

January 29, 2024

Fundare

Levi Kirk

1613 Propect Park Way Suite 120

Fort Collins CO 80525

Project Name - Horsetail 07F

Project Number - [none]

Attached are your analytical results for Horsetail 07F received by Origins Laboratory, Inc. January 18, 2024. This project is associated with Origins project number Y401440-01.

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



Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

Levi Kirk
Project Number: [none]
Project: Horsetail 07F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1@2.5ft	Y401440-01	Soil	January 17, 2024 11:55	01/18/2024 15:25
SW-2@2.5ft	Y401440-02	Soil	January 17, 2024 12:05	01/18/2024 15:25
SW-3@2.5ft	Y401440-03	Soil	January 17, 2024 12:15	01/18/2024 15:25
BH-1@3ft	Y401440-04	Soil	January 17, 2024 11:45	01/18/2024 15:25

Origins Laboratory, Inc.



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Fundare
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

www.originslaboratory.com

page 1 of 1

440144D

ORIGINS
 LABORATORY, INC

Client: Fundare
 Address: 1613 Prospect Park Way Suite 120
 Telephone Number: 970-237-1415
 Email Address: Fundare@marcomllc.net

Project Manager: Levi Kirk
 Project Name: Horsetail 07F
 Project Number:
 Samples Collected By:

Send matrix to: V.Antonic@marcomllc.net

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix			Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa		
SW-102.5F	1/17/24	1155	3X				X			Full Table	1
SW-202.5F		1205									2
SW-302.5F		1215									3
BH-103F		1145									4
											5
											6
											7
											8
											9
											10

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

Relinquished By: *Bh* Date: 1/18/24 Time: 1505
 Received By: *[Signature]* Date: 1/19/24 Time: 1525

Date Results Needed: _____

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

Origins Laboratory, Inc.
[Signature]

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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401440 Client: Fundare
 Client Project ID: Horsetail 07F
 Checklist Completed by: EHS Shipped Via: HO
 Date/time completed: 1/18/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1/1 °C / °C / °C (Describe) _____ °C
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 1/22/24

Origins Laboratory, Inc.

[Signature]

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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-1@2.5ft

1/17/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.460		0.0995	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A1903	01/19/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A1835	01/18/2024	01/19/2024	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	113 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-1@2.5ft

1/17/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.3 %		70-130			B4A18 35	01/18/2024	01/19/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.559		0.499	meq/L	10	[CALC]	01/22/2024	01/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.38		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A1929	01/19/2024	01/23/2024	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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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-1@2.5ft

1/17/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A1929	01/19/2024	01/23/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	93.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	111 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.53			pH Units	1	B4A2212	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	5.60		0.0100	SAR	1	B4A2206	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.466		0.00500	mmhos/cm	1	B4A2212	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-1@2.5ft

1/17/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.81	0.0925	0.0925	mg/kg	10	B4A1840	01/18/2024	01/23/2024	
Barium	588	9.25	9.25	"	"	"	"	"	
Cadmium	ND	0.0925	0.0925	"	"	"	"	"	
Copper	ND	9.25	9.25	"	"	"	"	"	
Lead	5.91	0.925	0.925	"	"	"	"	"	
Nickel	4.05	0.925	0.925	"	"	"	"	"	
Selenium	ND	0.0925	0.0925	"	"	"	"	"	
Silver	ND	0.0925	0.0925	"	"	"	"	"	
Zinc	20.0	9.25	9.25	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.516	mg/Kg	1	L729231	01/17/2024	01/26/2024	
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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-2@2.5ft

1/17/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.484		0.0989	mg/L	1	B4A2211	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A1903	01/19/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A1835	01/18/2024	01/19/2024	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	110 %		70-130			"	"	"	
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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-2@2.5ft

1/17/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.4 %		70-130			B4A18 35	01/18/2024	01/19/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.549		0.499	meq/L	10	[CALC]	01/22/2024	01/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.19		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A1929	01/19/2024	01/23/2024	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

Origins Laboratory, Inc.



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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-2@2.5ft

1/17/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A1929	01/19/2024	01/23/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	109 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	114 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.55			pH Units	1	B4A2212	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	8.32		0.0100	SAR	1	B4A2206	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.666		0.00500	mmhos/cm	1	B4A2212	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-2@2.5ft

1/17/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.53		0.0975	mg/kg	10	B4A1840	01/18/2024	01/23/2024	
Barium	246		9.75	"	"	"	"	"	
Cadmium	0.131		0.0975	"	"	"	"	"	
Copper	ND		9.75	"	"	"	"	"	
Lead	7.66		0.975	"	"	"	"	"	
Nickel	5.91		0.975	"	"	"	"	"	
Selenium	0.102		0.0975	"	"	"	"	"	
Silver	ND		0.0975	"	"	"	"	"	
Zinc	29.9		9.75	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729231	01/17/2024	01/26/2024	
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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-3@2.5ft

1/17/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.04		0.100	mg/L	1	B4A2211	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A1903	01/19/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	100 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A1835	01/18/2024	01/19/2024	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	107 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-3@2.5ft

1/17/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.3 %		70-130			B4A18 35	01/18/2024	01/19/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]		01/22/2024	01/23/2024	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	5.64	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1929		01/19/2024	01/23/2024	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

Origins Laboratory, Inc.



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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-3@2.5ft

1/17/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A1929	01/19/2024	01/23/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	108 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.97			pH Units	1	B4A2212	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	13.2		0.0100	SAR	1	B4A2206	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.586		0.00500	mmhos/cm	1	B4A2212	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

SW-3@2.5ft

1/17/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.32		0.0947	mg/kg	10	B4A1840	01/18/2024	01/23/2024	
Barium	236		9.47	"	"	"	"	"	
Cadmium	0.159		0.0947	"	"	"	"	"	
Copper	ND		9.47	"	"	"	"	"	
Lead	5.37		0.947	"	"	"	"	"	
Nickel	5.45		0.947	"	"	"	"	"	
Selenium	ND		0.0947	"	"	"	"	"	
Silver	ND		0.0947	"	"	"	"	"	
Zinc	26.5		9.47	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729231	01/17/2024	01/26/2024	
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

BH-1@3ft

1/17/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.464		0.0997	mg/L	1	B4A2211	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A1903	01/19/2024	01/23/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A1835	01/18/2024	01/19/2024	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	107 %		70-130			"	"	"	
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Fundare
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

BH-1@3ft

1/17/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %		70-130			B4A18 35	01/18/2024	01/19/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	01/22/2024	01/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.65		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A1929	01/19/2024	01/23/2024	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

Origins Laboratory, Inc.



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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

BH-1@3ft

1/17/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A1929	01/19/2024	01/23/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	96.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	111 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	110 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.60			pH Units	1	B4A2212	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	8.86		0.0100	SAR	1	B4A2206	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.560		0.00500	mmhos/cm	1	B4A2212	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

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Fundare
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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

BH-1@3ft

1/17/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401440-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.02		0.0842	mg/kg	10	B4A1840	01/18/2024	01/23/2024	
Barium	194		8.42	"	"	"	"	"	
Cadmium	0.105		0.0842	"	"	"	"	"	
Copper	ND		8.42	"	"	"	"	"	
Lead	6.87		0.842	"	"	"	"	"	
Nickel	4.91		0.842	"	"	"	"	"	
Selenium	0.114		0.0842	"	"	"	"	"	
Silver	ND		0.0842	"	"	"	"	"	
Zinc	24.7		8.42	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729231	01/17/2024	01/26/2024	
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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1835 - EPA 5030 (soil)

Blank (B4A1835-BLK1)

Prepared: 01/18/2024 Analyzed: 01/19/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.5		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1835 - EPA 5030 (soil)

LCS (B4A1835-BS1)

Prepared: 01/18/2024 Analyzed: 01/19/2024

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.114	0.00200	"	0.100		114	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.234	0.00400	"	0.200		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1835 - EPA 5030 (soil)

Matrix Spike (B4A1835-MS1)	Source: Y401408-13			Prepared: 01/18/2024 Analyzed: 01/19/2024						
1,2,4-Trimethylbenzene	0.0854	0.00200	mg/kg	0.100	ND	85.4	70-130			
1,3,5-Trimethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
Benzene	0.0946	0.00200	"	0.100	ND	94.6	70-130			
Ethylbenzene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
Naphthalene	0.0654	0.00380	"	0.100	ND	65.4	70-130			QM-07
Toluene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
o-Xylene	0.0912	0.00200	"	0.100	ND	91.2	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1835 - EPA 5030 (soil)

Matrix Spike Dup (B4A1835-MSD1)	Source: Y401408-13			Prepared: 01/18/2024 Analyzed: 01/19/2024						
1,2,4-Trimethylbenzene	0.0755	0.00200	mg/kg	0.100	ND	75.5	70-130	12.3	20	
1,3,5-Trimethylbenzene	0.0776	0.00200	"	0.100	ND	77.6	70-130	12.0	20	
Benzene	0.0911	0.00200	"	0.100	ND	91.1	70-130	3.73	20	
Ethylbenzene	0.0859	0.00200	"	0.100	ND	85.9	70-130	8.60	20	
Naphthalene	0.0588	0.00380	"	0.100	ND	58.8	70-130	10.6	20	QM-07
Toluene	0.0860	0.00200	"	0.100	ND	86.0	70-130	6.70	20	
o-Xylene	0.0843	0.00200	"	0.100	ND	84.3	70-130	7.87	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	87.8	70-130	9.64	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1903 - EPA 3550B										
Blank (B4A1903-BLK1)										
					Prepared: 01/19/2024 Analyzed: 01/23/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.



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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1903 - EPA 3550B										
LCS (B4A1903-BS1)										
					Prepared: 01/19/2024 Analyzed: 01/23/2024					
Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	914	200	"	1000		91.4	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

Origins Laboratory, Inc.



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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1903 - EPA 3550B

Matrix Spike (B4A1903-MS1)	Source: Y401440-01			Prepared: 01/19/2024 Analyzed: 01/23/2024						
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000	ND	92.0	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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Fundare
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1903 - EPA 3550B										
Matrix Spike Dup (B4A1903-MSD1)		Source: Y401440-01			Prepared: 01/19/2024 Analyzed: 01/23/2024					
Diesel (C10-C28)	896	50.0	mg/kg	1000	ND	89.6	70-130	4.96	35	
Residual Range Organics (C28-C40)	891	200	"	1000	ND	89.1	70-130	3.27	35	
Surrogate: o-Terphenyl	62		"	49.8		125	50-150			

Origins Laboratory, Inc.



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Fundare
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A1840 - EPA 3050B

Blank (B4A1840-BLK1)

Prepared: 01/18/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A1840-BS1)

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	4.52	0.0100	mg/kg	5.00		90.5	80-120			
Barium	433	1.00	"	500		86.6	80-120			
Cadmium	4.79	0.0100	"	5.00		95.7	80-120			
Copper	48.1	1.00	"	50.0		96.2	80-120			
Lead	4.93	0.100	"	5.00		98.7	80-120			
Nickel	4.78	0.100	"	5.00		95.6	80-120			
Selenium	4.59	0.0100	"	5.00		91.8	80-120			
Silver	4.72	0.0100	"	5.00		94.3	80-120			
Zinc	47.8	1.00	"	50.0		95.6	80-120			

Matrix Spike (B4A1840-MS1)

Source: Y401430-01

Prepared: 01/18/2024 Analyzed: 01/23/2024

Origins Laboratory, Inc.



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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1840 - EPA 3050B

Matrix Spike (B4A1840-MS1)		Source: Y401430-01			Prepared: 01/18/2024 Analyzed: 01/23/2024					
Arsenic	5.41	0.0888	mg/kg	4.44	1.85	80.2	75-125			
Barium	455	8.88	"	444	53.9	90.3	75-125			
Cadmium	4.47	0.0888	"	4.44	0.0817	98.9	75-125			
Copper	47.1	8.88	"	44.4	5.11	94.5	75-125			
Lead	9.25	0.888	"	4.44	5.10	93.4	75-125			
Nickel	8.02	0.888	"	4.44	4.22	85.6	75-125			
Selenium	4.17	0.0888	"	4.44	0.0845	91.9	75-125			
Silver	4.07	0.0888	"	4.44	0.0186	91.3	75-125			
Zinc	61.6	8.88	"	44.4	20.2	93.1	75-125			
Matrix Spike Dup (B4A1840-MSD1)		Source: Y401430-01			Prepared: 01/18/2024 Analyzed: 01/23/2024					
Arsenic	5.64	0.0983	mg/kg	4.91	1.85	77.2	75-125	4.16	20	
Barium	476	9.83	"	491	53.9	86.0	75-125	4.62	20	
Cadmium	4.65	0.0983	"	4.91	0.0817	92.9	75-125	3.79	20	
Copper	48.3	9.83	"	49.1	5.11	88.0	75-125	2.64	20	
Lead	9.43	0.983	"	4.91	5.10	88.2	75-125	1.96	20	
Nickel	7.98	0.983	"	4.91	4.22	76.4	75-125	0.592	20	
Selenium	4.35	0.0983	"	4.91	0.0845	86.8	75-125	4.31	20	
Silver	4.25	0.0983	"	4.91	0.0186	86.1	75-125	4.22	20	
Zinc	62.7	9.83	"	49.1	20.2	86.5	75-125	1.86	20	

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Fundare
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1929 - EPA 3580

Blank (B4A1929-BLK1)

Prepared: 01/19/2024 Analyzed: 01/24/2024

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		97.7	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		111	60-130			

LCS (B4A1929-BS1)

Prepared: 01/19/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.7	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		94.8	70-130			
Acenaphthene	0.172	0.020	"	0.200		86.1	70-130			
Anthracene	0.191	0.020	"	0.200		95.3	70-130			

Origins Laboratory, Inc.



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Fundare
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1929 - EPA 3580

LCS (B4A1929-BS1)

Prepared: 01/19/2024 Analyzed: 01/24/2024

Benzo (a) anthracene	0.167	0.005	mg/kg	0.200		83.5	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200		99.8	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200		91.3	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.3	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		83.9	70-130			
Chrysene	0.182	0.020	"	0.200		91.0	70-130			
Dibenz (a,h) anthracene	0.227	0.020	"	0.200		114	70-130			
Fluoranthene	0.161	0.020	"	0.200		80.3	70-130			
Fluorene	0.174	0.020	"	0.200		87.1	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.178	0.002	"	0.200		89.2	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.7	70-130			
Pyrene	0.151	0.020	"	0.200		75.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		113	60-130			

Matrix Spike (B4A1929-MS1)

Source: Y401406-01

Prepared: 01/19/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.0005	97.3	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.8	70-130			
Acenaphthene	0.168	0.020	"	0.200	0.0003	83.9	70-130			
Anthracene	0.197	0.020	"	0.200	ND	98.6	70-130			
Benzo (a) anthracene	0.166	0.005	"	0.200	0.0007	82.8	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200	ND	95.7	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200	0.0006	92.3	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.0007	93.5	70-130			

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Fundare
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1929 - EPA 3580

Matrix Spike (B4A1929-MS1)		Source: Y401406-01			Prepared: 01/19/2024 Analyzed: 01/24/2024					
Benzo (k) fluoranthene	0.167	0.020	mg/kg	0.200	0.0008	83.2	70-130			
Chrysene	0.169	0.020	"	0.200	0.0003	84.2	70-130			
Dibenz (a,h) anthracene	0.228	0.020	"	0.200	0.0008	114	70-130			
Fluoranthene	0.160	0.020	"	0.200	ND	80.2	70-130			
Fluorene	0.166	0.020	"	0.200	0.0002	82.7	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	99.2	70-130			
Naphthalene	0.177	0.002	"	0.200	ND	88.6	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.4	70-130			
Pyrene	0.162	0.020	"	0.200	ND	80.9	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.7	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		89.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

Matrix Spike Dup (B4A1929-MSD1)		Source: Y401406-01			Prepared: 01/19/2024 Analyzed: 01/24/2024					
1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0005	92.6	70-130	4.88	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	91.9	70-130	6.26	20	
Acenaphthene	0.168	0.020	"	0.200	0.0003	84.0	70-130	0.0709	20	
Anthracene	0.176	0.020	"	0.200	ND	88.1	70-130	11.3	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.0007	85.3	70-130	3.03	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	1.74	20	
Benzo (b) fluoranthene	0.165	0.020	"	0.200	0.0006	82.4	70-130	11.2	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	0.0007	91.8	70-130	1.86	20	
Benzo (k) fluoranthene	0.173	0.020	"	0.200	0.0008	86.0	70-130	3.32	20	
Chrysene	0.187	0.020	"	0.200	0.0003	93.2	70-130	10.1	20	
Dibenz (a,h) anthracene	0.212	0.020	"	0.200	0.0008	106	70-130	7.31	20	
Fluoranthene	0.165	0.020	"	0.200	ND	82.4	70-130	2.68	20	

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Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A1929 - EPA 3580

Matrix Spike Dup (B4A1929-MSD1)	Source: Y401406-01			Prepared: 01/19/2024 Analyzed: 01/24/2024						
Fluorene	0.169	0.020	mg/kg	0.200	0.0002	84.4	70-130	2.05	20	
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.3	70-130	6.17	20	
Naphthalene	0.176	0.002	"	0.200	ND	88.2	70-130	0.424	20	
Phenanthrene	0.184	0.020	"	0.200	ND	92.2	70-130	1.33	20	
Pyrene	0.157	0.020	"	0.200	ND	78.6	70-130	2.82	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	220		"	200		110	60-130			
Surrogate: Pyrene-d10	190		"	200		92.9	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		111	60-130			

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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 B4A2206 - Saturated Paste Metals

Blank (B4A2206-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

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 (B4A2206-DUP1)

Source: Y401440-01

Prepared: 01/22/2024 Analyzed: 01/23/2024

Calcium PPM	12.6	10.0	mg/L		11.2			11.9	50	
SAR	ND	0.0100	SAR		5.60				200	
Magnesium PPM	2.34	10.0	mg/L		2.06			12.7	50	
Sodium PPM	84.8	10.0	"		77.7			8.70	50	

Batch B4A2210 - DTPA Sorbitol Preparation

Blank (B4A2210-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2210-DUP1)

Source: Y401404-01

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	0.370	0.0990	mg/L		0.383			3.63	50	
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Batch B4A2211 - DTPA Sorbitol Preparation

Blank (B4A2211-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2211-DUP1)

Source: Y401440-02

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	0.451	0.0998	mg/L		0.484			7.09	50	
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 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2212 - Saturated Paste pH/EC										
Blank (B4A2212-BLK1)					Prepared: 01/22/2024 Analyzed: 01/23/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A2212-DUP1)					Source: Y401440-01 Prepared: 01/22/2024 Analyzed: 01/23/2024					
pH	8.53		pH Units		8.53			0.00	25	
Specific Conductance (EC)	0.450	0.00500	mmhos/cm		0.466			3.62	25	

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Fundare
 1613 Propect Park Way Suite 120
 Fort Collins CO 80525

Levi Kirk
 Project Number: [none]
 Project: Horsetail 07F

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 L729231 -										
DUP (L 90061-DUP)		Source: Y401440-01			Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	ND	0.504	mg/Kg		<0.504		-	2.3	20	
MS (L 90061-MS)		Source: Y401440-01			Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	32.6	2.57	mg/Kg	41.1	< 0.251	79	75-125			
LCS (LCS)		Prepared: Analyzed: 01/26/2024								
Chromium, Hexavalent	6.22	0.5	mg/Kg	8		78	75-125			
LRB (LRB)		Prepared: Analyzed: 01/26/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

Levi Kirk
Project Number: [none]
Project: Horsetail 07F

Notes and Definitions

U Sample is Non-Detect.

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

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.

Origins Laboratory, Inc.



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