



Fundare

November 20, 2024

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 November 05, 2024. This project is associated with Origins project number E4K0128-01.

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

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

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

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

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

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



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

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@3'	E4K0128-01	Soil	November 5, 2024 10:30	11/05/2024 14:10
SW-2@3'	E4K0128-02	Soil	November 5, 2024 10:35	11/05/2024 14:10
SW-3@3'	E4K0128-03	Soil	November 5, 2024 10:40	11/05/2024 14:10
SW-4@3'	E4K0128-04	Soil	November 5, 2024 10:45	11/05/2024 14:10
SW-5@3'	E4K0128-05	Soil	November 5, 2024 10:50	11/05/2024 14:10
SW-6@3'	E4K0128-06	Soil	November 5, 2024 10:55	11/05/2024 14:10
SW-7@3'	E4K0128-07	Soil	November 5, 2024 11:00	11/05/2024 14:10
SW-8@3'	E4K0128-08	Soil	November 5, 2024 11:05	11/05/2024 14:10
SW-9@3'	E4K0128-09	Soil	November 5, 2024 11:10	11/05/2024 14:10
SW-10@3'	E4K0128-10	Soil	November 5, 2024 11:15	11/05/2024 14:10
SW-11@3'	E4K0128-11	Soil	November 5, 2024 11:20	11/05/2024 14:10
SW-12@3'	E4K0128-12	Soil	November 5, 2024 11:25	11/05/2024 14:10
SW-13@3'	E4K0128-13	Soil	November 5, 2024 11:30	11/05/2024 14:10
SW-14@3'	E4K0128-14	Soil	November 5, 2024 11:35	11/05/2024 14:10

Origins Laboratory



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Fort Collins CO 80525

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

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1@5'	E4K0128-15	Soil	November 5, 2024 11:40	11/05/2024 14:10
BH-2@5'	E4K0128-16	Soil	November 5, 2024 11:45	11/05/2024 14:10
BH-3@5'	E4K0128-17	Soil	November 5, 2024 11:50	11/05/2024 14:10
BH-4@5'	E4K0128-18	Soil	November 5, 2024 11:55	11/05/2024 14:10
BH-5@5'	E4K0128-19	Soil	November 5, 2024 12:00	11/05/2024 14:10
BH-6@5'	E4K0128-20	Soil	November 5, 2024 12:05	11/05/2024 14:10

Origins Laboratory



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

**ORIGINS**  
 LABORATORY, INC

**E4K0108**

www.originslaboratory.com

page 1 of 2

Client: Fundare  
 Address: 1613 Prospect Park Way Suite 120  
 Telephone Number: 970-237-1415  
 Email Address: Fundare@marconic.net  
 Project Manager: Levi Kirk  
 Project Name: Horsetail 07F  
 Project Number: [none]  
 Samples Collected By: BJS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Other	Analysis	Sample Instructions
				HCl	HNO <sub>3</sub>	Groundwater	Soil			
SU-1-03	11/5/24	10:30	3	X				Full Table		
SU-2-03		10:35	1							
SU-3-03		10:40	1							
SU-4-03		10:45	1							
SU-5-03		10:50	1							
SU-6-03		10:55	1							
SU-7-03		1:00	1							
SU-8-03		1:05	1							
SU-9-03		1:10	1							
SU-10-03		1:15	1							

Date Results Needed: 11/4

Requisitioned By: *[Signature]*  
 Date: 11/5/24  
 Time: 1:10  
 Received By: *[Signature]*  
 Date: 11/5/24  
 Time: 1:10  
 Turnaround Time:  
 Same Day  
 48 Hr  
 Standard  
 24 Hr  
 72 Hr

Origins Laboratory  
*[Signature]*

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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**EQK0128**


Client: Fundare  
 Address: 1613 Propect Park Way Suite 120

Project Manager: Levi Kirk  
 Project Name: Horsetail 07F  
 Project Number: -  
 Key: W=Water  
 GW=Groundwater  
 SW=Surface Water  
 WW=Waste Water  
 L=Liquid

Telephone Number: 970 237 1415  
 Email Address: fundare@fundare.com  
 Invoice/Billing Info: Horsetail 07F  
 Collected By: BH ES  
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | U=Urine | P=Pres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis				Comments										
							1	2	3	4											
1	SW-1-05'	11/5/21	1120	3	SW	None	X														
2	SW-2-05'		1125	1																	
3	SW-3-05'		1136	1																	
4	SW-4-05'		1135	1																	
5	SW-14-03'		1140	1																	
6	BH-1-05'		1145	1																	
7	BH-2-05'		1150	1																	
8	BH-3-05'		1155	1																	
9	BH-4-05'		1200	1																	
10	BH-5-05'		1205	1																	

Requisitioned By: [Signature] Date: 11/5/21 Time: 1110  
 Received By: [Signature] Date: 11/5/21 Time: 1410  
 Requisitioned By: [Signature] Date: 11/5/21 Time: 1410  
 Received By: [Signature] Date: 11/5/21 Time: 1410

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 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: E4K0128

Client: Fundare

Client Project ID: Horsetail

Checklist Completed by: [Signature]

Shipped Via: HO

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

Date/time completed: 11/10/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 11.4c / 1 °c / 1 °c (Describe) °c

Thermometer ID: TC07

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?				
Is there ice present (document if blue ice is used)	/	/		SO
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact <sup>(1)</sup> ?	/	/		
Was adequate sample volume provided <sup>(1)</sup> ?	/	/		
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	/	/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/	/		
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/	/		
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/	/		
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/	/		
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup>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]

11/8/12  
 Date/Time Reviewed

Origins Laboratory

[Signature]

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Fundare  
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 Fort Collins CO 80525

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

**SW-1@3'**

**11/5/2024 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.24		0.0997	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	82.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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	112 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

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**SW-1@3'**

**11/5/2024 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	111 %	70-130				B4K06 44	11/06/2024	11/08/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.770	0.499	meq/L	10	[CALC]		11/07/2024	11/11/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	3.85	0.435	"	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00113	0.00342	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00113	0.00342	"	"	"	"	"	U
Acenaphthene	ND	0.00113	0.00342	"	"	"	"	"	U
Anthracene	ND	0.00113	0.00342	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00113	0.00342	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00113	0.00342	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00113	0.00342	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00113	0.00342	"	"	"	"	"	U
Chrysene	ND	0.00113	0.00342	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00113	0.00342	"	"	"	"	"	U
Fluoranthene	ND	0.00113	0.00342	"	"	"	"	"	U
Fluorene	ND	0.00113	0.00342	"	"	"	"	"	U

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Project Number: [none]  
Project: Horsetail 07F

**SW-1@3'**

**11/5/2024 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC  
E4K0128-01 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00113	0.00342	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00113	0.00342	"	"	"	"	"	U
Pyrene	ND	0.00113	0.00342	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 70 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.87 pH Units 1 B4K0739 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 5.68 0.0100 SAR 1 B4K0723 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.586 0.00500 mmhos/cm 1 B4K0739 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.76	0.258	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	170	8.91	"	"	"	"	"
Cadmium	ND	0.0891	"	"	"	"	"

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 Project: Horsetail 07F

**SW-1@3'**

**11/5/2024 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-01 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.91	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>8.92</b>		0.891	"	"	"	"	"	
Nickel	<b>3.62</b>		0.891	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0891	"	"	"	"	"	
Zinc	ND		33.0	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.140	0.351	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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 Fort Collins CO 80525

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

**SW-2@3'**

**11/5/2024 10:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.26		0.0993	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	83.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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			"	"	"	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	

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Levi Kirk  
 Project Number: [none]  
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**SW-2@3'**

**11/5/2024 10:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	112 %	70-130			B4K06 44	11/06/2024	11/08/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	14.3	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	4.63	0.823	"	"	"	"	"
Sodium	23.1	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00115	0.00348	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00115	0.00348	"	"	"	"	"	U
Acenaphthene	ND	0.00115	0.00348	"	"	"	"	"	U
Anthracene	ND	0.00115	0.00348	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00115	0.00348	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00115	0.00348	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00115	0.00348	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00115	0.00348	"	"	"	"	"	U
Chrysene	ND	0.00115	0.00348	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00115	0.00348	"	"	"	"	"	U
Fluoranthene	ND	0.00115	0.00348	"	"	"	"	"	U
Fluorene	ND	0.00115	0.00348	"	"	"	"	"	U

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

**SW-2@3'**

**11/5/2024 10:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-02 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00115	0.00348	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00115	0.00348	"	"	"	"	"	U
Pyrene	ND	0.00115	0.00348	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane      85 %      22-135      "      "      "

**pH in Soil by 9045D**

pH      8.03      pH Units      1      B4K0739      11/07/2024      11/08/2024

**SAR by 20B Saturated Paste**

SAR      7.50      0.0100      SAR      1      B4K0723      11/07/2024      11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)      4.18      0.00500      mmhos/cm      1      B4K0739      11/07/2024      11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.06	0.272	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	270	9.37	"	"	"	"	"
Cadmium	0.0974	0.0937	"	"	"	"	"
Copper	ND	9.37	"	"	"	"	"

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

**SW-2@3'**

**11/5/2024 10:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-02 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	5.58		0.937	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Nickel	4.83		0.937	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0937	"	"	"	"	"	
Zinc	ND		34.7	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.120	0.299	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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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@3'**

**11/5/2024 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.65		0.0994	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	82.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

Origins Laboratory



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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@3'**

**11/5/2024 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	112 %	70-130				B4K06 44	11/06/2024	11/08/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.67	0.499	meq/L	10	[CALC]		11/07/2024	11/11/2024	
Magnesium	0.932	0.823	"	"	"	"	"	"	
Sodium	15.1	0.435	"	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00115	0.00348	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00115	0.00348	"	"	"	"	"	U
Acenaphthene	ND	0.00115	0.00348	"	"	"	"	"	U
Anthracene	ND	0.00115	0.00348	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00115	0.00348	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00115	0.00348	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00115	0.00348	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00115	0.00348	"	"	"	"	"	U
Chrysene	ND	0.00115	0.00348	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00115	0.00348	"	"	"	"	"	U
Fluoranthene	ND	0.00115	0.00348	"	"	"	"	"	U
Fluorene	ND	0.00115	0.00348	"	"	"	"	"	U

Origins Laboratory



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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@3'**

**11/5/2024 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC  
E4K0128-03 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00115	0.00348	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00115	0.00348	"	"	"	"	"	U
Pyrene	ND	0.00115	0.00348	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 81 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.49 pH Units 1 B4K0739 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 13.2 0.0100 SAR 1 B4K0723 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 1.99 0.00500 mmhos/cm 1 B4K0739 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.27	0.279	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	212	9.61	"	"	"	"	"
Cadmium	0.111	0.0961	"	"	"	"	"
Copper	ND	9.61	"	"	"	"	"

Origins Laboratory



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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@3'**

**11/5/2024 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-03 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	<b>6.21</b>		0.961	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Nickel	<b>5.39</b>		0.961	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0961	"	"	"	"	"	
Zinc	ND		35.6	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.104	0.261	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-4@3'**

**11/5/2024 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.398		0.0984	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	83.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-4@3'**

**11/5/2024 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	115 %	70-130		B4K06 44	11/06/2024	11/08/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.03	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.07	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00114	0.00347	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00114	0.00347	"	"	"	"	"	U
Acenaphthene	ND	0.00114	0.00347	"	"	"	"	"	U
Anthracene	ND	0.00114	0.00347	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00114	0.00347	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00114	0.00347	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00114	0.00347	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00114	0.00347	"	"	"	"	"	U
Chrysene	ND	0.00114	0.00347	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00114	0.00347	"	"	"	"	"	U
Fluoranthene	ND	0.00114	0.00347	"	"	"	"	"	U
Fluorene	ND	0.00114	0.00347	"	"	"	"	"	U

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-4@3'**

**11/5/2024 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC  
E4K0128-04 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00114	0.00347	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00114	0.00347	"	"	"	"	"	U
Pyrene	ND	0.00114	0.00347	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 80 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.56 pH Units 1 B4K0739 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 3.85 0.0100 SAR 1 B4K0723 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.589 0.00500 mmhos/cm 1 B4K0739 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.58	0.271	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	175	9.34	"	"	"	"	"
Cadmium	ND	0.0934	"	"	"	"	"

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-4@3'**

**11/5/2024 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-04 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.34	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>4.44</b>		0.934	"	"	"	"	"	
Nickel	<b>3.54</b>		0.934	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0934	"	"	"	"	"	
Zinc	ND		34.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.116	0.289	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-5@3'**

**11/5/2024 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.275		0.0986	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	79.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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			"	"	"	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-5@3'**

**11/5/2024 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	112 %	70-130		B4K06 44	11/06/2024	11/08/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.630	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.34	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00110	0.00334	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00110	0.00334	"	"	"	"	"	U
Acenaphthene	ND	0.00110	0.00334	"	"	"	"	"	U
Anthracene	ND	0.00110	0.00334	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00110	0.00334	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00110	0.00334	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00110	0.00334	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00110	0.00334	"	"	"	"	"	U
Chrysene	ND	0.00110	0.00334	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00110	0.00334	"	"	"	"	"	U
Fluoranthene	ND	0.00110	0.00334	"	"	"	"	"	U
Fluorene	ND	0.00110	0.00334	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-5@3'**

**11/5/2024 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-05 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00110	0.00334	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00110	0.00334	"	"	"	"	"	U
Pyrene	ND	0.00110	0.00334	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 69 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.67 pH Units 1 B4K0739 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 4.91 0.0100 SAR 1 B4K0723 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.676 0.00500 mmhos/cm 1 B4K0739 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.52	0.248	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	122	8.56	"	"	"	"	"
Cadmium	ND	0.0856	"	"	"	"	"

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-5@3'**

**11/5/2024 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-05 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.56	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>3.91</b>		0.856	"	"	"	"	"	
Nickel	<b>2.36</b>		0.856	"	"	"	"	"	
Selenium	ND		0.223	"	"	"	"	"	
Silver	ND		0.0856	"	"	"	"	"	
Zinc	ND		31.7	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.0826	0.207	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-6@3'**

**11/5/2024 10:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.110		0.0987	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	89.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

Origins Laboratory



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.

Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-6@3'**

**11/5/2024 10:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	111 %		70-130			B4K06 44	11/06/2024	11/08/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>0.992</b>		0.435	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00136	0.00412	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00136	0.00412	"	"	"	"	"	U
Acenaphthene	ND	0.00136	0.00412	"	"	"	"	"	U
Anthracene	ND	0.00136	0.00412	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00136	0.00412	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00136	0.00412	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00136	0.00412	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00136	0.00412	"	"	"	"	"	U
Chrysene	ND	0.00136	0.00412	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00136	0.00412	"	"	"	"	"	U
Fluoranthene	ND	0.00136	0.00412	"	"	"	"	"	U
Fluorene	ND	0.00136	0.00412	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-6@3'**

**11/5/2024 10:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-06 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00136	0.00412	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00136	0.00412	"	"	"	"	"	U
Pyrene	ND	0.00136	0.00412	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 62 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.84 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 1.88 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.321 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.34	0.243	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	100	8.38	"	"	"	"	"
Cadmium	ND	0.0838	"	"	"	"	"

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-6@3'**

**11/5/2024 10:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-06 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.38	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>2.92</b>		0.838	"	"	"	"	"	
Nickel	<b>1.61</b>		0.838	"	"	"	"	"	
Selenium	ND		0.218	"	"	"	"	"	
Silver	ND		0.0838	"	"	"	"	"	
Zinc	ND		31.0	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.105	0.262	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-7@3'**

**11/5/2024 11:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0995	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	87.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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



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.

Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-7@3'**

**11/5/2024 11:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-07 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	102 %		70-130			B4K06 44	11/06/2024	11/08/2024	
Surrogate: 4-Bromofluorobenzene	112 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>0.610</b>		0.435	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00110	0.00335	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00110	0.00335	"	"	"	"	"	U
Acenaphthene	ND	0.00110	0.00335	"	"	"	"	"	U
Anthracene	ND	0.00110	0.00335	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00110	0.00335	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00110	0.00335	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00110	0.00335	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00110	0.00335	"	"	"	"	"	U
Chrysene	ND	0.00110	0.00335	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00110	0.00335	"	"	"	"	"	U
Fluoranthene	ND	0.00110	0.00335	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-7@3'**

**11/5/2024 11:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-07 (Soil)**

**PAH by 8270E SIM**

Fluorene	ND	0.00110	0.00335	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Indeno(1,2,3-cd)pyrene	ND	0.00110	0.00335	"	"	"	"	"	U
Naphthalene	ND	0.00110	0.00335	"	"	"	"	"	U
Pyrene	ND	0.00110	0.00335	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 55 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.91 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 1.46 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.223 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic 0.880 0.262 mg/kg 10 B4K0711 11/07/2024 11/08/2024  
 Barium 83.2 9.05 " " " " "

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-7@3'**

**11/5/2024 11:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-07 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	ND		0.0905	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Copper	ND		9.05	"	"	"	"	"	
Lead	<b>2.58</b>		0.905	"	"	"	"	"	
Nickel	<b>1.47</b>		0.905	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0905	"	"	"	"	"	
Zinc	ND		33.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.109	0.273	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-8@3'**

**11/5/2024 11:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.293		0.101	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	93.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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			"	"	"	
Surrogate: Toluene-d8	98.8 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-8@3'**

**11/5/2024 11:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-08 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	111 %	70-130		B4K06 44	11/06/2024	11/08/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.40	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.42	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00112	0.00338	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00112	0.00338	"	"	"	"	"	U
Acenaphthene	ND	0.00112	0.00338	"	"	"	"	"	U
Anthracene	ND	0.00112	0.00338	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00112	0.00338	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00112	0.00338	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00112	0.00338	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00112	0.00338	"	"	"	"	"	U
Chrysene	ND	0.00112	0.00338	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00112	0.00338	"	"	"	"	"	U
Fluoranthene	ND	0.00112	0.00338	"	"	"	"	"	U
Fluorene	ND	0.00112	0.00338	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-8@3'**

**11/5/2024 11:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-08 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00112	0.00338	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00112	0.00338	"	"	"	"	"	U
Pyrene	ND	0.00112	0.00338	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 83 % 22-135 " " "

**pH in Soil by 9045D**

pH	8.28			pH Units	1	B4K0740	11/07/2024	11/08/2024	
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**SAR by 20B Saturated Paste**

SAR	1.93		0.0100	SAR	1	B4K0724	11/07/2024	11/11/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.826		0.00500	mmhos/cm	1	B4K0740	11/07/2024	11/08/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.76		0.259	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Barium	211		8.95	"	"	"	"	"	
Cadmium	ND		0.0895	"	"	"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-8@3'**

**11/5/2024 11:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-08 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.95	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>4.45</b>		0.895	"	"	"	"	"	
Nickel	<b>3.52</b>		0.895	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0895	"	"	"	"	"	
Zinc	ND		33.1	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.132	0.331	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-9@3'**

**11/5/2024 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.933		0.100	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	78.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-9@3'**

**11/5/2024 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-09 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	113 %	70-130		B4K06 44	11/06/2024	11/08/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	4.20	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	1.39	0.823	"	"	"	"	"
Sodium	11.0	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00111	0.00336	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00111	0.00336	"	"	"	"	"	U
Acenaphthene	ND	0.00111	0.00336	"	"	"	"	"	U
Anthracene	ND	0.00111	0.00336	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00111	0.00336	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00111	0.00336	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00111	0.00336	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00111	0.00336	"	"	"	"	"	U
Chrysene	ND	0.00111	0.00336	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00111	0.00336	"	"	"	"	"	U
Fluoranthene	ND	0.00111	0.00336	"	"	"	"	"	U
Fluorene	ND	0.00111	0.00336	"	"	"	"	"	U

Origins Laboratory



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.

Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-9@3'**

**11/5/2024 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC  
E4K0128-09 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00111	0.00336	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00111	0.00336	"	"	"	"	"	U
Pyrene	ND	0.00111	0.00336	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 54 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.25 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 6.59 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 1.93 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.02	0.246	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	60.0	8.48	"	"	"	"	"
Cadmium	ND	0.0848	"	"	"	"	"

Origins Laboratory



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.

Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-9@3'**

**11/5/2024 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-09 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.48	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>3.24</b>		0.848	"	"	"	"	"	
Nickel	<b>1.96</b>		0.848	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.0848	"	"	"	"	"	
Zinc	ND		31.4	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.104	0.261	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-10@3'**

**11/5/2024 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.03		0.0988	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	81.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

Origins Laboratory



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.

Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-10@3'**

**11/5/2024 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-10 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	113 %	70-130		B4K06 44	11/06/2024	11/08/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.34	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	1.57	0.823	"	"	"	"	"
Sodium	27.5	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00128	0.00387	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00128	0.00387	"	"	"	"	"	U
Acenaphthene	ND	0.00128	0.00387	"	"	"	"	"	U
Anthracene	ND	0.00128	0.00387	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00128	0.00387	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00128	0.00387	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00128	0.00387	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00128	0.00387	"	"	"	"	"	U
Chrysene	ND	0.00128	0.00387	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00128	0.00387	"	"	"	"	"	U
Fluoranthene	ND	0.00128	0.00387	"	"	"	"	"	U
Fluorene	ND	0.00128	0.00387	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-10@3'**

**11/5/2024 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-10 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00128	0.00387	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00128	0.00387	"	"	"	"	"	U
Pyrene	ND	0.00128	0.00387	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 62 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.30 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 17.6 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 3.76 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.91	0.256	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	164	8.83	"	"	"	"	"
Cadmium	ND	0.0883	"	"	"	"	"

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-10@3'**

**11/5/2024 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-10 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.83	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>5.58</b>		0.883	"	"	"	"	"	
Nickel	<b>3.65</b>		0.883	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	
Silver	ND		0.0883	"	"	"	"	"	
Zinc	ND		32.7	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.151	0.378	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-11@3'**

**11/5/2024 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.55		0.0986	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	97.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/11/2024	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			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-11@3'**

**11/5/2024 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-11 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	119 %	70-130			B4K06 44	11/06/2024	11/11/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	<b>8.23</b>	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00119	0.00361	mg/kg dry	1	2705131	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00119	0.00361	"	"	"	"	"	U
Acenaphthene	ND	0.00119	0.00361	"	"	"	"	"	U
Anthracene	ND	0.00119	0.00361	"	"	"	"	"	U
Benzo(a)anthracene	<b>0.00217</b>	<b>0.00119</b>	0.00361	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.00119	0.00361	"	"	"	"	"	U
Benzo(b)fluoranthene	<b>0.00361</b>	<b>0.00119</b>	0.00361	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00119	0.00361	"	"	"	"	"	U
Chrysene	<b>0.00217</b>	<b>0.00119</b>	0.00361	"	"	"	"	"	BJ
Dibenzo(a,h)anthracene	ND	0.00119	0.00361	"	"	"	"	"	U
Fluoranthene	ND	0.00119	0.00361	"	"	"	"	"	U
Fluorene	ND	0.00119	0.00361	"	"	"	"	"	U

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-11@3'**

**11/5/2024 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC  
E4K0128-11 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	0.00181	0.00119	0.00361	mg/kg dry	1	2705131	11/14/2024	11/15/2024	J
Naphthalene	ND	0.00119	0.00361	"	"	"	"	"	U
Pyrene	ND	0.00119	0.00361	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 69 % 22-135 " " "

**pH in Soil by 9045D**

pH 9.00 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 19.6 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.904 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.09	0.246	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	282	8.47	"	"	"	"	"
Cadmium	0.0855	0.0847	"	"	"	"	"
Copper	ND	8.47	"	"	"	"	"

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**SW-11@3'**

**11/5/2024 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-11 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	<b>6.53</b>		0.847	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Nickel	<b>4.30</b>		0.847	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.0847	"	"	"	"	"	
Zinc	ND		31.3	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.132	0.330	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-12@3'**

**11/5/2024 11:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-12 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.94		0.0985	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	84.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/11/2024	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			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-12@3'**

**11/5/2024 11:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-12 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	116 %	70-130		B4K06 44	11/06/2024	11/11/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.609	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.07	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00114	0.00346	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
2-Methylnaphthalene	ND	0.00114	0.00346	"	"	"	"	"	U
Acenaphthene	ND	0.00114	0.00346	"	"	"	"	"	U
Anthracene	ND	0.00114	0.00346	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00114	0.00346	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00114	0.00346	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00114	0.00346	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00114	0.00346	"	"	"	"	"	U
Chrysene	ND	0.00114	0.00346	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00114	0.00346	"	"	"	"	"	U
Fluoranthene	ND	0.00114	0.00346	"	"	"	"	"	U
Fluorene	ND	0.00114	0.00346	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-12@3'**

**11/5/2024 11:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-12 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00114	0.00346	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
Naphthalene	ND	0.00114	0.00346	"	"	"	"	"	U
Pyrene	ND	0.00114	0.00346	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 48 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.80 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 6.70 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.585 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.04	0.247	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	151	8.52	"	"	"	"	"
Cadmium	ND	0.0852	"	"	"	"	"

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-12@3'**

**11/5/2024 11:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-12 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.52	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>5.51</b>		0.852	"	"	"	"	"	
Nickel	<b>4.29</b>		0.852	"	"	"	"	"	
Selenium	ND		0.221	"	"	"	"	"	
Silver	ND		0.0852	"	"	"	"	"	
Zinc	ND		31.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.127	0.317	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-13@3'**

**11/5/2024 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-13 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.111		0.101	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	82.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-13@3'**

**11/5/2024 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-13 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	110 %	70-130		B4K06 44	11/06/2024	11/08/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.517	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.13	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00111	0.00337	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
2-Methylnaphthalene	ND	0.00111	0.00337	"	"	"	"	"	U
Acenaphthene	ND	0.00111	0.00337	"	"	"	"	"	U
Anthracene	ND	0.00111	0.00337	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00111	0.00337	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00111	0.00337	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00111	0.00337	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00111	0.00337	"	"	"	"	"	U
Chrysene	ND	0.00111	0.00337	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00111	0.00337	"	"	"	"	"	U
Fluoranthene	ND	0.00111	0.00337	"	"	"	"	"	U
Fluorene	ND	0.00111	0.00337	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-13@3'**

**11/5/2024 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-13 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00111	0.00337	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
Naphthalene	ND	0.00111	0.00337	"	"	"	"	"	U
Pyrene	ND	0.00111	0.00337	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 53 % 22-135 " " "

**pH in Soil by 9045D**

pH	8.66			pH Units	1	B4K0740	11/07/2024	11/08/2024	
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**SAR by 20B Saturated Paste**

SAR	1.98		0.0100	SAR	1	B4K0724	11/07/2024	11/11/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.261		0.00500	mmhos/cm	1	B4K0740	11/07/2024	11/08/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.35		0.272	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Barium	151		9.39	"	"	"	"	"	
Cadmium	ND		0.0939	"	"	"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-13@3'**

**11/5/2024 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-13 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.39	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>4.05</b>		0.939	"	"	"	"	"	
Nickel	<b>2.79</b>		0.939	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0939	"	"	"	"	"	
Zinc	ND		34.8	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.115	0.288	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-14@3'**

**11/5/2024 11:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-14 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.180		0.102	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	79.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/11/2024	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			"	"	"	
Surrogate: Toluene-d8	99.9 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-14@3'**

**11/5/2024 11:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-14 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	114 %	70-130		B4K06 44	11/06/2024	11/11/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.679	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.740	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00114	0.00344	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
2-Methylnaphthalene	ND	0.00114	0.00344	"	"	"	"	"	U
Acenaphthene	ND	0.00114	0.00344	"	"	"	"	"	U
Anthracene	ND	0.00114	0.00344	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00114	0.00344	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00114	0.00344	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00114	0.00344	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00114	0.00344	"	"	"	"	"	U
Chrysene	ND	0.00114	0.00344	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00114	0.00344	"	"	"	"	"	U
Fluoranthene	ND	0.00114	0.00344	"	"	"	"	"	U
Fluorene	ND	0.00114	0.00344	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-14@3'**

**11/5/2024 11:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-14 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00114	0.00344	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
Naphthalene	ND	0.00114	0.00344	"	"	"	"	"	U
Pyrene	ND	0.00114	0.00344	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 54 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.54 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 1.11 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.238 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.27	0.273	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	134	9.43	"	"	"	"	"
Cadmium	ND	0.0943	"	"	"	"	"

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**SW-14@3'**

**11/5/2024 11:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-14 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.43	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>3.71</b>		0.943	"	"	"	"	"	
Nickel	<b>3.02</b>		0.943	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	
Silver	ND		0.0943	"	"	"	"	"	
Zinc	ND		34.9	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.105	0.263	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-1@5'**

**11/5/2024 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-15 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.654		0.0987	mg/L	1	B4K0731	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	80.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**BH-1@5'**

**11/5/2024 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-15 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	111 %	70-130				B4K06 44	11/06/2024	11/08/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	6.26	0.499	meq/L	10	[CALC]		11/07/2024	11/11/2024	
Magnesium	2.94	0.823	"	"	"	"	"	"	
Sodium	24.3	0.435	"	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00112	0.00339	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
2-Methylnaphthalene	ND	0.00112	0.00339	"	"	"	"	"	U
Acenaphthene	ND	0.00112	0.00339	"	"	"	"	"	U
Anthracene	ND	0.00112	0.00339	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00112	0.00339	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00112	0.00339	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00112	0.00339	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00112	0.00339	"	"	"	"	"	U
Chrysene	ND	0.00112	0.00339	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00112	0.00339	"	"	"	"	"	U
Fluoranthene	ND	0.00112	0.00339	"	"	"	"	"	U
Fluorene	ND	0.00112	0.00339	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-1@5'**

**11/5/2024 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-15 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00112	0.00339	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
Naphthalene	ND	0.00112	0.00339	"	"	"	"	"	U
Pyrene	ND	0.00112	0.00339	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 51 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.16 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 11.3 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 3.65 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.95	0.273	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	189	9.41	"	"	"	"	"
Cadmium	ND	0.0941	"	"	"	"	"

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**BH-1@5'**

**11/5/2024 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-15 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.41	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>5.46</b>		0.941	"	"	"	"	"	
Nickel	<b>4.22</b>		0.941	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	
Silver	ND		0.0941	"	"	"	"	"	
Zinc	ND		34.8	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.105	0.263	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-2@5'**

**11/5/2024 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-16 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.286		0.0992	mg/L	1	B4K0732	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	80.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/11/2024	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			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-2@5'**

**11/5/2024 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-16 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	115 %	70-130		B4K06 44	11/06/2024	11/11/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.45	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	10.5	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00115	0.00347	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
2-Methylnaphthalene	ND	0.00115	0.00347	"	"	"	"	"	U
Acenaphthene	ND	0.00115	0.00347	"	"	"	"	"	U
Anthracene	ND	0.00115	0.00347	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00115	0.00347	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00115	0.00347	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00115	0.00347	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00115	0.00347	"	"	"	"	"	U
Chrysene	ND	0.00115	0.00347	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00115	0.00347	"	"	"	"	"	U
Fluoranthene	ND	0.00115	0.00347	"	"	"	"	"	U
Fluorene	ND	0.00115	0.00347	"	"	"	"	"	U

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-2@5'**

**11/5/2024 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-16 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00115	0.00347	mg/kg dry	1	2705138	11/14/2024	11/14/2024	U
Naphthalene	ND	0.00115	0.00347	"	"	"	"	"	U
Pyrene	ND	0.00115	0.00347	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane      51 %      22-135      "      "      "

**pH in Soil by 9045D**

pH      8.42      pH Units      1      B4K0740      11/07/2024      11/08/2024

**SAR by 20B Saturated Paste**

SAR      10.7      0.0100      SAR      1      B4K0724      11/07/2024      11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)      1.54      0.00500      mmhos/cm      1      B4K0740      11/07/2024      11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.56	0.271	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	155	9.34	"	"	"	"	"
Cadmium	ND	0.0934	"	"	"	"	"

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-2@5'**

**11/5/2024 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-16 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.34	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>4.18</b>		0.934	"	"	"	"	"	
Nickel	<b>3.43</b>		0.934	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0934	"	"	"	"	"	
Zinc	ND		34.6	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.144	0.361	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-3@5'**

**11/5/2024 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-17 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.770		0.0989	mg/L	1	B4K0732	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	79.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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	111 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**BH-3@5'**

**11/5/2024 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-17 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	110 %	70-130				B4K06 44	11/06/2024	11/08/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	5.42	0.499	meq/L	10	[CALC]		11/07/2024	11/11/2024	
Magnesium	1.75	0.823	"	"	"	"	"	"	
Sodium	11.0	0.435	"	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00118	0.00357	mg/kg dry	1	2705138	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00118	0.00357	"	"	"	"	"	U
Acenaphthene	ND	0.00118	0.00357	"	"	"	"	"	U
Anthracene	ND	0.00118	0.00357	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00118	0.00357	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00118	0.00357	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00118	0.00357	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00118	0.00357	"	"	"	"	"	U
Chrysene	ND	0.00118	0.00357	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00118	0.00357	"	"	"	"	"	U
Fluoranthene	ND	0.00118	0.00357	"	"	"	"	"	U
Fluorene	ND	0.00118	0.00357	"	"	"	"	"	U

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**BH-3@5'**

**11/5/2024 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC  
E4K0128-17 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00118	0.00357	mg/kg dry	1	2705138	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00118	0.00357	"	"	"	"	"	U
Pyrene	ND	0.00118	0.00357	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 53 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.17 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 5.79 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 2.10 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.05	0.246	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	359	8.48	"	"	"	"	"
Cadmium	0.106	0.0848	"	"	"	"	"
Copper	ND	8.48	"	"	"	"	"

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**BH-3@5'**

**11/5/2024 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-17 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	5.42		0.848	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Nickel	5.28		0.848	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.0848	"	"	"	"	"	
Zinc	ND		31.4	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.141	0.352	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**BH-4@5'**

**11/5/2024 11:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-18 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.582		0.0988	mg/L	1	B4K0732	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	50.8		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	80.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/08/2024	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	0.298		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-4@5'**

**11/5/2024 11:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-18 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	109 %	70-130			B4K06 44	11/06/2024	11/08/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.49	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	1.08	0.823	"	"	"	"	"
Sodium	5.65	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00125	0.00379	mg/kg dry	1	2705138	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00125	0.00379	"	"	"	"	"	U
Acenaphthene	ND	0.00125	0.00379	"	"	"	"	"	U
Anthracene	ND	0.00125	0.00379	"	"	"	"	"	U
Benzo(a)anthracene	<b>0.00720</b>	<b>0.00125</b>	0.00379	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00125	0.00379	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00125	0.00379	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00125	0.00379	"	"	"	"	"	U
Chrysene	<b>0.00379</b>	<b>0.00125</b>	0.00379	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.00125	0.00379	"	"	"	"	"	U
Fluoranthene	<b>0.00227</b>	<b>0.00125</b>	0.00379	"	"	"	"	"	J
Fluorene	<b>0.00947</b>	<b>0.00125</b>	0.00379	"	"	"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-4@5'**

**11/5/2024 11:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-18 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00125	0.00379	mg/kg dry	1	2705138	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00125	0.00379	"	"	"	"	"	U
Pyrene	<b>0.00379</b>	<b>0.00125</b>	0.00379	"	"	"	"	"	

Surrogate: 5-alpha-Androstane      46 %      22-135      "      "      "

**pH in Soil by 9045D**

pH      8.13      pH Units      1      B4K0740      11/07/2024      11/08/2024

**SAR by 20B Saturated Paste**

SAR      3.74      0.0100      SAR      1      B4K0724      11/07/2024      11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)      1.31      0.00500      mmhos/cm      1      B4K0740      11/07/2024      11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.28	0.243	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	<b>244</b>	8.38	"	"	"	"	"
Cadmium	<b>0.113</b>	0.0838	"	"	"	"	"
Copper	ND	8.38	"	"	"	"	"

Origins Laboratory



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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**BH-4@5'**

**11/5/2024 11:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-18 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	6.03		0.838	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Nickel	5.43		0.838	"	"	"	"	"	
Selenium	ND		0.218	"	"	"	"	"	
Silver	ND		0.0838	"	"	"	"	"	
Zinc	ND		31.0	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.130	0.324	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-5@5'**

**11/5/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-19 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.27		0.0980	mg/L	1	B4K0732	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	74.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/11/2024	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			"	"	"	
Surrogate: Toluene-d8	99.2 %		70-130			"	"	"	

Origins Laboratory



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Fundare  
 1613 Propect Park Way Suite 120  
 Fort Collins CO 80525

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

**BH-5@5'**

**11/5/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-19 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	113 %	70-130		B4K06 44	11/06/2024	11/11/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.04	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	1.35	0.823	"	"	"	"	"
Sodium	19.6	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00114	0.00344	mg/kg dry	1	2705138	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00114	0.00344	"	"	"	"	"	U
Acenaphthene	ND	0.00114	0.00344	"	"	"	"	"	U
Anthracene	ND	0.00114	0.00344	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00114	0.00344	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00114	0.00344	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00114	0.00344	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00114	0.00344	"	"	"	"	"	U
Chrysene	ND	0.00114	0.00344	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00114	0.00344	"	"	"	"	"	U
Fluoranthene	ND	0.00114	0.00344	"	"	"	"	"	U
Fluorene	ND	0.00114	0.00344	"	"	"	"	"	U

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Fundare  
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 Fort Collins CO 80525

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

**BH-5@5'**

**11/5/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-19 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00114	0.00344	mg/kg dry	1	2705138	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00114	0.00344	"	"	"	"	"	U
Pyrene	ND	0.00114	0.00344	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 63 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.34 pH Units 1 B4K0740 11/07/2024 11/08/2024

**SAR by 20B Saturated Paste**

SAR 13.2 0.0100 SAR 1 B4K0724 11/07/2024 11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 2.71 0.00500 mmhos/cm 1 B4K0740 11/07/2024 11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	1.81	0.282	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	155	9.74	"	"	"	"	"
Cadmium	ND	0.0974	"	"	"	"	"

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

**BH-5@5'**

**11/5/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-19 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.74	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Lead	<b>4.58</b>		0.974	"	"	"	"	"	
Nickel	<b>3.89</b>		0.974	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0974	"	"	"	"	"	
Zinc	ND		36.0	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.110	0.276	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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Fort Collins CO 80525

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

**BH-6@5'**

**11/5/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-20 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.65		0.0990	mg/L	1	B4K0732	11/07/2024	11/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0701	11/07/2024	11/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	71.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0644	11/06/2024	11/11/2024	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			"	"	"	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	

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 Fort Collins CO 80525

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

**BH-6@5'**

**11/5/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0128-20 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	116 %	70-130		B4K06 44	11/06/2024	11/11/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.31	0.499	meq/L	10	[CALC]	11/07/2024	11/11/2024
Magnesium	1.06	0.823	"	"	"	"	"
Sodium	13.8	0.435	"	"	"	"	"

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00128	0.00389	mg/kg dry	1	2705138	11/14/2024	11/15/2024	U
2-Methylnaphthalene	ND	0.00128	0.00389	"	"	"	"	"	U
Acenaphthene	ND	0.00128	0.00389	"	"	"	"	"	U
Anthracene	ND	0.00128	0.00389	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00128	0.00389	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00128	0.00389	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00128	0.00389	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00128	0.00389	"	"	"	"	"	U
Chrysene	ND	0.00128	0.00389	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00128	0.00389	"	"	"	"	"	U
Fluoranthene	ND	0.00128	0.00389	"	"	"	"	"	U
Fluorene	ND	0.00128	0.00389	"	"	"	"	"	U

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 Fort Collins CO 80525

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

**BH-6@5'**

**11/5/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E4K0128-20 (Soil)**

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00128	0.00389	mg/kg dry	1	2705138	11/14/2024	11/15/2024	U
Naphthalene	ND	0.00128	0.00389	"	"	"	"	"	U
Pyrene	ND	0.00128	0.00389	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane      51 %      22-135      "      "      "

**pH in Soil by 9045D**

pH      8.23      pH Units      1      B4K0740      11/07/2024      11/08/2024

**SAR by 20B Saturated Paste**

SAR      9.36      0.0100      SAR      1      B4K0724      11/07/2024      11/11/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)      2.18      0.00500      mmhos/cm      1      B4K0740      11/07/2024      11/08/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.09	0.278	mg/kg	10	B4K0711	11/07/2024	11/08/2024
Barium	461	9.59	"	"	"	"	"
Cadmium	0.151	0.0959	"	"	"	"	"
Copper	ND	9.59	"	"	"	"	"

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1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**BH-6@5'**

**11/5/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0128-20 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	<b>5.88</b>		0.959	mg/kg	10	B4K0711	11/07/2024	11/08/2024	
Nickel	<b>5.52</b>		0.959	"	"	"	"	"	
Selenium	ND		0.249	"	"	"	"	"	
Silver	ND		0.0959	"	"	"	"	"	
Zinc	ND		35.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.154	0.386	mg/kg dry	1	2708188	11/19/2024	11/19/2024	U
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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**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0644 - EPA 5030 (soil)**

**Blank (B4K0644-BLK1)**

Prepared: 11/06/2024 Analyzed: 11/08/2024

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	96.3		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	116		70-130			

Origins Laboratory

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Fundare  
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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**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0644 - EPA 5030 (soil)**

**LCS (B4K0644-BS1)**

Prepared: 11/06/2024 Analyzed: 11/08/2024

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.9</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.5</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>92.9</i>	<i>70-130</i>			

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Fundare  
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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**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0644 - EPA 5030 (soil)**

<b>Matrix Spike (B4K0644-MS1)</b>	<b>Source: E4K0128-01</b>			<b>Prepared: 11/06/2024 Analyzed: 11/08/2024</b>						
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.215	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

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Fundare  
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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**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0644 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B4K0644-MSD1)</b>	<b>Source: E4K0128-01</b>		<b>Prepared: 11/06/2024 Analyzed: 11/08/2024</b>							
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	4.94	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	5.02	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	1.42	20	
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	7.04	20	
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130	1.08	20	
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	1.27	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	4.39	20	
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130	5.96	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	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**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K0701 - EPA 3550B</b>										
<b>Blank (B4K0701-BLK1)</b>										
					Prepared: 11/07/2024 Analyzed: 11/07/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

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

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0701 - EPA 3550B**

**LCS (B4K0701-BS1)**

Prepared: 11/07/2024 Analyzed: 11/07/2024

Diesel (C10-C28)	890	50.0	mg/kg	1000		89.0	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.7	50-150			

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

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0701 - EPA 3550B**

<b>Matrix Spike (B4K0701-MS1)</b>	<b>Source: E4K0128-01</b>			Prepared: 11/07/2024 Analyzed: 11/07/2024						
Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	56.7	98.0	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K0701 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4K0701-MSD1)</b>					<b>Source: E4K0128-01</b>					Prepared: 11/07/2024 Analyzed: 11/07/2024
Diesel (C10-C28)	909	50.0	mg/kg	1000	ND	90.9	70-130	4.73	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	56.7	101	70-130	2.81	35	
Surrogate: o-Terphenyl	42		"	49.8		84.0	50-150			

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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**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0711 - EPA 3050B**

**Blank (B4K0711-BLK1)**

Prepared: 11/07/2024 Analyzed: 11/08/2024

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 (B4K0711-BS1)**

Prepared: 11/07/2024 Analyzed: 11/08/2024

Arsenic	4.99	0.290	mg/kg	5.00		99.9	80-120			
Barium	518	10.0	"	500		104	80-120			
Cadmium	5.28	0.100	"	5.00		106	80-120			
Copper	53.3	10.0	"	50.0		107	80-120			
Lead	5.46	1.00	"	5.00		109	80-120			
Nickel	5.68	1.00	"	5.00		114	80-120			
Selenium	5.26	0.260	"	5.00		105	80-120			
Silver	5.43	0.100	"	5.00		109	80-120			
Zinc	49.5	37.0	"	50.0		99.0	80-120			

**Matrix Spike (B4K0711-MS1)**

**Source: E4K0128-01**

Prepared: 11/07/2024 Analyzed: 11/08/2024

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Fort Collins CO 80525

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0711 - EPA 3050B**

<b>Matrix Spike (B4K0711-MS1)</b>		<b>Source: E4K0128-01</b>			<b>Prepared: 11/07/2024 Analyzed: 11/08/2024</b>					
Arsenic	6.16	0.251	mg/kg	4.34	1.76	101	75-125			
Barium	656	8.67	"	434	170	112	75-125			
Cadmium	4.71	0.0867	"	4.34	0.0668	107	75-125			
Copper	52.0	8.67	"	43.4	4.37	110	75-125			
Lead	9.92	0.867	"	4.34	8.92	23.1	75-125			QM-07
Nickel	8.73	0.867	"	4.34	3.62	118	75-125			
Selenium	5.07	0.225	"	4.34	0.102	115	75-125			
Silver	4.75	0.0867	"	4.34	ND	109	75-125			
Zinc	60.9	32.1	"	43.4	15.5	105	75-125			

<b>Matrix Spike Dup (B4K0711-MSD1)</b>		<b>Source: E4K0128-01</b>			<b>Prepared: 11/07/2024 Analyzed: 11/08/2024</b>					
Arsenic	6.27	0.262	mg/kg	4.52	1.76	99.9	75-125	1.76	20	
Barium	680	9.03	"	452	170	113	75-125	3.57	20	
Cadmium	4.89	0.0903	"	4.52	0.0668	107	75-125	3.72	20	
Copper	53.2	9.03	"	45.2	4.37	108	75-125	2.26	20	
Lead	9.96	0.903	"	4.52	8.92	22.9	75-125	0.331	20	QM-07
Nickel	8.60	0.903	"	4.52	3.62	110	75-125	1.44	20	
Selenium	5.27	0.235	"	4.52	0.102	115	75-125	4.00	20	
Silver	4.89	0.0903	"	4.52	ND	108	75-125	2.97	20	
Zinc	61.3	33.4	"	45.2	15.5	101	75-125	0.652	20	

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

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0723 - Saturated Paste Metals**

**Blank (B4K0723-BLK1)**

Prepared: 11/07/2024 Analyzed: 11/11/2024

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

**Duplicate (B4K0723-DUP1)**

Source: E4K0117-01

Prepared: 11/07/2024 Analyzed: 11/11/2024

Calcium PPM	5.13	10.0	mg/L		5.00			2.57	50	
SAR	ND	0.0100	SAR		1.55				200	
Magnesium PPM	1.46	10.0	mg/L		1.54			5.33	50	
Sodium PPM	15.2	10.0	"		15.5			1.89	50	

**Batch B4K0724 - Saturated Paste Metals**

**Blank (B4K0724-BLK1)**

Prepared: 11/07/2024 Analyzed: 11/11/2024

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 (B4K0724-DUP1)**

Source: E4K0128-06

Prepared: 11/07/2024 Analyzed: 11/11/2024

Calcium PPM	8.92	10.0	mg/L		7.30			20.0	50	
SAR	ND	0.0100	SAR		1.88				200	
Magnesium PPM	2.78	10.0	mg/L		2.37			15.9	50	
Sodium PPM	26.4	10.0	"		22.8			14.6	50	

**Batch B4K0731 - DTPA Sorbitol Preparation**

**Blank (B4K0731-BLK1)**

Prepared: 11/07/2024 Analyzed: 11/08/2024

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 Project Number: [none]  
 Project: Horsetail 07F

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K0731 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4K0731-BLK1)</b>					Prepared: 11/07/2024 Analyzed: 11/08/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4K0731-DUP1)</b>		<b>Source: E4K0117-10</b>			Prepared: 11/07/2024 Analyzed: 11/08/2024					
Boron	0.704	0.0992	mg/L		0.798			12.5	50	
<b>Batch B4K0732 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4K0732-BLK1)</b>					Prepared: 11/07/2024 Analyzed: 11/08/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4K0732-DUP1)</b>		<b>Source: E4K0128-16</b>			Prepared: 11/07/2024 Analyzed: 11/08/2024					
Boron	0.267	0.0980	mg/L		0.286			6.82	50	

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 Project Number: [none]  
 Project: Horsetail 07F

**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0739 - Saturated Paste pH/EC**

**Blank (B4K0739-BLK1)**

Prepared: 11/07/2024 Analyzed: 11/08/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4K0739-DUP1)**

**Source: E4K0117-01**

Prepared: 11/07/2024 Analyzed: 11/08/2024

Specific Conductance (EC)	0.159	0.00500	mmhos/cm	0.150	5.31	25
pH	7.74		pH Units	7.72	0.259	25

**Batch B4K0740 - Saturated Paste pH/EC**

**Blank (B4K0740-BLK1)**

Prepared: 11/07/2024 Analyzed: 11/08/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4K0740-DUP1)**

**Source: E4K0128-06**

Prepared: 11/07/2024 Analyzed: 11/08/2024

pH	8.68		pH Units	8.84	1.83	25
Specific Conductance (EC)	0.367	0.00500	mmhos/cm	0.321	13.4	25

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 Project Number: [none]  
 Project: Horsetail 07F

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2705138 - SW846 3541

**BLANK (1205918509-BLK)**

Prepared: 11/14/2024 Analyzed: 11/14/2024

Benzo(a)anthracene	ND	0.00332	mg/kg				-			U
Pyrene	ND	0.00332	"				-			U
Naphthalene	ND	0.00332	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00332	"				-			U
Fluorene	ND	0.00332	"				-			U
Fluoranthene	ND	0.00332	"				-			U
Dibenzo(a,h)anthracene	ND	0.00332	"				-			U
Chrysene	ND	0.00332	"				-			U
Benzo(k)fluoranthene	ND	0.00332	"				-			U
Benzo(a)pyrene	ND	0.00332	"				-			U
Anthracene	ND	0.00332	"				-			U
Acenaphthene	ND	0.00332	"				-			U
2-Methylnaphthalene	ND	0.00332	"				-			U
1-Methylnaphthalene	ND	0.00332	"				-			U
Benzo(b)fluoranthene	ND	0.00332	"				-			U

Surrogate: 5-alpha-Androstane

0.101

"

0.166

61

22-135

**LCS (1205918510-BKS)**

Prepared: 11/14/2024 Analyzed: 11/14/2024

Pyrene	0.209	0.00331	mg/kg	0.331		63	38-117			
Naphthalene	0.184	0.00331	"	0.331		55	38-109			
Indeno(1,2,3-cd)pyrene	0.204	0.00331	"	0.331		62	38-133			
Fluorene	0.191	0.00331	"	0.331		58	37-115			
Fluoranthene	0.211	0.00331	"	0.331		64	39-119			
Dibenzo(a,h)anthracene	0.200	0.00331	"	0.331		60	38-132			
Chrysene	0.219	0.00331	"	0.331		66	42-117			
Benzo(k)fluoranthene	0.204	0.00331	"	0.331		61	40-122			
Benzo(b)fluoranthene	0.205	0.00331	"	0.331		62	39-123			

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 Fort Collins CO 80525

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

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2705138 - SW846 3541</b>										
<b>LCS (1205918510-BKS)</b>					Prepared: 11/14/2024 Analyzed: 11/14/2024					
Benzo(a)pyrene	0.222	0.00331	mg/kg	0.331		67	39-127			
Benzo(a)anthracene	0.223	0.00331	"	0.331		67	42-120			
1-Methylnaphthalene	0.187	0.00331	"	0.331		56	39-109			
Acenaphthene	0.195	0.00331	"	0.331		59	41-112			
2-Methylnaphthalene	0.193	0.00331	"	0.331		58	39-110			
Anthracene	0.210	0.00331	"	0.331		63	41-117			
<i>Surrogate: 5-alpha-Androstane</i>	0.0994		"	0.166		60	22-135			
<b>MS (1205918511 S)</b>					<b>Source: 695289001</b>		Prepared: 11/14/2024 Analyzed: 11/14/2024			
Benzo(b)fluoranthene	0.231	0.00400	mg/kg dry	0.400	<0.00132	58	14-136			
Naphthalene	0.207	0.00400	"	0.400	<0.00132	52	16-126			
Indeno(1,2,3-cd)pyrene	0.230	0.00400	"	0.400	<0.00132	58	13-134			
Fluorene	0.217	0.00400	"	0.400	<0.00132	54	16-134			
Chrysene	0.245	0.00400	"	0.400	<0.00132	61	19-129			
Fluoranthene	0.238	0.00400	"	0.400	<0.00132	59	14-136			
Benzo(k)fluoranthene	0.229	0.00400	"	0.400	<0.00132	57	18-138			
Benzo(a)pyrene	0.251	0.00400	"	0.400	<0.00132	63	16-133			
Benzo(a)anthracene	0.251	0.00400	"	0.400	<0.00132	63	20-132			
Anthracene	0.235	0.00400	"	0.400	<0.00132	59	18-136			
Pyrene	0.235	0.00400	"	0.400	<0.00132	59	12-139			
Acenaphthene	0.219	0.00400	"	0.400	<0.00132	55	17-129			
1-Methylnaphthalene	0.211	0.00400	"	0.400	<0.00132	53	15-129			
2-Methylnaphthalene	0.219	0.00400	"	0.400	<0.00132	55	15-132			
Dibenzo(a,h)anthracene	0.227	0.00400	"	0.400	<0.00132	57	11-134			
<i>Surrogate: 5-alpha-Androstane</i>	0.108		"	0.200	0.0921	54	22-135			
<b>MSD (1205918512 SD)</b>					<b>Source: 695289001</b>		Prepared: 11/14/2024 Analyzed: 11/14/2024			

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

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2705138 - SW846 3541

MSD (1205918512 SD)	Source: 695289001			Prepared: 11/14/2024 Analyzed: 11/14/2024						
Benzo(k)fluoranthene	0.129	0.00393	mg/kg dry	0.393	<0.00130	33	18-138	56	30	
Pyrene	0.130	0.00393	"	0.393	<0.00130	33	12-139	57	30	
Naphthalene	0.108	0.00393	"	0.393	<0.00130	27	16-126	63	30	
Indeno(1,2,3-cd)pyrene	0.131	0.00393	"	0.393	<0.00130	33	13-134	55	30	
Fluorene	0.117	0.00393	"	0.393	<0.00130	30	16-134	60	30	
Fluoranthene	0.132	0.00393	"	0.393	<0.00130	34	14-136	57	30	
Dibenzo(a,h)anthracene	0.127	0.00393	"	0.393	<0.00130	32	11-134	56	30	
Benzo(a)pyrene	0.142	0.00393	"	0.393	<0.00130	36	16-133	56	30	
Benzo(b)fluoranthene	0.130	0.00393	"	0.393	<0.00130	33	14-136	56	30	
1-Methylnaphthalene	0.113	0.00393	"	0.393	<0.00130	29	15-129	60	30	
Benzo(a)anthracene	0.138	0.00393	"	0.393	<0.00130	35	20-132	58	30	
Anthracene	0.126	0.00393	"	0.393	<0.00130	32	18-136	60	30	
Acenaphthene	0.115	0.00393	"	0.393	<0.00130	29	17-129	62	30	
2-Methylnaphthalene	0.117	0.00393	"	0.393	<0.00130	30	15-132	61	30	
Chrysene	0.135	0.00393	"	0.393	<0.00130	34	19-129	58	30	
Surrogate: 5-alpha-Androstane	0.0539		"	0.197	0.0921	27	22-135			

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

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2705131 - SW846 3541**

**BLANK (1205918498-BLK)**

Prepared: 11/14/2024 Analyzed: 11/15/2024

Chrysene	0.00164	0.00328	mg/kg				-			J
Fluoranthene	ND	0.00328	"				-			U
1-Methylnaphthalene	ND	0.00328	"				-			U
Pyrene	ND	0.00328	"				-			U
Naphthalene	ND	0.00328	"				-			U
Fluorene	ND	0.00328	"				-			U
Dibenzo(a,h)anthracene	ND	0.00328	"				-			U
Benzo(b)fluoranthene	ND	0.00328	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00328	"				-			U
2-Methylnaphthalene	ND	0.00328	"				-			U
Benzo(k)fluoranthene	ND	0.00328	"				-			U
Acenaphthene	ND	0.00328	"				-			U
Anthracene	ND	0.00328	"				-			U
Benzo(a)anthracene	ND	0.00328	"				-			U
Benzo(a)pyrene	ND	0.00328	"				-			U

Surrogate: 5-alpha-Androstane

0.129

"

0.164

79

22-135

**LCS (1205918499-BKS)**

Prepared: 11/14/2024 Analyzed: 11/15/2024

Chrysene	0.310	0.00331	mg/kg	0.331		94	42-117			B
Acenaphthene	0.285	0.00331	"	0.331		86	41-112			
Naphthalene	0.268	0.00331	"	0.331		81	38-109			
Indeno(1,2,3-cd)pyrene	0.291	0.00331	"	0.331		88	38-133			
Fluorene	0.279	0.00331	"	0.331		84	37-115			
Fluoranthene	0.306	0.00331	"	0.331		92	39-119			
Dibenzo(a,h)anthracene	0.284	0.00331	"	0.331		86	38-132			
Pyrene	0.301	0.00331	"	0.331		91	38-117			
2-Methylnaphthalene	0.276	0.00331	"	0.331		83	39-110			

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

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2705131 - SW846 3541**

**LCS (1205918499-BKS)**

Prepared: 11/14/2024 Analyzed: 11/15/2024

Benzo(b)fluoranthene	0.299	0.00331	mg/kg	0.331		90	39-123			
Benzo(a)pyrene	0.315	0.00331	"	0.331		95	39-127			
Anthracene	0.301	0.00331	"	0.331		91	41-117			
Benzo(k)fluoranthene	0.289	0.00331	"	0.331		87	40-122			
Benzo(a)anthracene	0.316	0.00331	"	0.331		95	42-120			
1-Methylnaphthalene	0.267	0.00331	"	0.331		81	39-109			
<i>Surrogate: 5-alpha-Androstane</i>	0.125		"	0.166		75	22-135			

**MS (1205918500 S)**

**Source: E4K0128-01**

Prepared: 11/14/2024 Analyzed: 11/15/2024

Dibenzo(a,h)anthracene	0.283	0.00340	mg/kg dry	0.340	<0.00112	83	11-134			
Pyrene	0.300	0.00340	"	0.340	<0.00112	88	12-139			
Fluoranthene	0.305	0.00340	"	0.340	<0.00112	90	14-136			
Fluorene	0.277	0.00340	"	0.340	<0.00112	82	16-134			
Naphthalene	0.254	0.00340	"	0.340	<0.00112	75	16-126			
Acenaphthene	0.280	0.00340	"	0.340	<0.00112	82	17-129			
Chrysene	0.311	0.00340	"	0.340	<0.00112	91	19-129			B
Indeno(1,2,3-cd)pyrene	0.291	0.00340	"	0.340	<0.00112	86	13-134			
Benzo(b)fluoranthene	0.294	0.00340	"	0.340	<0.00112	87	14-136			
Benzo(a)pyrene	0.316	0.00340	"	0.340	<0.00112	93	16-133			
Anthracene	0.300	0.00340	"	0.340	<0.00112	88	18-136			
2-Methylnaphthalene	0.266	0.00340	"	0.340	<0.00112	78	15-132			
1-Methylnaphthalene	0.256	0.00340	"	0.340	<0.00112	75	15-129			
Benzo(a)anthracene	0.315	0.00340	"	0.340	<0.00112	93	20-132			
Benzo(k)fluoranthene	0.293	0.00340	"	0.340	<0.00112	86	18-138			
<i>Surrogate: 5-alpha-Androstane</i>	0.128		"	0.170	0.120	75	22-135			

**MSD (1205918501 SD)**

**Source: E4K0128-01**

Prepared: 11/14/2024 Analyzed: 11/15/2024

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Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

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

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2705131 - SW846 3541</b>										
<b>MSD (1205918501 SD)</b>	<b>Source: E4K0128-01</b>			<b>Prepared: 11/14/2024 Analyzed: 11/15/2024</b>						
Naphthalene	0.294	0.00338	mg/kg dry	0.338	<0.00112	87	16-126	14	30	
Benzo(b)fluoranthene	0.327	0.00338	"	0.338	<0.00112	97	14-136	11	30	
Benzo(k)fluoranthene	0.324	0.00338	"	0.338	<0.00112	96	18-138	10	30	
Chrysene	0.345	0.00338	"	0.338	<0.00112	102	19-129	10	30	B
Dibenzo(a,h)anthracene	0.310	0.00338	"	0.338	<0.00112	92	11-134	9	30	
Fluoranthene	0.336	0.00338	"	0.338	<0.00112	99	14-136	10	30	
Benzo(a)pyrene	0.351	0.00338	"	0.338	<0.00112	104	16-133	11	30	
Indeno(1,2,3-cd)pyrene	0.329	0.00338	"	0.338	<0.00112	97	13-134	12	30	
1-Methylnaphthalene	0.291	0.00338	"	0.338	<0.00112	86	15-129	13	30	
Pyrene	0.328	0.00338	"	0.338	<0.00112	97	12-139	9	30	
Fluorene	0.299	0.00338	"	0.338	<0.00112	88	16-134	7	30	
Benzo(a)anthracene	0.352	0.00338	"	0.338	<0.00112	104	20-132	11	30	
Anthracene	0.328	0.00338	"	0.338	<0.00112	97	18-136	9	30	
Acenaphthene	0.305	0.00338	"	0.338	<0.00112	90	17-129	9	30	
2-Methylnaphthalene	0.301	0.00338	"	0.338	<0.00112	89	15-132	13	30	
Surrogate: 5-alpha-Androstane	0.127		"	0.169	0.120	75	22-135			

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 Fort Collins CO 80525

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2708188 - SW846 3060A</b>										
<b>BLANK (1205924493-BLK)</b>					Prepared: 11/19/2024 Analyzed: 11/19/2024					
Hexavalent Chromium	ND	0.359	mg/kg				-			U
<b>LCS (1205924494-BKS)</b>					Prepared: 11/19/2024 Analyzed: 11/19/2024					
Hexavalent Chromium	3.41	0.346	mg/kg	3.46		98.3	80-120			
<b>DUP (1205924495 D)</b>					Prepared: 11/19/2024 Analyzed: 11/19/2024					
<b>Source: E4K0128-01</b>										
Hexavalent Chromium	ND	0.352	mg/kg dry		<0.141		0-50	N/A	50	U
<b>MS (1205924496 S)</b>					Prepared: 11/19/2024 Analyzed: 11/19/2024					
<b>Source: E4K0128-01</b>										
Hexavalent Chromium	3.03	0.352	mg/kg dry	3.52	<0.141	83.8	75-125			
<b>DUP (1205924497 D)</b>					Prepared: 11/19/2024 Analyzed: 11/19/2024					
<b>Source: E4K0128-02</b>										
Hexavalent Chromium	ND	0.299	mg/kg dry		<0.120		0-50	N/A	50	U
<b>MS (1205924498 S)</b>					Prepared: 11/19/2024 Analyzed: 11/19/2024					
<b>Source: E4K0128-02</b>										
Hexavalent Chromium	2.27	0.299	mg/kg dry	2.99	<0.120	72.6	75-125			
<b>ILCS (1205924499-ILCS)</b>					Prepared: 11/19/2024 Analyzed: 11/19/2024					
<b>Source: E4K0128-02</b>										
Hexavalent Chromium	7.22	0.325	mg/kg	6.50		111	80-120			

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Project Number: [none]  
Project: Horsetail 07F

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**Notes and Definitions**

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Greater than the detection limit but less than the reporting limit
- BJ Blank contamination. Greater than the detection limit but less than the reporting limit
- B Blank contamination
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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