

June 17, 2024

Blue Star Helium

Peter Kondrat

5 Tamarade Dr.

Littleton CO 80127

Project Name - Enterprise 16

Project Number - [none]

Attached are your analytical results for Enterprise 16 received by Origins Laboratory, Inc. May 23, 2024. This project is associated with Origins project number Y405712-01.

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



Blue Star Helium

5 Tamarade Dr.

Littleton

CO

80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E16-WH1	Y405712-01	Soil	May 21, 2024 11:23	05/23/2024 15:45
E16-WH2	Y405712-02	Soil	May 21, 2024 11:47	05/23/2024 15:45
E16-WH3	Y405712-03	Soil	May 22, 2024 11:47	05/23/2024 15:45
E16-WH4	Y405712-04	Soil	May 22, 2024 14:57	05/23/2024 15:45
E16-BG1	Y405712-05	Soil	May 22, 2024 14:59	05/23/2024 15:45
E16-BG2	Y405712-06	Soil	May 22, 2024 14:59	05/23/2024 15:45
E16-CT1	Y405712-07	Soil	May 21, 2024 16:55	05/23/2024 15:45
E16-CT2	Y405712-08	Soil	May 21, 2024 16:53	05/23/2024 15:45

Origins Laboratory, Inc.



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Blue Star Helium

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80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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

ORIGINS
LABORATORY, INC

4405712

www.originslaboratory.com

page 1 of 1

Client: Blue Star Helium

Address: 2011 Forest Ave Durango CO 81301

Project Manager: Peter Kondrat

Project Name: Enterprise 16

Project Number:

Telephone Number: 970-759-5370

Email Address: pkondrat@bluestarhelium.com

Samples Collected By: pkondrat@bluestarhelium.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa Canister #		
E16-WH1	5/21/24	11:23					X			wellhead spoil	ECMC Table 915-1 1
E16-WH2	5/21/24	11:47					X			wellhead spoil	ECMC Table 915-1 2
E16-WH3	5/22/24	11:47					X			wellhead clean	ECMC Table 915-1 3
E16-WH4	5/22/24	14:57					X			wellhead clean	ECMC Table 915-1 4
E16-BG1	5/22/24	14:59					X			Background soil	ECMC Table 915-1 5
E16-BG2	5/22/24	14:59					X			Background soil	ECMC Table 915-1 6
E16-CT1	5/21/24	16:55					X			Cuttings Trench	ECMC Table 915-1 7
E16-CT2	5/21/24	16:53					X			Cuttings Trench	ECMC Table 915-1 8
											9
											10
Relinquished By: Andy Weygant	Date: 5/23/2024	Time: 1545									
Received By: [Signature]	Date: 5/23/24	Time: 1545									
Relinquished By:	Date:	Time:									
Received By:	Date:	Time:									
Turnaround Time:	Same Day	24 Hr									
Standard	48 Hr	72 Hr									

Date Results Needed

Origins Laboratory, Inc.

[Signature]

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CO

80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 440572

Client: BlueStar

Client Project ID: Enterprise 16

Checklist Completed by: WJ/SAO

Shipped Via: TWD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/23/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 20 °C _____ °C _____ °C (Describe)

Thermometer ID: 7005

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): <u>Received in non lab approved container w/ metal cap.</u>				

⁽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) WJ

5/23/24
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH1

5/21/2024 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.568	0.0982	mg/L	1	B4E2408	05/24/2024	05/28/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1000	25.0	mg/kg	1	B4E2421	05/24/2024	05/30/2024
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Residual Range Organics (C28-C40)	2270	100	"	"	"	"	"
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Surrogate: o-Terphenyl	94.4 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2423	05/24/2024	05/26/2024	Ua
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1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
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Benzene	ND	0.00200	"	"	"	"	"	Ua
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Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
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Toluene	ND	0.00200	"	"	"	"	"	Ua
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Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
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Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua
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Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"	"	"
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Surrogate: Toluene-d8	98.6 %	70-130	"	"	"	"	"
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Project Number: [none]

Project: Enterprise 16

E16-WH1

5/21/2024 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 107 % 70-130 B4E24 23 05/24/2024 05/26/2024

Metals by Saturated Paste by EPA 6010

Calcium	22.0	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024
Magnesium	3.70	0.823	"	"	"	"	"
Sodium	4.77	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.327	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024
2-Methylnaphthalene	0.337	0.002	"	"	"	"	"
Acenaphthene	0.024	0.020	"	"	"	"	"
Anthracene	0.028	0.020	"	"	"	"	"
Benzo (a) anthracene	0.023	0.005	"	"	"	"	"
Benzo (a) pyrene	ND	0.020	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	Ua
Chrysene	0.045	0.020	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	Ua
Fluoranthene	0.060	0.020	"	"	"	"	"
Fluorene	ND	0.020	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	Ua

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Project Number: [none]

Project: Enterprise 16

E16-WH1

5/21/2024 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-01 (Soil)

PAH by EPA 8270E

Naphthalene	0.064	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024
Pyrene	0.067	0.020	"	"	"	"	"

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	118 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	113 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.06	pH Units	1	B4E2414	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	1.33	0.0100	SAR	1	B4E2404	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.26	0.00500	mmhos/cm	1	B4E2414	05/24/2024	05/29/2024
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Table 915 metals by EPA 6020B

Arsenic	12.5	0.273	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Barium	128	9.40	"	"	"	"	"
Cadmium	0.333	0.0940	"	"	"	"	"

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Project Number: [none]

Project: Enterprise 16

E16-WH1

5/21/2024 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-01 (Soil)

Table 915 metals by EPA 6020B

Copper	40.5	9.40	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Lead	22.8	0.940	"	"	"	"	"
Nickel	23.7	0.940	"	"	"	"	"
Selenium	1.16	0.244	"	"	"	"	"
Silver	0.248	0.0940	"	"	"	"	"
Zinc	99.5	34.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.169	0.423	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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Blue Star Helium

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Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH2

5/21/2024 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.431	0.0998	mg/L	1	B4E2408	05/24/2024	05/28/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	473	25.0	mg/kg	1	B4E2421	05/24/2024	05/30/2024
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Residual Range Organics (C28-C40)	971	100	"	"	"	"	"
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Surrogate: o-Terphenyl	95.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2423	05/24/2024	05/26/2024	Ua
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1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
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Benzene	ND	0.00200	"	"	"	"	"	Ua
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Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
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Toluene	ND	0.00200	"	"	"	"	"	Ua
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Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
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Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua
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Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
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Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
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Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH2

5/21/2024 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	108 %	70-130	B4E24 23	05/24/2024	05/26/2024
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Metals by Saturated Paste by EPA 6010

Calcium	23.9	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024
Magnesium	3.21	0.823	"	"	"	"	"
Sodium	6.89	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.433	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024	
2-Methylnaphthalene	0.554	0.002	"	"	"	"	"	
Acenaphthene	0.025	0.020	"	"	"	"	"	
Anthracene	0.028	0.020	"	"	"	"	"	
Benzo (a) anthracene	0.076	0.005	"	"	"	"	"	
Benzo (a) pyrene	0.030	0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.055	0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.024	0.020	"	"	"	"	"	
Chrysene	0.135	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	0.274	0.020	"	"	"	"	"	
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua

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5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH2

5/21/2024 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-02 (Soil)

PAH by EPA 8270E

Naphthalene	0.100	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024
Pyrene	0.260	0.020	"	"	"	"	"

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	108 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	80.6 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.75	pH Units	1	B4E2414	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	1.87	0.0100	SAR	1	B4E2404	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.62	0.00500	mmhos/cm	1	B4E2414	05/24/2024	05/29/2024
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Table 915 metals by EPA 6020B

Arsenic	8.70	0.279	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Barium	118	9.61	"	"	"	"	"
Cadmium	0.317	0.0961	"	"	"	"	"

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5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH2

5/21/2024 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-02 (Soil)

Table 915 metals by EPA 6020B

Copper	35.4	9.61	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Lead	13.3	0.961	"	"	"	"	"
Nickel	19.4	0.961	"	"	"	"	"
Selenium	1.22	0.250	"	"	"	"	"
Silver	ND	0.0961	"	"	"	"	"
Zinc	65.3	35.6	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.140	0.350	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH3

5/22/2024 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.330	0.0993	mg/L	1	B4E2409	05/24/2024	05/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2421	05/24/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.3 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2423	05/24/2024	05/26/2024	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	105 %	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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH3

5/22/2024 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.4 %	70-130	B4E24 23	05/24/2024	05/26/2024
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	5.96	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.77	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024	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

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH3

5/22/2024 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2418	05/24/2024	06/01/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	116 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.15	pH Units	1	B4E2414	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	0.979	0.0100	SAR	1	B4E2404	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.870	0.00500	mmhos/cm	1	B4E2414	05/24/2024	05/29/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH3

5/22/2024 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	8.73	0.270	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Barium	143	9.30	"	"	"	"	"
Cadmium	0.268	0.0930	"	"	"	"	"
Copper	16.5	9.30	"	"	"	"	"
Lead	13.5	0.930	"	"	"	"	"
Nickel	20.0	0.930	"	"	"	"	"
Selenium	0.875	0.242	"	"	"	"	"
Silver	ND	0.0930	"	"	"	"	"
Zinc	73.0	34.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.172	0.430	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH4

5/22/2024 2:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.412	0.101	mg/L	1	B4E2409	05/24/2024	05/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2421	05/24/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.6 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2423	05/24/2024	05/26/2024	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	107 %	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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH4

5/22/2024 2:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130				B4E24 23	05/24/2024	05/26/2024	
Surrogate: 4-Bromofluorobenzene	106 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.14	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	1.20	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024	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

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH4

5/22/2024 2:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-04 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2418	05/24/2024	06/01/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.06	pH Units	1	B4E2415	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	0.796	0.0100	SAR	1	B4E2405	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.931	0.00500	mmhos/cm	1	B4E3119	05/31/2024	06/01/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-WH4

5/22/2024 2:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	10.1	0.290	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Barium	142	9.98	"	"	"	"	"
Cadmium	0.307	0.0998	"	"	"	"	"
Copper	17.6	9.98	"	"	"	"	"
Lead	15.1	0.998	"	"	"	"	"
Nickel	20.0	0.998	"	"	"	"	"
Selenium	1.14	0.260	"	"	"	"	"
Silver	ND	0.0998	"	"	"	"	"
Zinc	73.9	36.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.129	0.323	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-BG1

5/22/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.918	0.102	mg/L	1	B4E2409	05/24/2024	05/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2421	05/24/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

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	B4E2423	05/24/2024	05/26/2024	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	109 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-BG1

5/22/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.9 %	70-130				B4E24 23	05/24/2024	05/26/2024	
Surrogate: 4-Bromofluorobenzene	105 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	11.4	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024	
Magnesium	1.01	0.823	"	"	"	"	"	
Sodium	0.622	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024	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

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-BG1

5/22/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-05 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2418	05/24/2024	06/01/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	91.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.14	pH Units	1	B4E2415	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	0.249	0.0100	SAR	1	B4E2405	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.46	0.00500	mmhos/cm	1	B4E3119	05/31/2024	06/01/2024
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Table 915 metals by EPA 6020B

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-BG1

5/22/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	10.2	0.281	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Barium	194	9.70	"	"	"	"	"
Cadmium	0.331	0.0970	"	"	"	"	"
Copper	19.7	9.70	"	"	"	"	"
Lead	15.2	0.970	"	"	"	"	"
Nickel	24.2	0.970	"	"	"	"	"
Selenium	1.08	0.252	"	"	"	"	"
Silver	ND	0.0970	"	"	"	"	"
Zinc	83.6	35.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.0895	0.224	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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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.

Blue Star Helium

5 Tamarade Dr.

Littleton

CO

80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-BG2

5/22/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.862	0.100	mg/L	1	B4E2409	05/24/2024	05/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2421	05/24/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.9 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2423	05/24/2024	05/28/2024	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	116 %	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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-BG2

5/22/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.8 %	70-130	B4E24 23	05/24/2024	05/28/2024
Surrogate: 4-Bromofluorobenzene	121 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	10.6	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024
Magnesium	0.917	0.823	"	"	"	"	"
Sodium	0.567	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024	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

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-BG2

5/22/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-06 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2418	05/24/2024	06/01/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	89.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.06	pH Units	1	B4E2415	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	0.236	0.0100	SAR	1	B4E2405	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.35	0.00500	mmhos/cm	1	B4E3119	05/31/2024	06/01/2024
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Table 915 metals by EPA 6020B

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-BG2

5/22/2024 2:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	9.78	0.264	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Barium	198	9.10	"	"	"	"	"
Cadmium	0.350	0.0910	"	"	"	"	"
Copper	21.0	9.10	"	"	"	"	"
Lead	16.9	0.910	"	"	"	"	"
Nickel	26.3	0.910	"	"	"	"	"
Selenium	0.931	0.237	"	"	"	"	"
Silver	ND	0.0910	"	"	"	"	"
Zinc	87.4	33.7	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.157	0.392	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-CT1

5/21/2024 4:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.731	0.101	mg/L	1	B4E2409	05/24/2024	05/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2421	05/24/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.0 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2423	05/24/2024	05/28/2024	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	104 %	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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-CT1

5/21/2024 4:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.8 %	70-130	B4E24 23	05/24/2024	05/28/2024
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	26.0	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024
Magnesium	2.55	0.823	"	"	"	"	"
Sodium	7.57	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2418	05/24/2024	06/03/2024	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

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton

CO

80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-CT1

5/21/2024 4:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-07 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2418	05/24/2024	06/03/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.01	pH Units	1	B4E2415	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	2.00	0.0100	SAR	1	B4E2405	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.63	0.00500	mmhos/cm	1	B4E3119	05/31/2024	06/01/2024
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Table 915 metals by EPA 6020B

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-CT1

5/21/2024 4:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	8.65	0.246	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Barium	168	8.48	"	"	"	"	"
Cadmium	0.211	0.0848	"	"	"	"	"
Copper	16.2	8.48	"	"	"	"	"
Lead	15.2	0.848	"	"	"	"	"
Nickel	18.3	0.848	"	"	"	"	"
Selenium	1.09	0.220	"	"	"	"	"
Silver	ND	0.0848	"	"	"	"	"
Zinc	74.0	31.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.118	0.295	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-CT2

5/21/2024 4:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.804	0.101	mg/L	1	B4E2409	05/24/2024	05/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2421	05/24/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2423	05/24/2024	05/28/2024	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	115 %	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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-CT2

5/21/2024 4:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.1 %	70-130	B4E24 23	05/24/2024	05/28/2024
Surrogate: 4-Bromofluorobenzene	110 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	18.3	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024
Magnesium	1.33	0.823	"	"	"	"	"
Sodium	6.01	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2418	05/24/2024	06/01/2024	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

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-CT2

5/21/2024 4:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-08 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2418	05/24/2024	06/01/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.16	pH Units	1	B4E2415	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	1.92	0.0100	SAR	1	B4E2405	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.38	0.00500	mmhos/cm	1	B4E3119	05/31/2024	06/01/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

E16-CT2

5/21/2024 4:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405712-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	8.49	0.268	mg/kg	10	B4E2343	05/24/2024	05/28/2024
Barium	182	9.25	"	"	"	"	"
Cadmium	0.217	0.0925	"	"	"	"	"
Copper	17.7	9.25	"	"	"	"	"
Lead	15.1	0.925	"	"	"	"	"
Nickel	19.4	0.925	"	"	"	"	"
Selenium	1.26	0.241	"	"	"	"	"
Silver	ND	0.0925	"	"	"	"	"
Zinc	73.0	34.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.153	0.381	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 B4E2421 - EPA 3550B										
Blank (B4E2421-BLK1)					Prepared: 05/24/2024 Analyzed: 05/30/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		94.1	50-150			

Origins Laboratory, Inc.



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Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 B4E2421 - EPA 3550B

LCS (B4E2421-BS1)

Prepared: 05/24/2024 Analyzed: 05/30/2024

Diesel (C10-C28)	942	50.0	mg/kg	1000		94.2	70-130			
Residual Range Organics (C28-C40)	855	200	"	1000		85.5	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 B4E2421 - EPA 3550B

Matrix Spike (B4E2421-MS1)		Source: Y405712-01			Prepared: 05/24/2024 Analyzed: 05/30/2024					
Diesel (C10-C28)	1870	50.0	mg/kg	1000	1000	87.0	70-130			
Residual Range Organics (C28-C40)	3310	200	"	1000	2270	104	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.0	50-150			

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 B4E2421 - EPA 3550B

Matrix Spike Dup (B4E2421-MSD1)		Source: Y405712-01			Prepared: 05/24/2024 Analyzed: 05/30/2024					
Diesel (C10-C28)	1840	50.0	mg/kg	1000	1000	83.1	70-130	2.06	35	
Residual Range Organics (C28-C40)	3390	200	"	1000	2270	112	70-130	2.37	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 B4E2423 - EPA 5030 (soil)

Blank (B4E2423-BLK1)

Prepared: 05/24/2024 Analyzed: 05/26/2024

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	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 B4E2423 - EPA 5030 (soil)

LCS (B4E2423-BS1)

Prepared: 05/24/2024 Analyzed: 05/26/2024

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0852	0.00380	"	0.100		85.2	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.0990	0.00200	"	0.100		99.0	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 B4E2423 - EPA 5030 (soil)

Matrix Spike (B4E2423-MS1)		Source: Y405691-01			Prepared: 05/24/2024 Analyzed: 05/26/2024					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.0693	0.00380	"	0.100	ND	69.3	70-130			QM-07
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.6	70-130			

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Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 B4E2423 - EPA 5030 (soil)

Matrix Spike Dup (B4E2423-MSD1)		Source: Y405691-01			Prepared: 05/24/2024 Analyzed: 05/26/2024					
1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100	ND	96.9	70-130	5.87	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	4.79	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	2.04	20	
Ethylbenzene	0.0972	0.00200	"	0.100	ND	97.2	70-130	5.66	20	
Naphthalene	0.0785	0.00380	"	0.100	ND	78.5	70-130	12.5	20	
Toluene	0.0964	0.00200	"	0.100	ND	96.4	70-130	3.67	20	
o-Xylene	0.0961	0.00200	"	0.100	ND	96.1	70-130	3.90	20	
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.1	70-130	4.98	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

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Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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 EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2343 - EPA 3050B

Blank (B4E2343-BLK1)

Prepared: 05/24/2024 Analyzed: 05/28/2024

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 (B4E2343-BS1)

Prepared: 05/24/2024 Analyzed: 05/28/2024

Arsenic	5.48	0.290	mg/kg	5.00	110	80-120
Barium	596	10.0	"	500	119	80-120
Cadmium	5.72	0.100	"	5.00	114	80-120
Copper	56.6	10.0	"	50.0	113	80-120
Lead	5.61	1.00	"	5.00	112	80-120
Nickel	5.67	1.00	"	5.00	113	80-120
Selenium	10.6	0.260	"	9.50	112	80-120
Silver	5.62	0.100	"	5.00	112	80-120
Zinc	56.7	37.0	"	50.0	113	80-120

Matrix Spike (B4E2343-MS1)

Source: Y405711-01

Prepared: 05/24/2024 Analyzed: 05/28/2024

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Peter Kondrat

Project Number: [none]

Project: Enterprise 16

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2343 - EPA 3050B

Matrix Spike (B4E2343-MS1)		Source: Y405711-01			Prepared: 05/24/2024 Analyzed: 05/28/2024					
Arsenic	7.52	0.263	mg/kg	4.53	2.69	107	75-125			
Barium	700	9.07	"	453	150	121	75-125			
Cadmium	5.38	0.0907	"	4.53	0.189	115	75-125			
Copper	61.6	9.07	"	45.3	13.0	107	75-125			
Lead	12.6	0.907	"	4.53	7.48	113	75-125			
Nickel	22.7	0.907	"	4.53	17.5	115	75-125			
Selenium	10.4	0.236	"	8.61	0.602	113	75-125			
Silver	5.08	0.0907	"	4.53	0.0467	111	75-125			
Zinc	102	33.6	"	45.3	52.4	110	75-125			
Matrix Spike Dup (B4E2343-MSD1)		Source: Y405711-01			Prepared: 05/24/2024 Analyzed: 05/28/2024					
Arsenic	7.65	0.251	mg/kg	4.34	2.69	114	75-125	1.69	20	
Barium	684	8.67	"	434	150	123	75-125	2.27	20	
Cadmium	5.39	0.0867	"	4.34	0.189	120	75-125	0.109	20	
Copper	61.5	8.67	"	43.4	13.0	112	75-125	0.200	20	
Lead	12.8	0.867	"	4.34	7.48	123	75-125	1.69	20	
Nickel	23.3	0.867	"	4.34	17.5	134	75-125	2.57	20	
Selenium	9.68	0.225	"	8.24	0.602	110	75-125	6.79	20	
Silver	5.14	0.0867	"	4.34	0.0467	118	75-125	1.15	20	
Zinc	106	32.1	"	43.4	52.4	123	75-125	3.14	20	

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Peter Kondrat
Project Number: [none]
Project: Enterprise 16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2418 - EPA 3580

Blank (B4E2418-BLK1)

Prepared: 05/24/2024 Analyzed: 06/01/2024

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	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Pyrene-d10	190		"	200		93.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		92.6	60-130			

LCS (B4E2418-BS1)

Prepared: 05/24/2024 Analyzed: 06/03/2024

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200		95.4	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		95.1	70-130			
Acenaphthene	0.193	0.020	"	0.200		96.7	70-130			
Anthracene	0.190	0.020	"	0.200		95.0	70-130			

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Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2418 - EPA 3580

LCS (B4E2418-BS1)

Prepared: 05/24/2024 Analyzed: 06/03/2024

Benzo (a) anthracene	0.207	0.005	mg/kg	0.200		104	70-130
Benzo (a) pyrene	0.199	0.020	"	0.200		99.4	70-130
Benzo (b) fluoranthene	0.179	0.020	"	0.200		89.3	70-130
Benzo (g,h,i) perylene	0.181	0.020	"	0.200		90.5	70-130
Benzo (k) fluoranthene	0.163	0.020	"	0.200		81.7	70-130
Chrysene	0.200	0.020	"	0.200		100	70-130
Dibenz (a,h) anthracene	0.175	0.020	"	0.200		87.5	70-130
Fluoranthene	0.185	0.020	"	0.200		92.3	70-130
Fluorene	0.202	0.020	"	0.200		101	70-130
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200		89.0	70-130
Naphthalene	0.197	0.002	"	0.200		98.3	70-130
Phenanthrene	0.189	0.020	"	0.200		94.5	70-130
Pyrene	0.184	0.020	"	0.200		92.2	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130
Surrogate: Anthracene-d10	190		"	200		95.5	60-130
Surrogate: Pyrene-d10	180		"	200		91.4	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130

Matrix Spike (B4E2418-MS1)

Source: Y405711-01

Prepared: 05/24/2024 Analyzed: 06/03/2024

1-Methylnaphthalene	0.146	0.002	mg/kg	0.200	0.002	72.1	70-130
2-Methylnaphthalene	0.155	0.002	"	0.200	ND	77.4	70-130
Acenaphthene	0.146	0.020	"	0.200	0.0007	72.8	70-130
Anthracene	0.144	0.020	"	0.200	ND	72.0	70-130
Benzo (a) anthracene	0.153	0.005	"	0.200	0.001	75.8	70-130
Benzo (a) pyrene	0.168	0.020	"	0.200	0.003	82.5	70-130
Benzo (b) fluoranthene	0.158	0.020	"	0.200	0.002	77.7	70-130
Benzo (g,h,i) perylene	0.143	0.020	"	0.200	0.003	70.4	70-130

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Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2418 - EPA 3580

Matrix Spike (B4E2418-MS1)		Source: Y405711-01			Prepared: 05/24/2024 Analyzed: 06/03/2024					
Benzo (k) fluoranthene	0.153	0.020	mg/kg	0.200	0.003	75.2	70-130			
Chrysene	0.148	0.020	"	0.200	0.002	73.0	70-130			
Dibenz (a,h) anthracene	0.147	0.020	"	0.200	0.004	71.5	70-130			
Fluoranthene	0.146	0.020	"	0.200	0.001	72.5	70-130			
Fluorene	0.146	0.020	"	0.200	0.003	71.5	70-130			
Indeno (1,2,3-cd) pyrene	0.154	0.020	"	0.200	0.003	75.5	70-130			
Naphthalene	0.153	0.002	"	0.200	ND	76.3	70-130			
Phenanthrene	0.144	0.020	"	0.200	ND	71.9	70-130			
Pyrene	0.150	0.020	"	0.200	0.0008	74.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.9	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

Matrix Spike Dup (B4E2418-MSD1)		Source: Y405711-01			Prepared: 05/24/2024 Analyzed: 06/01/2024					
1-Methylnaphthalene	0.168	0.002	mg/kg	0.200	0.002	83.0	70-130	13.9	20	
2-Methylnaphthalene	0.167	0.002	"	0.200	ND	83.5	70-130	7.60	20	
Acenaphthene	0.168	0.020	"	0.200	0.0007	83.6	70-130	13.7	20	
Anthracene	0.178	0.020	"	0.200	ND	89.2	70-130	21.4	20	QR-02
Benzo (a) anthracene	0.183	0.005	"	0.200	0.001	90.6	70-130	17.6	20	
Benzo (a) pyrene	0.188	0.020	"	0.200	0.003	92.2	70-130	10.8	20	
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.002	101	70-130	25.2	20	QR-02
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	0.003	96.6	70-130	30.9	20	QR-02
Benzo (k) fluoranthene	0.184	0.020	"	0.200	0.003	90.9	70-130	18.6	20	
Chrysene	0.178	0.020	"	0.200	0.002	88.0	70-130	18.4	20	
Dibenz (a,h) anthracene	0.154	0.020	"	0.200	0.004	74.9	70-130	4.61	20	
Fluoranthene	0.192	0.020	"	0.200	0.001	95.4	70-130	27.1	20	QR-02

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Peter Kondrat

Project Number: [none]

Project: Enterprise 16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2418 - EPA 3580

Matrix Spike Dup (B4E2418-MSD1)		Source: Y405711-01			Prepared: 05/24/2024 Analyzed: 06/01/2024					
Fluorene	0.163	0.020	mg/kg	0.200	0.003	80.1	70-130	11.2	20	
Indeno (1,2,3-cd) pyrene	0.168	0.020	"	0.200	0.003	82.6	70-130	8.90	20	
Naphthalene	0.177	0.002	"	0.200	ND	88.5	70-130	14.8	20	
Phenanthrene	0.177	0.020	"	0.200	ND	88.7	70-130	20.9	20	QR-02
Pyrene	0.175	0.020	"	0.200	0.0008	87.2	70-130	15.3	20	
Surrogate: Fluorene-d10	190		ug/kg	200		93.6	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

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Peter Kondrat
Project Number: [none]
Project: Enterprise 16

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2404 - Saturated Paste Metals

Blank (B4E2404-BLK1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

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

Duplicate (B4E2404-DUP1)

Source: Y405691-01

Prepared: 05/24/2024 Analyzed: 05/29/2024

Calcium PPM	145	10.0	mg/L	94.5	42.4	50
SAR	ND	0.0100	SAR	10.1	200	
Magnesium PPM	76.4	10.0	mg/L	52.7	36.8	50
Sodium PPM	571	10.0	"	495	14.3	50

Batch B4E2405 - Saturated Paste Metals

Blank (B4E2405-BLK1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

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

Duplicate (B4E2405-DUP1)

Source: Y405712-04

Prepared: 05/24/2024 Analyzed: 05/29/2024

SAR	ND	0.0100	SAR	0.796	200	
Calcium PPM	83.1	10.0	mg/L	83.0	0.132	50
Magnesium PPM	4.74	10.0	"	4.97	4.74	50
Sodium PPM	32.8	10.0	"	27.6	17.0	50

Batch B4E2408 - DTPA Sorbitol Preparation

Blank (B4E2408-BLK1)

Prepared: 05/24/2024 Analyzed: 05/28/2024

Origins Laboratory, Inc.



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Peter Kondrat
Project Number: [none]
Project: Enterprise 16

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E2408 - DTPA Sorbitol Preparation										
Blank (B4E2408-BLK1)					Prepared: 05/24/2024 Analyzed: 05/28/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4E2408-DUP1)					Source: Y405691-01 Prepared: 05/24/2024 Analyzed: 05/28/2024					
Boron	0.736	0.0993	mg/L		0.739			0.430	50	
Batch B4E2409 - DTPA Sorbitol Preparation										
Blank (B4E2409-BLK1)					Prepared: 05/24/2024 Analyzed: 05/28/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4E2409-DUP1)					Source: Y405712-03 Prepared: 05/24/2024 Analyzed: 05/28/2024					
Boron	0.405	0.0985	mg/L		0.330			20.2	50	

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Project: Enterprise 16

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E2414 - Saturated Paste pH/EC										
Blank (B4E2414-BLK1)					Prepared: 05/24/2024 Analyzed: 05/30/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E2414-DUP1)					Source: Y405691-01 Prepared: 05/24/2024 Analyzed: 05/29/2024					
Specific Conductance (EC)	3.37	0.00500	mmhos/cm		2.58			26.7	25	QR-DUP
pH	7.77		pH Units		7.73			0.516	25	
Batch B4E2415 - Saturated Paste pH/EC										
Duplicate (B4E2415-DUP1)					Source: Y405712-04 Prepared: 05/24/2024 Analyzed: 05/29/2024					
pH	8.14		pH Units		8.06			0.988	25	
Batch B4E3119 - Saturated Paste pH/EC										
Blank (B4E3119-BLK1)					Prepared: 05/31/2024 Analyzed: 06/01/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E3119-DUP1)					Source: Y404496-02 Prepared: 05/31/2024 Analyzed: 06/01/2024					
Specific Conductance (EC)	0.284	0.00500	mmhos/cm		0.315			10.1	25	

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Project: Enterprise 16

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2625948 - SW846 3060A										
BLANK (1205760168-BLK)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.274	mg/kg				-			U
LCS (1205760169-BKS)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	3.17	0.316	mg/kg	3.16		100	80-120			
DUP (1205760170 D)					Source: Y405712-01 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.423	mg/kg dry		<0.169		0-50	N/A	50	U
MS (1205760171 S)					Source: Y405712-01 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	3.45	0.423	mg/kg dry	4.23	<0.169	79.3	75-125			
DUP (1205760172 D)					Source: 670394001 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.321	mg/kg dry		<0.128		0-50	N/A	50	U
MS (1205760173 S)					Source: 670394001 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	1.74	0.321	mg/kg dry	3.21	<0.128	51.8	75-125			
ILCS (1205760174-ILCS)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	4.60	0.224	mg/kg	4.61		99.8	80-120			

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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.

Blue Star Helium

5 Tamarade Dr.

Littleton CO 80127

Peter Kondrat

Project Number: [none]

Project: Enterprise 16

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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