	0.105	0.000627	"	0.162	<0.000627	64.8	30-130	10.8	30	
Benzo(a)pyrene	0.0996	0.000468	"	0.162	<0.000468	61.4	30-130	16	30	
Benzo(a)anthracene	0.1	0.000493	"	0.162	<0.000493	61.7	30-130	12.2	30	
Anthracene	0.0899	0.000334	"	0.162	<0.000334	55.4	30-130	13.5	30	
2-Methylnaphthalene	0.0832	0.000645	"	0.162	<0.000645	51.3	30-130	5.7	30	
Acenaphthene	0.0835	0.000304	"	0.162	<0.000304	51.5	30-130	8.2	30	
Pyrene	0.0983	0.000643	"	0.162	<0.000643	60.6	30-130	13.9	30	
Chrysene	0.0953	0.000624	"	0.162	<0.000624	58.8	30-130	11.5	30	
1-Methylnaphthalene	0.0839	0.000364	"	0.162	<0.000364	51.7	30-130	6.7	30	
Benzo(b)fluoranthene	0.0877	0.000585	"	0.162	<0.000585	54.1	30-130	9.2	30	
Surrogate: Nitrobenzene-d5	53.5		"	0.325	177	53.5	29-110			
Surrogate: 2-Fluorobiphenyl	56.3		"	0.325	187	56.3	33-115			
Surrogate: 4-Terphenyl-d14	67		"	0.325	236	67	33-122			

MS (L 93176-MS-L629607)		Source: 93176			Prepared: 08/01/2022 Analyzed: 08/04/2022					
Anthracene	0.103	0.000334	mg/Kg	0.167	<0.000334	61.6	30-130			
Fluoranthene	0.112	0.000394	"	0.167	<0.000394	67	30-130			
Dibenz(a,h)anthracene	0.108	0.000614	"	0.167	<0.000614	64.6	30-130			
Chrysene	0.107	0.000624	"	0.167	<0.000624	64	30-130			
Benzo(k)fluoranthene	0.0926	0.000437	"	0.167	<0.000437	55.4	30-130			
Benzo(b)fluoranthene	0.0962	0.000585	"	0.167	<0.000585	57.6	30-130			
Indeno(1,2,3-cd)pyrene	0.117	0.000627	"	0.167	<0.000627	70	30-130			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L629607 - 3550B

MS (L 93176-MS-L629607)		Source: 93176			Prepared: 08/01/2022 Analyzed: 08/04/2022					
Benzo(a)anthracene	0.113	0.000493	mg/Kg	0.167	<0.000493	67.6	30-130			
Naphthalene	0.0909	0.000484	"	0.167	<0.000484	54.4	30-130			
Acenaphthene	0.0907	0.000304	"	0.167	<0.000304	54.3	30-130			
2-Methylnaphthalene	0.0881	0.000645	"	0.167	<0.000645	52.7	30-130			
1-Methylnaphthalene	0.0898	0.000364	"	0.167	<0.000364	53.7	30-130			
Benzo(a)pyrene	0.117	0.000468	"	0.167	<0.000468	70	30-130			
Pyrene	0.113	0.000643	"	0.167	<0.000643	67.6	30-130			
Fluorene	0.0988	0.000286	"	0.167	<0.000286	59.1	30-130			
Surrogate: 4-Terphenyl-d14	78		"	0.333	236	78	33-122			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333	187	60.6	33-115			
Surrogate: Nitrobenzene-d5	57.3		"	0.333	177	57.3	29-110			

LCS (LCS-L629607)		Prepared: 08/01/2022 Analyzed: 08/04/2022								
Benzo(b)fluoranthene	0.102	0.000585	mg/Kg	0.167		61	30-130			
2-Methylnaphthalene	0.093	0.000645	"	0.167		55.6	30-130			
Pyrene	0.106	0.000643	"	0.167		63.4	30-130			
Indeno(1,2,3-cd)pyrene	0.116	0.000627	"	0.167		69.4	30-130			
Fluoranthene	0.108	0.000394	"	0.167		64.6	30-130			
Dibenz(a,h)anthracene	0.103	0.000614	"	0.167		61.6	30-130			
Benzo(k)fluoranthene	0.0959	0.000437	"	0.167		57.4	30-130			
Benzo(a)pyrene	0.105	0.000468	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.104	0.000493	"	0.167		62.2	30-130			
Anthracene	0.101	0.000334	"	0.167		60.4	30-130			
Acenaphthene	0.0924	0.000304	"	0.167		55.3	30-130			
1-Methylnaphthalene	0.0934	0.000364	"	0.167		55.9	30-130			
Fluorene	0.0997	0.000286	"	0.167		59.7	30-130			
Chrysene	0.0983	0.000624	"	0.167		58.8	30-130			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L629607 - 3550B

LCS (LCS-L629607)

Prepared: 08/01/2022 Analyzed: 08/04/2022

Naphthalene	0.0961	0.000484	mg/Kg	0.167		57.5	30-130			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.333	65.4		33-115			
Surrogate: Nitrobenzene-d5	63		"	0.333	63		29-110			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333	75.3		33-122			

LRB (LRB-L629607)

Prepared: 08/01/2022 Analyzed: 08/04/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	46.8		"	0.333	46.8		33-115			
Surrogate: 4-Terphenyl-d14	54.6		"	0.333	54.6		33-122			
Surrogate: Nitrobenzene-d5	48.3		"	0.333	48.3		29-110			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L629768 - 3550B

MSD (L 93358-MSD-L629768)		Source: 93358			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Benzo(a)pyrene	0.0995	0.000468	mg/Kg	0.167	<0.000468	59.5	30-130	10.9	30	
Benzo(a)anthracene	0.101	0.000493	"	0.167	<0.000493	60.4	30-130	9.4	30	
Naphthalene	0.0876	0.000484	"	0.167	<0.000484	52.4	30-130	4.3	30	
Anthracene	0.0919	0.000334	"	0.167	<0.000334	55	30-130	3.3	30	
Indeno(1,2,3-cd)pyrene	0.119	0.000627	"	0.167	<0.000627	71.2	30-130	6	30	
Benzo(k)fluoranthene	0.0991	0.000437	"	0.167	<0.000437	59.3	30-130	6.6	30	
Fluorene	0.0929	0.000286	"	0.167	<0.000286	55.6	30-130	1.6	30	
Dibenz(a,h)anthracene	0.109	0.000614	"	0.167	<0.000614	65.2	30-130	5.6	30	
Chrysene	0.0934	0.000624	"	0.167	<0.000624	55.9	30-130	7.8	30	
Pyrene	0.1	0.000643	"	0.167	<0.000643	59.8	30-130	5.8	30	
1-Methylnaphthalene	0.0848	0.000364	"	0.167	<0.000364	50.7	30-130	2.3	30	
2-Methylnaphthalene	0.0843	0.000645	"	0.167	<0.000645	50.4	30-130	3.6	30	
Benzo(b)fluoranthene	0.0983	0.000585	"	0.167	<0.000585	58.8	30-130	6.5	30	
Acenaphthene	0.0842	0.000304	"	0.167	<0.000304	50.4	30-130	0.4	30	
Fluoranthene	0.101	0.000394	"	0.167	<0.000394	60.4	30-130	4.8	30	
Surrogate: Nitrobenzene-d5	52.8		"	0.333	188	52.8	29-110			
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333	174	50.7	33-115			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333	215	68.1	33-122			

MS (L 93358-MS-L629768)		Source: 93358			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Acenaphthene	0.0838	0.000304	mg/Kg	0.164	<0.000304	51	30-130			
Benzo(k)fluoranthene	0.0927	0.000437	"	0.164	<0.000437	56.5	30-130			
Fluoranthene	0.106	0.000394	"	0.164	<0.000394	64.6	30-130			
1-Methylnaphthalene	0.0828	0.000364	"	0.164	<0.000364	50.4	30-130			
2-Methylnaphthalene	0.0813	0.000645	"	0.164	<0.000645	49.5	30-130			
Pyrene	0.106	0.000643	"	0.164	<0.000643	64.6	30-130			
Naphthalene	0.0839	0.000484	"	0.164	<0.000484	51.1	30-130			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

PAH by 8270D-SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L629768 - 3550B

MS (L 93358-MS-L629768)		Source: 93358			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Fluorene	0.0914	0.000286	mg/Kg	0.164	<0.000286	55.7	30-130			
Anthracene	0.095	0.000334	"	0.164	<0.000334	57.9	30-130			
Dibenz(a,h)anthracene	0.103	0.000614	"	0.164	<0.000614	62.8	30-130			
Chrysene	0.101	0.000624	"	0.164	<0.000624	61.5	30-130			
Benzo(b)fluoranthene	0.0921	0.000585	"	0.164	<0.000585	56.1	30-130			
Benzo(a)pyrene	0.111	0.000468	"	0.164	<0.000468	67.6	30-130			
Benzo(a)anthracene	0.111	0.000493	"	0.164	<0.000493	67.6	30-130			
Indeno(1,2,3-cd)pyrene	0.112	0.000627	"	0.164	<0.000627	68.2	30-130			
Surrogate: 2-Fluorobiphenyl	47.7		"	0.329	174	47.7	33-115			
Surrogate: Nitrobenzene-d5	48		"	0.329	188	48	29-110			
Surrogate: 4-Terphenyl-d14	68		"	0.329	215	68	33-122			

LCS (LCS-L629768)		Prepared: 08/02/2022 Analyzed: 08/04/2022								
Benzo(a)anthracene	0.109	0.000493	mg/Kg	0.167		65.2	30-130			
Pyrene	0.106	0.000643	"	0.167		63.4	30-130			
Acenaphthene	0.0846	0.000304	"	0.167		50.6	30-130			
Benzo(b)fluoranthene	0.116	0.000585	"	0.167		69.4	30-130			
1-Methylnaphthalene	0.0851	0.000364	"	0.167		50.9	30-130			
Anthracene	0.096	0.000334	"	0.167		57.4	30-130			
Benzo(a)pyrene	0.107	0.000468	"	0.167		64	30-130			
Chrysene	0.102	0.000624	"	0.167		61	30-130			
Dibenz(a,h)anthracene	0.0937	0.000614	"	0.167		56.1	30-130			
Fluoranthene	0.108	0.000394	"	0.167		64.6	30-130			
Fluorene	0.0903	0.000286	"	0.167		54	30-130			
Indeno(1,2,3-cd)pyrene	0.112	0.000627	"	0.167		67	30-130			
Benzo(k)fluoranthene	0.1	0.000437	"	0.167		59.8	30-130			
2-Methylnaphthalene	0.0833	0.000645	"	0.167		49.8	30-130			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

PAH by 8270D-SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L629768 - 3550B

LCS (LCS-L629768)

Prepared: 08/02/2022 Analyzed: 08/04/2022

Naphthalene	0.0897	0.000484	mg/Kg	0.167		53.7	30-130			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333		73.8	33-122			
Surrogate: Nitrobenzene-d5	58.2		"	0.333		58.2	29-110			

LRB (LRB-L629768)

Prepared: 08/02/2022 Analyzed: 08/04/2022

Fluorene	ND	0.00067	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			
Surrogate: 2-Fluorobiphenyl	58.5		"	0.333		58.5	33-115			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L629589 -										
DUP (L 93153-DUP)		Source: 93153			Prepared: Analyzed: 08/02/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500	-		0	20	
MS (L 93153-MS)		Source: 93153			Prepared: Analyzed: 08/02/2022					
Chromium, Hexavalent	ND	0.247	mg/Kg	8.12	<0.247	0	75-125			*
MSD (L 93153-MSD)		Source: 93153			Prepared: Analyzed: 08/02/2022					
Chromium, Hexavalent	541	25.3	mg/Kg	747	<25.3	72	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/02/2022					
Chromium, Hexavalent	7.13	0.244	mg/Kg	8		89	75-125			
LRB (LRB)					Prepared: Analyzed: 08/02/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Absaroka

112 High St.

Buffalo

WY

82834

Kenneth Rogowski

Project Number: D90.CO.0504.21

Project: Oxbow S29

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

* 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.

Origins Laboratory, Inc.



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August 23, 2022

Absaroka

Kenneth Rogowski

112 High St.

Buffalo

WY

82834

Project Name - Oxbow S29

Project Number - D90.CO.0504.21

Attached are your analytical results for Oxbow S29 received by Origins Laboratory, Inc. August 01, 2022. This project is associated with Origins project number Y208023-01.

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



Absaroka
112 High St.
Buffalo

WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
O-13@84"	Y208023-01	Soil	July 28, 2022 9:00	08/01/2022 11:00
O-4@40"	Y208023-02	Soil	July 28, 2022 9:30	08/01/2022 11:00
O-B6@6"	Y208023-03	Soil	July 28, 2022 10:00	08/01/2022 11:00
O-B6@12"	Y208023-04	Soil	July 28, 2022 10:15	08/01/2022 11:00

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Absaroka
112 High St.
Buffalo

WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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LABORATORY, INC

www.originslaboratory.com

page 1 of 1

1208023

Client: Absaroka
Address: 112 High St., Buffalo, WY
Telephone Number: 970.222.7106
Email Address:

Project Manager: Ken Rogowski
Project Name: Oxbow S29
Project Number: D90.CO.0504.21
Samples Collected By: John Bragg

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
O-13 @ 84"	7/28/22	900	2	X				X			Table 915-1 Analyses	1
O-4 @ 40"	7/28/22	930	2	X				X			Table 915-1 Analyses	2
O-86 @ 6"	7/28/22	1000	2	X				X			Arsenic, EC, pH, Boron, SAR	3
O-86 @ 12"	7/28/22	1015	2	X				X			Arsenic, EC, pH, Boron, SAR	4
												5
												6
												7
												8
												9
												10

Relinquished By: *[Signature]*
Date: 7/28/22
Time: 1600

Received By: DE
Date: 08/01/2022
Time: 11:00

Turnaround Time:
Same Day ☐ 24 Hr ☐
48 Hr ☐ 72 Hr ☐
Standard ☒

Date Results Needed: 4.0°

Origins Laboratory, Inc.

J. Bynon

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Absaroka
112 High St.
Buffalo

WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4208023

Client: Absaroka

Client Project ID: Oxbow S29

Checklist Completed by: MC

Date/time completed: 8/1/22

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

Airbill #: NA

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

Cooler Number/Temperature: 1, 4.0 °C 1 °C 1 °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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/1/22

Origins Laboratory, Inc.

J. Bynon

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.

Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-13@84"

7/28/2022 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208023-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B2H0205	08/02/2022	08/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H0202	08/02/2022	08/04/2022	U
Residual Range Organics (C28-C40)	121	100	"	"	"	"	"	

Surrogate: o-Terphenyl	98.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0201	08/02/2022	08/03/2022	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	118 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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.

Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-13@84"

7/28/2022 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208023-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	106 %	70-130	B2H02 01	08/02/2022	08/03/2022
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	4.69	0.499	meq/L	10	[CALC]	08/02/2022	08/03/2022
Magnesium	2.53	0.823	"	"	"	"	"
Sodium	1.83	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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.

Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-13@84"

7/28/2022 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y208023-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.90	pH Units	1	B2H0208	08/02/2022	08/03/2022
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SAR by 20B Saturated Paste

SAR	0.962	SAR	1	B2H0204	08/02/2022	08/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.877	0.00500	mmhos/cm	1	B2H0208	08/02/2022	08/03/2022
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Table 915 metals by EPA 6020B

Arsenic	0.746	0.0922	mg/kg	5	B2H0324	08/03/2022	08/06/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-13@84"

7/28/2022 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208023-01 (Soil)

Table 915 metals by EPA 6020B

Barium	90.3	9.22	mg/kg	5	B2H0324	08/03/2022	08/06/2022	
Cadmium	0.154	0.0922	"	"	"	"	"	
Copper	17.1	9.22	"	"	"	"	"	
Lead	4.60	0.922	"	"	"	"	"	
Nickel	12.0	0.922	"	"	"	"	08/08/2022	
Selenium	ND	0.0922	"	"	"	"	"	U
Silver	ND	0.0922	"	"	"	"	08/06/2022	U
Zinc	ND	92.2	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L630281	07/28/2022	08/04/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-4@40"

7/28/2022 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208023-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2H0205	08/02/2022	08/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H0202	08/02/2022	08/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	111 %	50-150		"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0201	08/02/2022	08/03/2022	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	118 %	70-130		"	"	"
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Origins Laboratory, Inc.



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.

Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-4@40"

7/28/2022 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208023-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %	70-130	B2H02 01	08/02/2022	08/03/2022
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.14	0.499	meq/L	10	[CALC]	08/02/2022	08/03/2022
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	0.496	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-4@40"

7/28/2022 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y208023-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.80	pH Units	1	B2H0208	08/02/2022	08/03/2022
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SAR by 20B Saturated Paste

SAR	0.387	SAR	1	B2H0204	08/02/2022	08/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.447	0.00500	mmhos/cm	1	B2H0208	08/02/2022	08/03/2022
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Table 915 metals by EPA 6020B

Arsenic	0.454	0.0832	mg/kg	5	B2H0324	08/03/2022	08/06/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-4@40"

7/28/2022 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208023-02 (Soil)

Table 915 metals by EPA 6020B

Barium	72.4	8.32	mg/kg	5	B2H0324	08/03/2022	08/06/2022	
Cadmium	ND	0.0832	"	"	"	"	"	U
Copper	ND	8.32	"	"	"	"	"	U
Lead	1.63	0.832	"	"	"	"	"	
Nickel	5.63	0.832	"	"	"	"	08/08/2022	
Selenium	ND	0.0832	"	"	"	"	"	U
Silver	ND	0.0832	"	"	"	"	08/06/2022	U
Zinc	ND	83.2	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L630281	07/28/2022	08/04/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-B6@6"

7/28/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208023-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.385	0.0992	mg/L	1	B2H0205	08/02/2022	08/03/2022
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Metals by Saturated Paste by EPA 6010

Calcium	1.73	0.499	meq/L	10	[CALC]	"	08/03/2022
Magnesium	1.83	0.823	"	"	"	"	"
Sodium	3.62	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.88		pH Units	1	B2H0208	08/02/2022	08/03/2022
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SAR by 20B Saturated Paste

SAR	2.71		SAR	1	B2H0204	08/02/2022	08/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.666	0.00500	mmhos/cm	1	B2H0208	08/02/2022	08/03/2022
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Table 915 metals by EPA 6020B

Arsenic	1.33	0.0905	mg/kg	5	B2H0324	08/03/2022	08/06/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

O-B6@12"

7/28/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208023-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.135	0.0982	mg/L	1	B2H0205	08/02/2022	08/03/2022
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Metals by Saturated Paste by EPA 6010

Calcium	1.69	0.499	meq/L	10	[CALC]	"	08/03/2022
Magnesium	1.26	0.823	"	"	"	"	"
Sodium	2.25	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.97		pH Units	1	B2H0208	08/02/2022	08/03/2022
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SAR by 20B Saturated Paste

SAR	1.85		SAR	1	B2H0204	08/02/2022	08/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.504	0.00500	mmhos/cm	1	B2H0208	08/02/2022	08/03/2022
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Table 915 metals by EPA 6020B

Arsenic	1.46	0.0718	mg/kg	5	B2H0324	08/03/2022	08/06/2022
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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
Batch B2H0201 - EPA 5030 (soil)										
Blank (B2H0201-BLK1)					Prepared: 08/02/2022 Analyzed: 08/02/2022					
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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.9		70-130			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2H0201 - EPA 5030 (soil)

LCS (B2H0201-BS1)

Prepared: 08/02/2022 Analyzed: 08/02/2022

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.120	0.0100	"	0.100		120	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.119	0.00200	"	0.100		119	70-130			
m,p-Xylene	0.229	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2H0201 - EPA 5030 (soil)

Matrix Spike (B2H0201-MS1)		Source: Y207628-01			Prepared: 08/02/2022 Analyzed: 08/02/2022					
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Benzene	0.106	0.00200	"	0.100	ND	106	70-130			
Ethylbenzene	0.119	0.00200	"	0.100	ND	119	70-130			
Naphthalene	0.0987	0.0100	"	0.100	0.000580	98.1	70-130			
Toluene	0.111	0.00200	"	0.100	ND	111	70-130			
o-Xylene	0.122	0.00200	"	0.100	ND	122	70-130			
m,p-Xylene	0.236	0.00400	"	0.200	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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
Batch B2H0201 - EPA 5030 (soil)										
Matrix Spike Dup (B2H0201-MSD1)		Source: Y207628-01			Prepared: 08/02/2022 Analyzed: 08/02/2022					
1,2,4-Trimethylbenzene	0.0813	0.00200	mg/kg	0.100	ND	81.3	70-130	20.3	20	QR-02
1,3,5-Trimethylbenzene	0.0814	0.00200	"	0.100	ND	81.4	70-130	20.9	20	QR-02
Benzene	0.0959	0.00200	"	0.100	ND	95.9	70-130	9.97	20	
Ethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130	19.3	20	
Naphthalene	0.0846	0.0100	"	0.100	0.000580	84.0	70-130	15.4	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	9.48	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	17.2	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.1	70-130	19.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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
Batch B2H0202 - EPA 3550B										
Blank (B2H0202-BLK1)					Prepared: 08/02/2022 Analyzed: 08/04/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		79.9	50-150			

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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2H0202 - EPA 3550B

LCS (B2H0202-BS1)

Prepared: 08/02/2022 Analyzed: 08/04/2022

Diesel (C10-C28)	479	25.0	mg/kg	500		95.7	70-130			
Residual Range Organics (C28-C40)	497	100	"	500		99.3	70-130			
Surrogate: o-Terphenyl	27		"	24.9		108	50-150			

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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2H0202 - EPA 3550B

Matrix Spike (B2H0202-MS1)		Source: Y208011-01			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Diesel (C10-C28)	694	25.0	mg/kg	500	631	12.6	70-130			QM-07
Residual Range Organics (C28-C40)	1870	100	"	500	3620	NR	70-130			QM-07
Surrogate: o-Terphenyl	25		"	24.9		98.9	50-150			

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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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 B2H0202 - EPA 3550B

Matrix Spike Dup (B2H0202-MSD1)		Source: Y208011-01			Prepared: 08/02/2022 Analyzed: 08/04/2022					
Diesel (C10-C28)	658	25.0	mg/kg	500	631	5.44	70-130	5.30	35	QM-07
Residual Range Organics (C28-C40)	1840	100	"	500	3620	NR	70-130	1.45	35	QM-07
Surrogate: o-Terphenyl	26		"	24.9		105	50-150			

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Project Number: D90.CO.0504.21
Project: Oxbow S29

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 SM 3500 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 B2H0324 - Default Prep Metals

Blank (B2H0324-BLK1)

Prepared: 08/03/2022 Analyzed: 08/06/2022

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B2H0324-BS1)

Prepared: 08/03/2022 Analyzed: 08/06/2022

Arsenic	0.0483	0.000100	mg/kg	0.0500		96.6	80-120
Barium	4.93	0.0100	"	5.00		98.5	80-120
Cadmium	0.0506	0.000100	"	0.0500		101	80-120
Copper	0.525	0.0100	"	0.500		105	80-120
Lead	0.0524	0.00100	"	0.0500		105	80-120
Nickel	0.0527	0.00100	"	0.0500		105	80-120
Selenium	0.0452	0.000100	"	0.0500		90.3	80-120
Silver	0.0571	0.000100	"	0.0500		114	80-120
Zinc	0.490	0.100	"	0.500		98.1	80-120

Matrix Spike (B2H0324-MS1)

Source: Y208023-01

Prepared: 08/03/2022 Analyzed: 08/06/2022

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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Metals by SM 3500 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 B2H0324 - Default Prep Metals

Matrix Spike (B2H0324-MS1)		Source: Y208023-01			Prepared: 08/03/2022 Analyzed: 08/06/2022					
Arsenic	6.60	0.0175	mg/kg	8.74	0.746	67.0	75-125			QM-07
Barium	1170	1.75	"	874	90.3	124	75-125			
Cadmium	11.3	0.0175	"	8.74	0.154	127	75-125			QM-07
Copper	78.8	1.75	"	87.4	17.1	70.7	75-125			QM-07
Lead	16.3	0.175	"	8.74	4.60	133	75-125			QR-02
Nickel	14.6	0.175	"	8.74	12.0	30.3	75-125			QM-07
Selenium	6.39	0.0175	"	8.74	ND	73.2	75-125			QM-07
Silver	12.3	0.0175	"	8.74	0.0903	139	75-125			QM-07
Zinc	91.5	17.5	"	87.4	42.8	55.7	75-125			QM-07
Matrix Spike Dup (B2H0324-MSD1)		Source: Y208023-01			Prepared: 08/03/2022 Analyzed: 08/06/2022					
Arsenic	6.08	0.0195	mg/kg	9.74	0.746	54.8	75-125	8.16	20	QM-07
Barium	1040	1.95	"	974	90.3	97.0	75-125	12.4	20	
Cadmium	9.82	0.0195	"	9.74	0.154	99.3	75-125	13.6	20	
Copper	71.7	1.95	"	97.4	17.1	56.1	75-125	9.46	20	QM-07
Lead	14.8	0.195	"	9.74	4.60	104	75-125	9.62	20	
Nickel	15.0	0.195	"	9.74	12.0	30.9	75-125	2.48	20	QM-07
Selenium	5.94	0.0195	"	9.74	ND	61.0	75-125	7.32	20	QM-07
Silver	10.6	0.0195	"	9.74	0.0903	108	75-125	14.2	20	
Zinc	85.3	19.5	"	97.4	42.8	43.6	75-125	7.07	20	QM-07

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Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H0208 - NO PREP										
Blank (B2H0208-BLK1)					Prepared: 08/02/2022 Analyzed: 08/03/2022					
pH	0.00		pH Units							
Specific Conductance (EC)	0.00180	0.00500	mmhos/cm							
Duplicate (B2H0208-DUP1)					Source: Y208011-01 Prepared: 08/02/2022 Analyzed: 08/03/2022					
pH	8.52		pH Units		9.21			7.78	25	
Specific Conductance (EC)	0.302	0.00500	mmhos/cm		0.316			4.24	25	

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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L630318 - 3550B

MSD (L 94634-MSD-L630318)		Source: Y208023-02			Prepared: 08/04/2022 Analyzed: 08/05/2022					
Indeno(1,2,3-cd)pyrene	0.0997	0.000627	mg/Kg	0.165	<0.000627	60.4	30-130	0	30	
Benzo(k)fluoranthene	0.0991	0.000437	"	0.165	<0.000437	60	30-130	4.6	30	
Naphthalene	0.0919	0.000484	"	0.165	<0.000484	55.6	30-130	4.9	30	
Pyrene	0.111	0.000643	"	0.165	<0.000643	67.2	30-130	8.6	30	
Anthracene	0.104	0.000334	"	0.165	<0.000334	63	30-130	9.1	30	
1-Methylnaphthalene	0.0969	0.000364	"	0.165	<0.000364	58.7	30-130	3.5	30	
2-Methylnaphthalene	0.0954	0.000645	"	0.165	<0.000645	57.8	30-130	3.3	30	
Dibenz(a,h)anthracene	0.0949	0.000614	"	0.165	<0.000614	57.5	30-130	0.5	30	
Acenaphthene	0.0959	0.000304	"	0.165	<0.000304	58.1	30-130	0.5	30	
Fluorene	0.103	0.000286	"	0.165	<0.000286	62.4	30-130	1.9	30	
Benzo(a)anthracene	0.113	0.000493	"	0.165	<0.000493	68.4	30-130	10	30	
Benzo(a)pyrene	0.116	0.000468	"	0.165	<0.000468	70.3	30-130	9	30	
Benzo(b)fluoranthene	0.102	0.000585	"	0.165	<0.000585	61.8	30-130	8.4	30	
Chrysene	0.105	0.000624	"	0.165	<0.000624	63.6	30-130	8.2	30	
Fluoranthene	0.112	0.000394	"	0.165	<0.000394	67.8	30-130	7.7	30	
Surrogate: Nitrobenzene-d5	59.3		"	0.33	197	59.3	29-110			
Surrogate: 2-Fluorobiphenyl	58.7		"	0.33	193	58.7	33-115			
Surrogate: 4-Terphenyl-d14	70		"	0.33	242	70	33-122			

MS (L 94634-MS-L630318)		Source: Y208023-02			Prepared: 08/04/2022 Analyzed: 08/05/2022					
Fluorene	0.105	0.000286	mg/Kg	0.163	<0.000286	64.4	30-130			
Dibenz(a,h)anthracene	0.0954	0.000614	"	0.163	<0.000614	58.5	30-130			
Pyrene	0.121	0.000643	"	0.163	<0.000643	74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0997	0.000627	"	0.163	<0.000627	61.1	30-130			
Fluoranthene	0.121	0.000394	"	0.163	<0.000394	74.2	30-130			
Chrysene	0.114	0.000624	"	0.163	<0.000624	69.9	30-130			
2-Methylnaphthalene	0.0923	0.000645	"	0.163	<0.000645	56.6	30-130			

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Absaroka
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Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L630318 - 3550B

MS (L 94634-MS-L630318)		Source: Y208023-02			Prepared: 08/04/2022 Analyzed: 08/05/2022					
1-Methylnaphthalene	0.0935	0.000364	mg/Kg	0.163	<0.000364	57.3	30-130			
Anthracene	0.114	0.000334	"	0.163	<0.000334	69.9	30-130			
Benzo(a)anthracene	0.125	0.000493	"	0.163	<0.000493	76.6	30-130			
Benzo(a)pyrene	0.127	0.000468	"	0.163	<0.000468	77.9	30-130			
Benzo(b)fluoranthene	0.111	0.000585	"	0.163	<0.000585	68	30-130			
Acenaphthene	0.0954	0.000304	"	0.163	<0.000304	58.5	30-130			
Benzo(k)fluoranthene	0.0946	0.000437	"	0.163	<0.000437	58	30-130			
Naphthalene	0.0875	0.000484	"	0.163	<0.000484	53.6	30-130			
Surrogate: Nitrobenzene-d5	56.2		"	0.327	197	56.2	29-110			
Surrogate: 4-Terphenyl-d14	77		"	0.327	242	77	33-122			
Surrogate: 2-Fluorobiphenyl	57.1		"	0.327	193	57.1	33-115			

LCS (LCS-L630318)		Prepared: 08/04/2022 Analyzed: 08/05/2022								
Benzo(k)fluoranthene	0.101	0.000437	mg/Kg	0.167		60.4	30-130			
Fluoranthene	0.109	0.000394	"	0.167		65.2	30-130			
Naphthalene	0.0921	0.000484	"	0.167		55.1	30-130			
Indeno(1,2,3-cd)pyrene	0.078	0.000627	"	0.167		46.7	30-130			
Fluorene	0.104	0.000286	"	0.167		62.2	30-130			
1-Methylnaphthalene	0.0986	0.000364	"	0.167		59	30-130			
Dibenz(a,h)anthracene	0.0743	0.000614	"	0.167		44.4	30-130			
2-Methylnaphthalene	0.0972	0.000645	"	0.167		58.2	30-130			
Chrysene	0.102	0.000624	"	0.167		61	30-130			
Acenaphthene	0.098	0.000304	"	0.167		58.6	30-130			
Anthracene	0.104	0.000334	"	0.167		62.2	30-130			
Benzo(a)anthracene	0.11	0.000493	"	0.167		65.8	30-130			
Benzo(a)pyrene	0.114	0.000468	"	0.167		68.2	30-130			
Benzo(b)fluoranthene	0.099	0.000585	"	0.167		59.2	30-130			

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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L630318 - 3550B

LCS (LCS-L630318)

Prepared: 08/04/2022 Analyzed: 08/05/2022

Pyrene	0.108	0.000643	mg/Kg	0.167		64.6	30-130			
Surrogate: Nitrobenzene-d5	67.2		"	0.333		67.2	29-110			
Surrogate: 4-Terphenyl-d14	77.1		"	0.333		77.1	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			

LRB (LRB-L630318)

Prepared: 08/04/2022 Analyzed: 08/05/2022

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	56.1		"	0.333		56.1	29-110			
Surrogate: 4-Terphenyl-d14	72.6		"	0.333		72.6	33-122			
Surrogate: 2-Fluorobiphenyl	59.7		"	0.333		59.7	33-115			

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Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L630281 -										
DUP (L 82057-DUP)		Source: 82057			Prepared: Analyzed: 08/04/2022					
Chromium, Hexavalent	ND	0.497	mg/Kg		<1.02	-		0	20	
MS (L 82057-MS)		Source: 82057			Prepared: Analyzed: 08/04/2022					
Chromium, Hexavalent	4.2	0.497	mg/Kg	8.16	<0.497	51	75-125			*
MSD (L 82057-MSD)		Source: 82057			Prepared: Analyzed: 08/04/2022					
Chromium, Hexavalent	566	24.8	mg/Kg	629	<24.8	90	75-125			
LCS (LCS)					Prepared: Analyzed: 08/04/2022					
Chromium, Hexavalent	7.06	0.244	mg/Kg	8		88	75-125			
LRB (LRB)					Prepared: Analyzed: 08/04/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Absaroka
112 High St.
Buffalo WY 82834

Kenneth Rogowski
Project Number: D90.CO.0504.21
Project: Oxbow S29

Notes and Definitions

U Sample is Non-Detect.

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.

Origins Laboratory, Inc.



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.