



Ensolum

October 04, 2024

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - HSR - Nichols 6-15A
Wellhead**

Project Number - 09A1417769

Attached are your analytical results for KMG - HSR - Nichols 6-15A Wellhead received by Origins Laboratory August 30, 2024. This project is associated with Origins project number Y408884-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01 (6-15A)@6'	Y408884-01	Soil	August 30, 2024 11:00	08/30/2024 17:13
WH-RISER(6-15A)@3'	Y408884-02	Soil	August 30, 2024 11:05	08/30/2024 17:13
B01(6-15A)@6'-V	Y408884-03	Soil	August 30, 2024 11:01	08/30/2024 17:13
WH-RISER(6-15A)@6'-V	Y408884-04	Soil	August 30, 2024 11:06	08/30/2024 17:13
NATIVE-BG01@3'	Y408884-05	Soil	August 30, 2024 11:10	08/30/2024 17:13
NATIVE-BG01@6'	Y408884-06	Soil	August 30, 2024 11:12	08/30/2024 17:13
NATIVE-BG02@3'	Y408884-07	Soil	August 30, 2024 11:15	08/30/2024 17:13
NATIVE-BG02@6'	Y408884-08	Soil	August 30, 2024 11:17	08/30/2024 17:13
NATIVE-BG03@3'	Y408884-09	Soil	August 30, 2024 11:20	08/30/2024 17:13
NATIVE-BG03@6'	Y408884-10	Soil	August 30, 2024 11:22	08/30/2024 17:13
NATIVE-BG04@3'	Y408884-11	Soil	August 30, 2024 11:25	08/30/2024 17:13
NATIVE-BG04@6'	Y408884-12	Soil	August 30, 2024 11:27	08/30/2024 17:13

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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4408884 Client: ENSOLINA
 Checklist Completed by: [Signature] Client Project ID: NICHOLS 6-15A
 Date/time completed: 8/30/12 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 9.2 °C _____ °C _____ °C (Describe) _____ °C
 Thermometer ID: 1005

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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 8/30/12

Origins Laboratory

[Signature]

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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

B01 (6-15A)@6'
8/30/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.180		0.101	mg/L	1	B4I0308	09/03/2024	09/04/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H3043	08/30/2024	08/31/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	98.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H3041	08/30/2024	08/30/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
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 Project: KMG - HSR - Nichols 6-15A Wellhead

B01 (6-15A)@6'
8/30/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.7 %	70-130	B4H30 41	08/30/2024	08/30/2024
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.585	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H3040	08/30/2024	08/31/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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Jeremy Espinoza
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 Project: KMG - HSR - Nichols 6-15A Wellhead

B01 (6-15A)@6'
8/30/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4H3040	08/30/2024	08/31/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.81			pH Units	1	B4I0320	09/03/2024	09/04/2024	
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SAR by 20B Saturated Paste

SAR	1.91		0.0100	SAR	1	B4I0314	09/03/2024	09/04/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.342		0.00500	mmhos/cm	1	B4I0320	09/03/2024	09/04/2024	
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Table 915 metals by EPA 6020B

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B01 (6-15A)@6'
8/30/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.625		0.260	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Barium	40.5		8.97	"	"	"	"	"	
Cadmium	ND		0.0897	"	"	"	"	"	
Copper	ND		8.97	"	"	"	"	"	
Lead	3.00		0.897	"	"	"	"	"	
Nickel	2.90		0.897	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0897	"	"	"	"	"	
Zinc	ND		33.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.164	0.411	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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WH-RISER(6-15A)@3'
8/30/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.307		0.100	mg/L	1	B4I0308	09/03/2024	09/04/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H3043	08/30/2024	08/31/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	94.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H3041	08/30/2024	08/30/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
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WH-RISER(6-15A)@3'
8/30/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B4H30 41	08/30/2024	08/30/2024
Surrogate: 4-Bromofluorobenzene	112 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H3040	08/30/2024	08/31/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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WH-RISER(6-15A)@3'
8/30/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4H3040	08/30/2024	08/31/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.57			pH Units	1	B4I0320	09/03/2024	09/04/2024	
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SAR by 20B Saturated Paste

SAR	0.405		0.0100	SAR	1	B4I0314	09/03/2024	09/04/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.283		0.00500	mmhos/cm	1	B4I0320	09/03/2024	09/04/2024	
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Table 915 metals by EPA 6020B

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WH-RISER(6-15A)@3'
8/30/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.16		0.244	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Barium	44.7		8.41	"	"	"	"	"	
Cadmium	ND		0.0841	"	"	"	"	"	
Copper	ND		8.41	"	"	"	"	"	
Lead	3.95		0.841	"	"	"	"	"	
Nickel	3.20		0.841	"	"	"	"	"	
Selenium	ND		0.219	"	"	"	"	"	
Silver	ND		0.0841	"	"	"	"	"	
Zinc	ND		31.1	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.158	0.395	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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B01(6-15A)@6'-V

8/30/2024 11:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-03 (Soil)

pH in Soil by 9045D

pH	9.11			pH Units	1	B410324	09/03/2024	09/03/2024	
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 Project: KMG - HSR - Nichols 6-15A Wellhead

WH-RISER(6-15A)@6'-V

8/30/2024 11:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-04 (Soil)

pH in Soil by 9045D

pH	8.62			pH Units	1	B410324	09/03/2024	09/03/2024	
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NATIVE-BG01@3'
8/30/2024 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.307		0.0996	mg/L	1	B410308	09/03/2024	09/04/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.01		0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.55			pH Units	1	B410320	09/03/2024	09/04/2024	
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SAR by 20B Saturated Paste

SAR	0.0444		0.0100	SAR	1	B410314	09/03/2024	09/04/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.180		0.00500	mmhos/cm	1	B410320	09/03/2024	09/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.25		0.276	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Barium	59.9		9.52	"	"	"	"	"	
Cadmium	ND		0.0952	"	"	"	"	"	

Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417769
Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG01@3'
8/30/2024 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.52	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Lead	4.41		0.952	"	"	"	"	"	
Nickel	4.41		0.952	"	"	"	"	"	
Selenium	ND		0.247	"	"	"	"	"	
Silver	ND		0.0952	"	"	"	"	"	
Zinc	ND		35.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.146	0.366	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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Origins Laboratory



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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG01@6'
8/30/2024 11:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.101		0.100	mg/L	1	B4I0308	09/03/2024	09/04/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.759		0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.68		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B4I0320	09/03/2024	09/04/2024	
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SAR by 20B Saturated Paste

SAR	2.26		0.0100	SAR	1	B4I0314	09/03/2024	09/04/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.316		0.00500	mmhos/cm	1	B4I0320	09/03/2024	09/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.649		0.274	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Barium	29.2		9.43	"	"	"	"	"	
Cadmium	ND		0.0943	"	"	"	"	"	
Copper	ND		9.43	"	"	"	"	"	

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417769
Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG01@6'
8/30/2024 11:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-06 (Soil)

Table 915 metals by EPA 6020B

Lead	2.19		0.943	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Nickel	1.72		0.943	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	
Silver	ND		0.0943	"	"	"	"	"	
Zinc	ND		34.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.137	0.342	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG02@3'
8/30/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B4I0308	09/03/2024	09/04/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.79			pH Units	1	B4I0320	09/03/2024	09/04/2024	
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SAR by 20B Saturated Paste

SAR	0.0656		0.0100	SAR	1	B4I0314	09/03/2024	09/04/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0591		0.00500	mmhos/cm	1	B4I0320	09/03/2024	09/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.14		0.258	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Barium	40.6		8.90	"	"	"	"	"	
Cadmium	ND		0.0890	"	"	"	"	"	

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Jeremy Espinoza
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 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG02@3'
8/30/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-07 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.90	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Lead	3.73		0.890	"	"	"	"	"	
Nickel	3.51		0.890	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0890	"	"	"	"	"	
Zinc	ND		32.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.146	0.366	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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Jeremy Espinoza
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 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG02@6'
8/30/2024 11:17:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.216	0.0987	mg/L	1	B4I0308	09/03/2024	09/04/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.659	0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.486	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.24	pH Units	1	B4I0320	09/03/2024	09/04/2024
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SAR by 20B Saturated Paste

SAR	0.713	0.0100	SAR	1	B4I0314	09/03/2024	09/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.155	0.00500	mmhos/cm	1	B4I0320	09/03/2024	09/04/2024
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Table 915 metals by EPA 6020B

Arsenic	1.13	0.267	mg/kg	10	B4H3042	08/30/2024	08/31/2024
Barium	43.4	9.20	"	"	"	"	"
Cadmium	ND	0.0920	"	"	"	"	"
Copper	2530	9.20	"	"	"	"	"

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG02@6'
8/30/2024 11:17:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-08 (Soil)

Table 915 metals by EPA 6020B

Lead	183		0.920	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Nickel	15.4		0.920	"	"	"	"	"	
Selenium	0.557		0.239	"	"	"	"	"	
Silver	0.790		0.0920	"	"	"	"	"	
Zinc	230		34.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.169	0.422	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG03@3'

8/30/2024 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.254	0.0988	mg/L	1	B410308	09/03/2024	09/04/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.677	0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B410320	09/03/2024	09/04/2024
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SAR by 20B Saturated Paste

SAR	0.0494	0.0100	SAR	1	B410314	09/03/2024	09/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.125	0.00500	mmhos/cm	1	B410320	09/03/2024	09/04/2024
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Table 915 metals by EPA 6020B

Arsenic	0.970	0.265	mg/kg	10	B4H3042	08/30/2024	08/31/2024
Barium	40.4	9.14	"	"	"	"	"
Cadmium	ND	0.0914	"	"	"	"	"

Origins Laboratory



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG03@3'
8/30/2024 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-09 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.14	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Lead	3.54		0.914	"	"	"	"	"	
Nickel	3.23		0.914	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	ND		33.8	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.152	0.380	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG03@6'

8/30/2024 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.198		0.102	mg/L	1	B4I0308	09/03/2024	09/04/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.918		0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.27		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B4I0320	09/03/2024	09/04/2024	
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SAR by 20B Saturated Paste

SAR	1.60		0.0100	SAR	1	B4I0314	09/03/2024	09/04/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.278		0.00500	mmhos/cm	1	B4I0320	09/03/2024	09/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.18		0.282	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Barium	41.6		9.72	"	"	"	"	"	
Cadmium	ND		0.0972	"	"	"	"	"	
Copper	ND		9.72	"	"	"	"	"	

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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417769
Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG03@6'

8/30/2024 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
Y408884-10 (Soil)**

Table 915 metals by EPA 6020B

Lead	3.88		0.972	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Nickel	3.16		0.972	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0972	"	"	"	"	"	
Zinc	ND		36.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.170	0.424	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG04@3'
8/30/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.806	0.101	mg/L	1	B410308	09/03/2024	09/04/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.714	0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.41	pH Units	1	B410320	09/03/2024	09/04/2024
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SAR by 20B Saturated Paste

SAR	0.180	0.0100	SAR	1	B410314	09/03/2024	09/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.132	0.00500	mmhos/cm	1	B410320	09/03/2024	09/04/2024
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Table 915 metals by EPA 6020B

Arsenic	1.65	0.250	mg/kg	10	B4H3042	08/30/2024	08/31/2024
Barium	82.2	8.63	"	"	"	"	"
Cadmium	ND	0.0863	"	"	"	"	"
Copper	379	8.63	"	"	"	"	"

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Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG04@3'
8/30/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-11 (Soil)

Table 915 metals by EPA 6020B

Lead	31.3		0.863	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Nickel	7.98		0.863	"	"	"	"	"	
Selenium	ND		0.224	"	"	"	"	"	
Silver	0.132		0.0863	"	"	"	"	"	
Zinc	56.5		31.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.121	0.302	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG04@6'
8/30/2024 11:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.146	0.100	mg/L	1	B4I0309	09/03/2024	09/04/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.588	0.499	meq/L	10	[CALC]	09/03/2024	09/04/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.57	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B4I0320	09/03/2024	09/04/2024
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SAR by 20B Saturated Paste

SAR	2.42	0.0100	SAR	1	B4I0314	09/03/2024	09/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.280	0.00500	mmhos/cm	1	B4I0320	09/03/2024	09/04/2024
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Table 915 metals by EPA 6020B

Arsenic	0.697	0.278	mg/kg	10	B4H3042	08/30/2024	08/31/2024
Barium	37.2	9.60	"	"	"	"	"
Cadmium	ND	0.0960	"	"	"	"	"
Copper	ND	9.60	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417769
Project: KMG - HSR - Nichols 6-15A Wellhead

NATIVE-BG04@6'
8/30/2024 11:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408884-12 (Soil)

Table 915 metals by EPA 6020B

Lead	3.68		0.960	mg/kg	10	B4H3042	08/30/2024	08/31/2024	
Nickel	2.72		0.960	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0960	"	"	"	"	"	
Zinc	ND		35.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.0944	0.236	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3041 - EPA 5030 (soil)

Blank (B4H3041-BLK1)

Prepared: 08/30/2024 Analyzed: 08/30/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3041 - EPA 5030 (soil)

LCS (B4H3041-BS1)

Prepared: 08/30/2024 Analyzed: 08/30/2024

1,2,4-Trimethylbenzene	0.0864	0.00200	mg/kg	0.100		86.4	70-130			
1,3,5-Trimethylbenzene	0.0943	0.00200	"	0.100		94.3	70-130			
Benzene	0.0908	0.00200	"	0.100		90.8	70-130			
Ethylbenzene	0.0879	0.00200	"	0.100		87.9	70-130			
Naphthalene	0.0801	0.00380	"	0.100		80.1	70-130			
Toluene	0.0912	0.00200	"	0.100		91.2	70-130			
o-Xylene	0.0829	0.00200	"	0.100		82.9	70-130			
m,p-Xylene	0.174	0.00400	"	0.200		87.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3041 - EPA 5030 (soil)

Matrix Spike (B4H3041-MS1)	Source: Y408884-01			Prepared: 08/30/2024 Analyzed: 08/30/2024						
1,2,4-Trimethylbenzene	0.0824	0.00200	mg/kg	0.100	ND	82.4	70-130			
1,3,5-Trimethylbenzene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
Benzene	0.0793	0.00200	"	0.100	ND	79.3	70-130			
Ethylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
Naphthalene	0.0718	0.00380	"	0.100	0.00110	70.7	70-130			
Toluene	0.0778	0.00200	"	0.100	ND	77.8	70-130			
o-Xylene	0.0772	0.00200	"	0.100	ND	77.2	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	84.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3041 - EPA 5030 (soil)

Matrix Spike Dup (B4H3041-MSD1)	Source: Y408884-01			Prepared: 08/30/2024 Analyzed: 08/30/2024						
1,2,4-Trimethylbenzene	0.0872	0.00200	mg/kg	0.100	ND	87.2	70-130	5.66	20	
1,3,5-Trimethylbenzene	0.0938	0.00200	"	0.100	ND	93.8	70-130	5.88	20	
Benzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	2.14	20	
Ethylbenzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	8.67	20	
Naphthalene	0.0776	0.00380	"	0.100	0.00110	76.5	70-130	7.74	20	
Toluene	0.0819	0.00200	"	0.100	ND	81.9	70-130	5.13	20	
o-Xylene	0.0833	0.00200	"	0.100	ND	83.3	70-130	7.60	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.3	70-130	8.38	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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Project: KMG - HSR - Nichols 6-15A Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H3043 - EPA 3550B										
Blank (B4H3043-BLK1)										
					Prepared: 08/30/2024 Analyzed: 08/31/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		97.0	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3043 - EPA 3550B

LCS (B4H3043-BS1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

Diesel (C10-C28)	537	25.0	mg/kg	500		107	70-130			
Residual Range Organics (C28-C40)	544	100	"	500		109	70-130			
Surrogate: o-Terphenyl	30		"	24.9		119	50-150			

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Project Number: 09A1417769
Project: KMG - HSR - Nichols 6-15A Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3043 - EPA 3550B

Matrix Spike (B4H3043-MS1)	Source: Y408884-01			Prepared: 08/30/2024 Analyzed: 08/31/2024						
Diesel (C10-C28)	476	25.0	mg/kg	500	ND	95.1	70-130			
Residual Range Organics (C28-C40)	496	100	"	500	ND	99.2	70-130			
Surrogate: o-Terphenyl	26		"	24.9		105	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3043 - EPA 3550B

Matrix Spike Dup (B4H3043-MSD1)	Source: Y408884-01			Prepared: 08/30/2024 Analyzed: 08/31/2024						
Diesel (C10-C28)	540	25.0	mg/kg	500	ND	108	70-130	12.7	35	
Residual Range Organics (C28-C40)	569	100	"	500	ND	114	70-130	13.6	35	
<i>Surrogate: o-Terphenyl</i>	31		"	24.9		126	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3042 - EPA 3050B

Blank (B4H3042-BLK1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

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

LCS (B4H3042-BS1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

Arsenic	5.12	0.290	mg/kg	5.00		102	80-120			
Barium	564	10.0	"	500		113	80-120			
Cadmium	5.62	0.100	"	5.00		112	80-120			
Copper	55.3	10.0	"	50.0		111	80-120			
Lead	5.57	1.00	"	5.00		111	80-120			
Nickel	5.67	1.00	"	5.00		113	80-120			
Selenium	5.01	0.260	"	5.00		100	80-120			
Silver	5.61	0.100	"	5.00		112	80-120			
Zinc	52.1	37.0	"	50.0		104	80-120			

Matrix Spike (B4H3042-MS1)

Source: Y408883-05

Prepared: 08/30/2024 Analyzed: 08/31/2024

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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3042 - EPA 3050B

Matrix Spike (B4H3042-MS1)		Source: Y408883-05			Prepared: 08/30/2024 Analyzed: 08/31/2024					
Arsenic	4.74	0.282	mg/kg	4.87	0.850	79.9	75-125			
Barium	476	9.74	"	487	36.0	90.4	75-125			
Cadmium	4.45	0.0974	"	4.87	0.0372	90.7	75-125			
Copper	47.0	9.74	"	48.7	3.68	88.9	75-125			
Lead	7.87	0.974	"	4.87	3.95	80.7	75-125			
Nickel	7.78	0.974	"	4.87	3.29	92.2	75-125			
Selenium	4.05	0.253	"	4.87	ND	83.3	75-125			
Silver	4.56	0.0974	"	4.87	0.0172	93.2	75-125			
Zinc	56.2	36.0	"	48.7	16.1	82.2	75-125			

Matrix Spike Dup (B4H3042-MSD1)		Source: Y408883-05			Prepared: 08/30/2024 Analyzed: 08/31/2024					
Arsenic	4.53	0.246	mg/kg	4.24	0.850	86.6	75-125	4.57	20	
Barium	470	8.49	"	424	36.0	102	75-125	1.21	20	
Cadmium	4.27	0.0849	"	4.24	0.0372	99.7	75-125	4.17	20	
Copper	44.0	8.49	"	42.4	3.68	94.9	75-125	6.63	20	
Lead	8.52	0.849	"	4.24	3.95	108	75-125	7.88	20	
Nickel	7.51	0.849	"	4.24	3.29	99.4	75-125	3.53	20	
Selenium	4.02	0.221	"	4.24	ND	94.7	75-125	0.884	20	
Silver	4.38	0.0849	"	4.24	0.0172	103	75-125	3.83	20	
Zinc	53.5	31.4	"	42.4	16.1	88.1	75-125	4.82	20	

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Jeremy Espinoza
 Project Number: 09A1417769
 Project: KMG - HSR - Nichols 6-15A Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3040 - EPA 3580

Blank (B4H3040-BLK1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	180		"	200		90.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

LCS (B4H3040-BS1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200		97.7	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200		98.1	70-130			
Acenaphthene	0.203	0.020	"	0.200		102	70-130			
Anthracene	0.192	0.020	"	0.200		95.8	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3040 - EPA 3580

LCS (B4H3040-BS1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

Benzo (a) anthracene	0.198	0.005	mg/kg	0.200		98.9	70-130			
Benzo (a) pyrene	0.202	0.020	"	0.200		101	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		99.8	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.195	0.020	"	0.200		97.7	70-130			
Chrysene	0.188	0.020	"	0.200		93.8	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		100	70-130			
Fluoranthene	0.179	0.020	"	0.200		89.3	70-130			
Fluorene	0.201	0.020	"	0.200		101	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200		96.3	70-130			
Naphthalene	0.207	0.002	"	0.200		103	70-130			
Phenanthrene	0.192	0.020	"	0.200		95.9	70-130			
Pyrene	0.205	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.2	60-130			
Surrogate: Anthracene-d10	180		"	200		90.0	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B4H3040-MS1)

Source: Y408884-01

Prepared: 08/30/2024 Analyzed: 08/31/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	ND	96.7	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	96.9	70-130			
Acenaphthene	0.203	0.020	"	0.200	ND	101	70-130			
Anthracene	0.192	0.020	"	0.200	ND	95.8	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200	ND	96.7	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.3	70-130			
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	100	70-130			
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	ND	98.1	70-130			

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Project Number: 09A1417769
Project: KMG - HSR - Nichols 6-15A Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3040 - EPA 3580

Matrix Spike (B4H3040-MS1)

Source: Y408884-01

Prepared: 08/30/2024 Analyzed: 08/31/2024

Benzo (k) fluoranthene	0.206	0.020	mg/kg	0.200	ND	103	70-130			
Chrysene	0.193	0.020	"	0.200	ND	96.5	70-130			
Dibenz (a,h) anthracene	0.197	0.020	"	0.200	ND	98.5	70-130			
Fluoranthene	0.177	0.020	"	0.200	ND	88.3	70-130			
Fluorene	0.200	0.020	"	0.200	ND	100	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	94.9	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.192	0.020	"	0.200	ND	96.0	70-130			
Pyrene	0.202	0.020	"	0.200	ND	101	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	180		"	200		91.5	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4H3040-MSD1)

Source: Y408884-01

Prepared: 08/30/2024 Analyzed: 08/31/2024

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130	3.53	20	
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.6	70-130	2.76	20	
Acenaphthene	0.208	0.020	"	0.200	ND	104	70-130	2.65	20	
Anthracene	0.193	0.020	"	0.200	ND	96.6	70-130	0.801	20	
Benzo (a) anthracene	0.198	0.005	"	0.200	ND	99.2	70-130	2.55	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130	6.46	20	
Benzo (b) fluoranthene	0.207	0.020	"	0.200	ND	104	70-130	3.34	20	
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	107	70-130	8.19	20	
Benzo (k) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130	0.818	20	
Chrysene	0.201	0.020	"	0.200	ND	101	70-130	4.15	20	
Dibenz (a,h) anthracene	0.214	0.020	"	0.200	ND	107	70-130	8.10	20	
Fluoranthene	0.193	0.020	"	0.200	ND	96.5	70-130	8.92	20	

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417769
Project: KMG - HSR - Nichols 6-15A Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3040 - EPA 3580

Matrix Spike Dup (B4H3040-MSD1)	Source: Y408884-01			Prepared: 08/30/2024 Analyzed: 08/31/2024						
Fluorene	0.212	0.020	mg/kg	0.200	ND	106	70-130	5.75	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	ND	101	70-130	6.69	20	
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	2.66	20	
Phenanthrene	0.197	0.020	"	0.200	ND	98.3	70-130	2.28	20	
Pyrene	0.200	0.020	"	0.200	ND	100	70-130	0.805	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		92.2	60-130			
Surrogate: Pyrene-d10	200		"	200		98.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4I0308 - DTPA Sorbitol Preparation										
Blank (B4I0308-BLK1)					Prepared: 09/03/2024 Analyzed: 09/04/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4I0308-DUP1)		Source: Y408879-01			Prepared: 09/03/2024 Analyzed: 09/04/2024					
Boron	0.0529	0.0994	mg/L		0.0498			6.10	50	
Batch B4I0309 - DTPA Sorbitol Preparation										
Blank (B4I0309-BLK1)					Prepared: 09/03/2024 Analyzed: 09/04/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4I0309-DUP1)		Source: Y408846-01			Prepared: 09/03/2024 Analyzed: 09/04/2024					
Boron	0.591	0.101	mg/L		0.493			18.1	50	
Batch B4I0314 - Saturated Paste Metals										
Blank (B4I0314-BLK1)					Prepared: 09/03/2024 Analyzed: 09/04/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4I0314-DUP1)		Source: Y408883-02			Prepared: 09/03/2024 Analyzed: 09/04/2024					
Calcium PPM	16.7	10.0	mg/L		16.0			4.16	50	
SAR	ND	0.0100	SAR		0.126				200	
Magnesium PPM	5.02	10.0	mg/L		4.84			3.65	50	
Sodium PPM	2.68	10.0	"		2.25			17.4	50	

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Project: KMG - HSR - Nichols 6-15A Wellhead

**Saturated Paste - Quality Control
Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0320 - Saturated Paste pH/EC

Blank (B4I0320-BLK1)

Prepared: 09/03/2024 Analyzed: 09/04/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4I0320-DUP1)

Source: Y408883-02

Prepared: 09/03/2024 Analyzed: 09/04/2024

Specific Conductance (EC)	0.202	0.00500	mmhos/cm		0.204		0.988	25	
pH	8.47		pH Units		8.47		0.00	25	

Batch B4I0324 - Saturated Paste pH/EC

Duplicate (B4I0324-DUP1)

Source: Y408875-03

Prepared: 09/03/2024 Analyzed: 09/03/2024

pH	9.34		pH Units		9.26		0.860	25	
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Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2676796 - SW846 3060A										
BLANK (1205864354-BLK)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.339	mg/kg				-			U
LCS (1205864355-BKS)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.86	0.381	mg/kg	3.81		101	80-120			
DUP (1205864356 D)					Source: Y408884-01 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.392	mg/kg dry		<0.157		0-50	N/A	50	U
MS (1205864357 S)					Source: Y408884-01 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	2.98	0.343	mg/kg dry	3.43	<0.137	84.6	75-125			
DUP (1205864358 D)					Source: Y408884-02 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.381	mg/kg dry		<0.152		0-50	N/A	50	U
MS (1205864359 S)					Source: Y408884-02 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	2.88	0.418	mg/kg dry	4.18	<0.167	67.2	75-125			
ILCS (1205864360-ILCS)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	6.86	0.331	mg/kg	6.66		103	80-120			

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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