



April 22, 2024

A.G. Wassenaar

Rachel Peterson

3211 South Zuni St

Englewood CO 80110

Project Name - Searchers

Project Number - 171162

Attached are your analytical results for Searchers received by Origins Laboratory, Inc. March 21, 2024. This project is associated with Origins project number Y403605-01.

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



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Rachel Peterson
Project Number: 171162
Project: Searchers

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Seachers-WH	Y403605-01	Soil	March 21, 2024 0:00	03/21/2024 16:17

Origins Laboratory, Inc.



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Rachel Peterson
Project Number: 171162
Project: Searchers

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LABORATORY, INC

www.originslaboratory.com

page of

Client: AGW

Address: 3211 S Juni

Telephone Number: 313-59-8373

Email Address: Peterson.R@AGWCO.com

Taylor.C@AGWCO.com

44036005

Project Manager: RAP

Project Name: Searchers

Project Number: 171162

Samples Collected By: CTT

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
Searchers-WH	3/21/24		4	X					X		X Table 915-1	1
												2
												3
												4
												5
												6
												7
												8
												9
												10
Relinquished By: <u>[Signature]</u>	Date: <u>3/21/24</u>	Time: <u>10A</u>	Received By: <u>[Signature]</u>	Date: <u>3/21/24</u>	Time: <u>10A</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard						
Relinquished By: <u>[Signature]</u>	Date: <u>3/21/24</u>	Time: <u>10A</u>	Received By: <u>[Signature]</u>	Date: <u>3/21/24</u>	Time: <u>10A</u>							

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Temp Received- 7

Date Results Needed

Origins Laboratory, Inc.

Byron

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Rachel Peterson
Project Number: 171162
Project: Searchers

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y403605 Client: AGW
Client Project ID: Searchers

Checklist Completed by: ETH Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 3/21/24 Airbill #: N/A

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

Cooler Number/Temperature: 118 °C 1 °C 1 °C
Thermometer ID: 1004

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 checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽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"/>		<u>no times</u>
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by: JP (Project Manager) Date/Time Reviewed: 3/25/24

Origins Laboratory, Inc.

J. Bynon

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3211 South Zuni St
Englewood CO 80110

Rachel Peterson
Project Number: 171162
Project: Searchers

Seachers-WH

3/21/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y403605-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.01	mg/L	10	B4C2516	03/25/2024	03/29/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2201	03/22/2024	03/26/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.4 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2160	03/21/2024	03/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
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Seachers-WH

3/21/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y403605-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130				B4C21 60	03/21/2024	03/26/2024	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.22	0.499	meq/L	10	[CALC]	03/25/2024	03/28/2024	
Magnesium	1.01	0.823	"	"	"	"	"	
Sodium	2.56	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2222	03/22/2024	03/27/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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Seachers-WH

3/21/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y403605-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4C2222	03/22/2024	03/27/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	118 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.33	pH Units	1	B4C2520	03/25/2024	03/26/2024
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SAR by 20B Saturated Paste

SAR	2.02	0.0100	SAR	1	B4C2506	03/25/2024	03/28/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.655	0.00500	mmhos/cm	1	B4C2520	03/25/2024	03/26/2024
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Table 915 metals by EPA 6020B

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Seachers-WH

3/21/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y403605-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.96	0.262	mg/kg	10	B4C2229	03/22/2024	03/28/2024
Barium	203	9.04	"	"	"	"	"
Cadmium	ND	0.0904	"	"	"	"	"
Copper	10.9	9.04	"	"	"	"	"
Lead	11.2	0.904	"	"	"	"	"
Nickel	12.9	0.904	"	"	"	"	"
Selenium	ND	0.235	"	"	"	"	"
Silver	ND	0.0904	"	"	"	"	"
Zinc	48.4	33.4	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L744977	03/21/2024	04/18/2024
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2160 - EPA 5030 (soil)										
Blank (B4C2160-BLK1)					Prepared: 03/21/2024 Analyzed: 03/25/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2160 - EPA 5030 (soil)										
LCS (B4C2160-BS1)					Prepared: 03/21/2024 Analyzed: 03/25/2024					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.4	70-130			

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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 B4C2160 - EPA 5030 (soil)

Matrix Spike (B4C2160-MS1)		Source: Y403647-01			Prepared: 03/21/2024 Analyzed: 03/25/2024					
1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100	ND	109	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Benzene	0.109	0.00200	"	0.100	ND	109	70-130			
Ethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130			
Naphthalene	0.0960	0.00380	"	0.100	ND	96.0	70-130			
Toluene	0.112	0.00200	"	0.100	ND	112	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.233	0.00400	"	0.200	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2160 - EPA 5030 (soil)										
Matrix Spike Dup (B4C2160-MSD1)			Source: Y403647-01		Prepared: 03/21/2024 Analyzed: 03/25/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	3.72	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	5.13	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	1.85	20	
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	5.76	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	6.67	20	
Toluene	0.110	0.00200	"	0.100	ND	110	70-130	1.82	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	4.81	20	
m,p-Xylene	0.223	0.00400	"	0.200	ND	111	70-130	4.69	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

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Project Number: 171162
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2201 - EPA 3550B										
Blank (B4C2201-BLK1)					Prepared: 03/22/2024 Analyzed: 03/26/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.1	50-150			

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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 B4C2201 - EPA 3550B

LCS (B4C2201-BS1)

Prepared: 03/22/2024 Analyzed: 03/26/2024

Diesel (C10-C28)	794	50.0	mg/kg	1000		79.4	70-130			
Residual Range Organics (C28-C40)	807	200	"	1000		80.7	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.3	50-150			

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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 B4C2201 - EPA 3550B										
Matrix Spike (B4C2201-MS1)		Source: Y403568-01			Prepared: 03/22/2024 Analyzed: 03/26/2024					
Diesel (C10-C28)	773	50.0	mg/kg	1000	ND	77.3	70-130			
Residual Range Organics (C28-C40)	793	200	"	1000	ND	79.3	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.7	50-150			

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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 B4C2201 - EPA 3550B										
Matrix Spike Dup (B4C2201-MSD1)		Source: Y403568-01			Prepared: 03/22/2024 Analyzed: 03/26/2024					
Diesel (C10-C28)	754	50.0	mg/kg	1000	ND	75.4	70-130	2.51	35	
Residual Range Organics (C28-C40)	781	200	"	1000	ND	78.1	70-130	1.55	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control

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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 B4C2229 - EPA 3050B

Blank (B4C2229-BLK1)

Prepared: 03/22/2024 Analyzed: 03/28/2024

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 (B4C2229-BS1)

Prepared: 03/22/2024 Analyzed: 03/28/2024

Arsenic	4.67	0.290	mg/kg	5.00	93.5	80-120
Barium	477	10.0	"	500	95.3	80-120
Cadmium	4.62	0.100	"	5.00	92.5	80-120
Copper	47.8	10.0	"	50.0	95.6	80-120
Lead	4.41	1.00	"	5.00	88.2	80-120
Nickel	4.46	1.00	"	5.00	89.1	80-120
Selenium	10.7	0.260	"	9.50	113	80-120
Silver	4.47	0.100	"	5.00	89.4	80-120
Zinc	48.0	37.0	"	50.0	96.0	80-120

Matrix Spike (B4C2229-MS1)

Source: Y403608-01

Prepared: 03/22/2024 Analyzed: 03/28/2024

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Project Number: 171162
Project: Searchers

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 B4C2229 - EPA 3050B

Matrix Spike (B4C2229-MS1)		Source: Y403608-01			Prepared: 03/22/2024 Analyzed: 03/28/2024					
Arsenic	9.19	0.280	mg/kg	4.83	3.86	110	75-125			
Barium	614	9.67	"	483	141	98.0	75-125			
Cadmium	4.67	0.0967	"	4.83	ND	96.7	75-125			
Copper	58.4	9.67	"	48.3	10.7	98.8	75-125			
Lead	17.2	0.967	"	4.83	12.0	107	75-125			
Nickel	16.8	0.967	"	4.83	11.6	108	75-125			
Selenium	10.0	0.251	"	9.18	ND	109	75-125			
Silver	4.16	0.0967	"	4.83	ND	86.2	75-125			
Zinc	102	35.8	"	48.3	51.8	103	75-125			
Matrix Spike Dup (B4C2229-MSD1)		Source: Y403608-01			Prepared: 03/22/2024 Analyzed: 03/28/2024					
Arsenic	8.47	0.264	mg/kg	4.55	3.86	102	75-125	8.06	20	
Barium	589	9.09	"	455	141	98.6	75-125	4.15	20	
Cadmium	4.53	0.0909	"	4.55	ND	99.7	75-125	3.02	20	
Copper	54.4	9.09	"	45.5	10.7	96.3	75-125	7.09	20	
Lead	16.6	0.909	"	4.55	12.0	100	75-125	3.60	20	
Nickel	16.3	0.909	"	4.55	11.6	103	75-125	3.26	20	
Selenium	9.41	0.236	"	8.64	ND	109	75-125	6.14	20	
Silver	3.95	0.0909	"	4.55	ND	87.0	75-125	5.19	20	
Zinc	98.3	33.6	"	45.5	51.8	102	75-125	3.54	20	

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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 B4C2222 - EPA 3580

Blank (B4C2222-BLK1)

Prepared: 03/22/2024 Analyzed: 03/27/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.2	60-130			
Surrogate: Pyrene-d10	200		"	200		98.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

LCS (B4C2222-BS1)

Prepared: 03/22/2024 Analyzed: 03/27/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200		95.1	70-130
2-Methylnaphthalene	0.191	0.002	"	0.200		95.3	70-130
Acenaphthene	0.198	0.020	"	0.200		98.8	70-130
Anthracene	0.184	0.020	"	0.200		91.8	70-130

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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 B4C2222 - EPA 3580

LCS (B4C2222-BS1)

Prepared: 03/22/2024 Analyzed: 03/27/2024

Benzo (a) anthracene	0.188	0.005	mg/kg	0.200		94.0	70-130
Benzo (a) pyrene	0.184	0.020	"	0.200		92.0	70-130
Benzo (b) fluoranthene	0.199	0.020	"	0.200		99.4	70-130
Benzo (g,h,i) perylene	0.202	0.020	"	0.200		101	70-130
Benzo (k) fluoranthene	0.190	0.020	"	0.200		95.2	70-130
Chrysene	0.181	0.020	"	0.200		90.7	70-130
Dibenz (a,h) anthracene	0.196	0.020	"	0.200		98.0	70-130
Fluoranthene	0.179	0.020	"	0.200		89.3	70-130
Fluorene	0.195	0.020	"	0.200		97.6	70-130
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200		98.2	70-130
Naphthalene	0.199	0.002	"	0.200		99.5	70-130
Phenanthrene	0.182	0.020	"	0.200		91.2	70-130
Pyrene	0.203	0.020	"	0.200		101	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	190		"	200		94.9	60-130
Surrogate: Pyrene-d10	210		"	200		105	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B4C2222-MS1)

Source: Y403528-01

Prepared: 03/22/2024 Analyzed: 03/27/2024

1-Methylnaphthalene	0.252	0.002	mg/kg	0.200	0.060	95.9	70-130
2-Methylnaphthalene	0.232	0.002	"	0.200	0.030	101	70-130
Acenaphthene	0.211	0.020	"	0.200	0.022	94.4	70-130
Anthracene	0.192	0.020	"	0.200	0.002	94.9	70-130
Benzo (a) anthracene	0.174	0.005	"	0.200	0.001	86.4	70-130
Benzo (a) pyrene	0.195	0.020	"	0.200	0.003	96.2	70-130
Benzo (b) fluoranthene	0.212	0.020	"	0.200	0.0003	106	70-130
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	0.0008	98.2	70-130

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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 B4C2222 - EPA 3580

Matrix Spike (B4C2222-MS1)		Source: Y403528-01			Prepared: 03/22/2024 Analyzed: 03/27/2024					
Benzo (k) fluoranthene	0.193	0.020	mg/kg	0.200	0.002	95.9	70-130			
Chrysene	0.184	0.020	"	0.200	0.005	89.2	70-130			
Dibenz (a,h) anthracene	0.207	0.020	"	0.200	ND	104	70-130			
Fluoranthene	0.158	0.020	"	0.200	0.001	78.5	70-130			
Fluorene	0.217	0.020	"	0.200	0.032	92.5	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	ND	96.5	70-130			
Naphthalene	0.202	0.002	"	0.200	0.004	99.0	70-130			
Phenanthrene	0.201	0.020	"	0.200	0.023	88.8	70-130			
Pyrene	0.257	0.020	"	0.200	0.004	127	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.1	60-130			
Surrogate: Pyrene-d10	270		"	200		135	60-130			S-04
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4C2222-MSD1)		Source: Y403528-01			Prepared: 03/22/2024 Analyzed: 03/27/2024					
1-Methylnaphthalene	0.272	0.002	mg/kg	0.200	0.060	106	70-130	7.59	20	
2-Methylnaphthalene	0.264	0.002	"	0.200	0.030	117	70-130	12.9	20	
Acenaphthene	0.223	0.020	"	0.200	0.022	100	70-130	5.36	20	
Anthracene	0.193	0.020	"	0.200	0.002	95.6	70-130	0.714	20	
Benzo (a) anthracene	0.182	0.005	"	0.200	0.001	90.6	70-130	4.72	20	
Benzo (a) pyrene	0.198	0.020	"	0.200	0.003	97.4	70-130	1.19	20	
Benzo (b) fluoranthene	0.206	0.020	"	0.200	0.0003	103	70-130	3.05	20	
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.0008	97.0	70-130	1.23	20	
Benzo (k) fluoranthene	0.178	0.020	"	0.200	0.002	88.1	70-130	8.41	20	
Chrysene	0.185	0.020	"	0.200	0.005	90.0	70-130	0.779	20	
Dibenz (a,h) anthracene	0.207	0.020	"	0.200	ND	103	70-130	0.119	20	
Fluoranthene	0.162	0.020	"	0.200	0.001	80.5	70-130	2.60	20	

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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
Batch B4C2222 - EPA 3580										
Matrix Spike Dup (B4C2222-MSD1)		Source: Y403528-01			Prepared: 03/22/2024 Analyzed: 03/27/2024					
Fluorene	0.221	0.020	mg/kg	0.200	0.032	94.7	70-130	2.02	20	
Indeno (1,2,3-cd) pyrene	0.162	0.020	"	0.200	ND	81.2	70-130	17.2	20	
Naphthalene	0.214	0.002	"	0.200	0.004	105	70-130	5.73	20	
Phenanthrene	0.212	0.020	"	0.200	0.023	94.5	70-130	5.51	20	
Pyrene	0.262	0.020	"	0.200	0.004	129	70-130	1.94	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.8	60-130			
Surrogate: Pyrene-d10	270		"	200		135	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			S-04

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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 B4C2506 - Saturated Paste Metals

Blank (B4C2506-BLK1)

Prepared: 03/25/2024 Analyzed: 03/28/2024

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

Duplicate (B4C2506-DUP1)

Source: Y403580-01

Prepared: 03/25/2024 Analyzed: 03/28/2024

SAR	ND	0.0100	SAR	2.89		200
Calcium PPM	395	10.0	mg/L	426	7.48	50
Magnesium PPM	72.5	10.0	"	80.8	10.8	50
Sodium PPM	239	10.0	"	248	3.68	50

Batch B4C2516 - DTPA Sorbitol Preparation

Blank (B4C2516-BLK1)

Prepared: 03/25/2024 Analyzed: 03/26/2024

Boron	ND	0.100	mg/L
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Duplicate (B4C2516-DUP1)

Source: Y403569-01

Prepared: 03/25/2024 Analyzed: 03/26/2024

Boron	0.545	0.0995	mg/L	0.526	3.58	50
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Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2520 - Saturated Paste pH/EC										
Blank (B4C2520-BLK1)					Prepared: 03/25/2024 Analyzed: 03/26/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C2520-DUP1)					Source: Y403580-01 Prepared: 03/25/2024 Analyzed: 03/26/2024					
pH	7.92		pH Units		8.30			4.69	25	
Specific Conductance (EC)	2.62	0.00500	mmhos/cm		2.67			2.15	25	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L744977 -										
DUP (L 97712-DUP)	Source: 97712				Prepared: Analyzed: 04/18/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0.3	20	
MS (L 97712-MS)	Source: 97712				Prepared: Analyzed: 04/18/2024					
Chromium, Hexavalent	27	2.5	mg/Kg	39.9	< 0.244	68	75-125			*
LCS (LCS)					Prepared: Analyzed: 04/18/2024					
Chromium, Hexavalent	6.66	0.5	mg/Kg	8		83	75-125			
LRB (LRB)					Prepared: Analyzed: 04/18/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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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