

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 10, 2024

Stephen Weathers

Phillips 66

6900 E Layton Ave/ Suite 900

Denver, CO 80237

RE: Four Parmlee (H-6-9) 3/2024

Work Order #2410114

Enclosed are the results of analyses for samples received by Summit Scientific on 10/07/24 17:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Phillips 66
6900 E Layton Ave/ Suite 900
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW05@44'	2410114-01	Soil	10/07/24 10:24	10/07/24 17:56
MW05@58'	2410114-02	Soil	10/07/24 11:15	10/07/24 17:56

Summit Scientific

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.

Client: <u>Tasman</u> <u>DCP/P66</u>		Send Data To:		Send Invoice To:	
Address: <u>6855 W 119th Ave</u>		Project Manager: <u>Stephen Weathers, Brian Humphrey</u>		Company: <u>Tasman</u>	
City/State/Zip: <u>Broomfield / CO / 80220</u>		E-Mail: <u>Stephen.Weathers@p66.com</u>		Project Name/Location: <u>Four Parmlee</u>	
Phone: <u>303-487-1228</u>		bhumphrey@tasman-geo.com		AFE#:	
Sampler Name: <u>B. Ulrich</u>		Project Name: <u>Four Parmlee (H-6-a) 03/2024</u>		PO/Billing Codes:	
		Project Number:		Contact: <u>Brian Humphrey</u>	

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other										
1	MW 05e44'	10-7-24	1204 PM	2			X			X			X									
2	MW 05e58'	↓	1115	↓			↓			↓			↓									
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10-7-24 1615</u>	Received by: <u>Tasman Lab</u>	Date/Time: <u>10-7-24 1615</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>Tasman Lab</u>	Date/Time: <u>10-7-24 1750</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10-7-24 1750</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>10.9</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2410114Client: DEP/POC Client Project ID: Four Parmlee (H-6-9) 03/2024Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil ☒ Solid ☐ Water ☐ Other ☐Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	and CE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

SU

Custodian Printed Name

10/7/24

Date/Time



Phillips 66
6900 E Layton Ave/ Suite 900
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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

MW05@44'
2410114-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0314	10/08/24	10/09/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0376	93.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0315	10/08/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.9	95.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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MW05@44'
2410114-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0285	10/08/24	10/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	60.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHJ0298	10/08/24	10/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project Number: [none]
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MW05@44'
2410114-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.98	0.200	mg/kg dry	1	BHJ0336	10/09/24	10/10/24	EPA 6020B
Barium	26.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.03	0.400	"	"	"	"	"	"
Lead	3.81	0.200	"	"	"	"	"	"
Nickel	1.88	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0292	10/08/24	10/08/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.2	0.0500	mg/L dry	1	BHJ0311	10/08/24	10/09/24	EPA 6020B	
Magnesium	6.12	0.0500	"	"	"	"	"	"	
Sodium	1.72	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0737	0.00100	units	1	BHJ0371	10/10/24	10/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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MW05@44'
2410114-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	93.1			%	1	BHJ0290	10/08/24	10/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0274	0.0100		mmhos/cm	1	BHJ0313	10/08/24	10/09/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **10/07/24 10:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.17			pH Units	1	BHJ0312	10/08/24	10/09/24	EPA 9045D	

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
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Reported:
10/10/24 16:26

MW05@58'
2410114-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0314	10/08/24	10/09/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	95.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0315	10/08/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.4	99.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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10/10/24 16:26

MW05@58'
2410114-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0285	10/08/24	10/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHJ0298	10/08/24	10/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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10/10/24 16:26

MW05@58'
2410114-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.51	0.200	mg/kg dry	1	BHJ0336	10/09/24	10/10/24	EPA 6020B
Barium	38.2	0.400	"	"	"	"	"	"
Cadmium	0.260	0.200	"	"	"	"	"	"
Copper	15.1	0.400	"	"	"	"	"	"
Lead	15.0	0.200	"	"	"	"	"	"
Nickel	24.4	0.400	"	"	"	"	"	"
Silver	0.120	0.0200	"	"	"	"	"	"
Zinc	79.1	0.400	"	"	"	"	"	"
Selenium	0.348	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0292	10/08/24	10/08/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	172	0.0500	mg/L dry	1	BHJ0311	10/08/24	10/09/24	EPA 6020B	
Magnesium	21.8	0.0500	"	"	"	"	"	"	
Sodium	5.37	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.103	0.00100	units	1	BHJ0371	10/10/24	10/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

MW05@58'
2410114-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.3	%	1	BHJ0290	10/08/24	10/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BHJ0313	10/08/24	10/09/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **10/07/24 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.89		pH Units	1	BHJ0312	10/08/24	10/09/24	EPA 9045D	

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0314 - EPA 5030 Soil MS

Blank (BHJ0314-BLK1)

Prepared & Analyzed: 10/08/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	50-150			

LCS (BHJ0314-BS1)

Prepared & Analyzed: 10/08/24

Benzene	0.140	0.0020	mg/kg	0.150		93.2	70-130			
Toluene	0.139	0.0050	"	0.150		92.8	70-130			
Ethylbenzene	0.141	0.0050	"	0.150		93.9	70-130			
m,p-Xylene	0.284	0.010	"	0.300		94.8	70-130			
o-Xylene	0.147	0.0050	"	0.150		97.9	70-130			
1,2,4-Trimethylbenzene	0.139	0.0050	"	0.150		92.8	70-130			
1,3,5-Trimethylbenzene	0.140	0.0050	"	0.150		93.4	70-130			
Naphthalene	0.148	0.0038	"	0.150		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Matrix Spike (BHJ0314-MS1)

Source: 2410069-01

Prepared & Analyzed: 10/08/24

Benzene	0.128	0.0020	mg/kg	0.150	ND	85.1	70-130			
Toluene	0.126	0.0050	"	0.150	ND	83.8	70-130			
Ethylbenzene	0.125	0.0050	"	0.150	ND	83.3	70-130			
m,p-Xylene	0.249	0.010	"	0.300	ND	83.1	70-130			
o-Xylene	0.126	0.0050	"	0.150	ND	83.8	70-130			
1,2,4-Trimethylbenzene	0.137	0.0050	"	0.150	ND	91.6	70-130			
1,3,5-Trimethylbenzene	0.138	0.0050	"	0.150	ND	92.3	70-130			
Naphthalene	0.147	0.0038	"	0.150	ND	98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		103	50-150			

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0314 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0314-MSD1)		Source: 2410069-01			Prepared & Analyzed: 10/08/24					
Benzene	0.142	0.0020	mg/kg	0.150	ND	94.9	70-130	10.9	30	
Toluene	0.139	0.0050	"	0.150	ND	92.7	70-130	10.1	30	
Ethylbenzene	0.128	0.0050	"	0.150	ND	85.0	70-130	2.04	30	
m,p-Xylene	0.256	0.010	"	0.300	ND	85.4	70-130	2.75	30	
o-Xylene	0.129	0.0050	"	0.150	ND	85.7	70-130	2.24	30	
1,2,4-Trimethylbenzene	0.139	0.0050	"	0.150	ND	92.6	70-130	1.09	30	
1,3,5-Trimethylbenzene	0.140	0.0050	"	0.150	ND	93.3	70-130	1.14	30	
Naphthalene	0.145	0.0038	"	0.150	ND	97.0	70-130	1.23	30	
Surrogate: 1,2-Dichloroethane-d4		0.0432	"	0.0400		108	50-150			
Surrogate: Toluene-d8		0.0415	"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene		0.0412	"	0.0400		103	50-150			

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0315 - EPA 3550A

Blank (BHJ0315-BLK1)

Prepared: 10/08/24 Analyzed: 10/09/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.4		"	12.5		99.0	30-150			

LCS (BHJ0315-BS1)

Prepared: 10/08/24 Analyzed: 10/09/24

C10-C28 (DRO)	466	50	mg/kg	500		93.2	70-130			
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

Matrix Spike (BHJ0315-MS1)

Source: 2410069-01

Prepared: 10/08/24 Analyzed: 10/09/24

C10-C28 (DRO)	438	50	mg/kg	500	21.3	83.4	70-130			
Surrogate: o-Terphenyl	12.7		"	12.5		101	30-150			

Matrix Spike Dup (BHJ0315-MSD1)

Source: 2410069-01

Prepared: 10/08/24 Analyzed: 10/09/24

C10-C28 (DRO)	451	50	mg/kg	500	21.3	85.9	70-130	2.86	20	
Surrogate: o-Terphenyl	12.9		"	12.5		103	30-150			

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0285 - EPA 5030 Soil MS

Blank (BHJ0285-BLK1)

Prepared & Analyzed: 10/08/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0203		"	0.0333		60.9	40-150			
Surrogate: Fluoranthene-d10	0.0251		"	0.0333		75.2	40-150			

LCS (BHJ0285-BS1)

Prepared & Analyzed: 10/08/24

Acenaphthene	0.0226	0.00500	mg/kg	0.0333		67.8	31-137			
Anthracene	0.0221	0.00500	"	0.0333		66.4	30-120			
Benzo (a) anthracene	0.0222	0.00500	"	0.0333		66.7	30-120			
Benzo (a) pyrene	0.0207	0.00500	"	0.0333		62.2	30-120			
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333		64.4	30-120			
Benzo (k) fluoranthene	0.0229	0.00500	"	0.0333		68.6	30-120			
Chrysene	0.0230	0.00500	"	0.0333		69.1	30-120			
Dibenz (a,h) anthracene	0.0169	0.00500	"	0.0333		50.6	30-120			
Fluoranthene	0.0210	0.00500	"	0.0333		63.0	30-120			
Fluorene	0.0224	0.00500	"	0.0333		67.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333		51.4	30-120			
Pyrene	0.0235	0.00500	"	0.0333		70.5	35-142			
1-Methylnaphthalene	0.0210	0.00500	"	0.0333		63.1	35-142			
2-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0197		"	0.0333		59.0	40-150			
Surrogate: Fluoranthene-d10	0.0212		"	0.0333		63.7	40-150			

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0285 - EPA 5030 Soil MS

Matrix Spike (BHJ0285-MS1)

Source: 2410004-06

Prepared & Analyzed: 10/08/24

Acenaphthene	0.0177	0.00500	mg/kg	0.0333	ND	53.0	31-137		
Anthracene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Benzo (a) anthracene	0.0192	0.00500	"	0.0333	ND	57.6	30-120		
Benzo (a) pyrene	0.0171	0.00500	"	0.0333	ND	51.4	30-120		
Benzo (b) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.6	30-120		
Benzo (k) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.5	30-120		
Chrysene	0.0181	0.00500	"	0.0333	ND	54.4	30-120		
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.1	30-120		
Fluoranthene	0.0167	0.00500	"	0.0333	ND	50.2	30-120		
Fluorene	0.0178	0.00500	"	0.0333	ND	53.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.4	30-120		
Pyrene	0.0199	0.00500	"	0.0333	ND	59.6	35-142		
1-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.1	15-130		
2-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0161		"	0.0333		48.2	40-150		
Surrogate: Fluoranthene-d10	0.0170		"	0.0333		51.0	40-150		

Matrix Spike Dup (BHJ0285-MSD1)

Source: 2410004-06

Prepared & Analyzed: 10/08/24

Acenaphthene	0.0193	0.00500	mg/kg	0.0333	ND	57.8	31-137	8.72	30
Anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	9.32	30
Benzo (a) anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	8.33	30
Benzo (a) pyrene	0.0188	0.00500	"	0.0333	ND	56.4	30-120	9.27	30
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	2.62	30
Benzo (k) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.7	30-120	0.304	30
Chrysene	0.0199	0.00500	"	0.0333	ND	59.8	30-120	9.50	30
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	3.78	30
Fluoranthene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	3.93	30
Fluorene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	7.22	30
Indeno (1,2,3-cd) pyrene	0.0169	0.00500	"	0.0333	ND	50.8	30-120	3.04	30
Pyrene	0.0232	0.00500	"	0.0333	ND	69.5	35-142	15.3	30
1-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.4	15-130	1.43	50
2-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.8	15-130	7.14	50
Surrogate: 2-Methylnaphthalene-d10	0.0169		"	0.0333		50.6	40-150		
Surrogate: Fluoranthene-d10	0.0176		"	0.0333		52.8	40-150		

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Phillips 66
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Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0298 - EPA 3050B

Blank (BHJ0298-BLK1)

Prepared: 10/08/24 Analyzed: 10/09/24

Boron ND 2.00 mg/L

LCS (BHJ0298-BS1)

Prepared: 10/08/24 Analyzed: 10/09/24

Boron 4.86 2.00 mg/L 5.00 97.3 80-120

Duplicate (BHJ0298-DUP1)

Source: 2410107-02

Prepared: 10/08/24 Analyzed: 10/09/24

Boron 0.932 2.00 mg/L 0.809 14.1 20

Matrix Spike (BHJ0298-MS1)

Source: 2410107-02

Prepared: 10/08/24 Analyzed: 10/09/24

Boron 5.86 2.00 mg/L 5.00 0.809 101 75-125

Matrix Spike Dup (BHJ0298-MSD1)

Source: 2410107-02

Prepared: 10/08/24 Analyzed: 10/09/24

Boron 6.12 2.00 mg/L 5.00 0.809 106 75-125 4.35 25

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Phillips 66
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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0336 - EPA 3050B

Blank (BHJ0336-BLK1)

Prepared & Analyzed: 10/09/24

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

LCS (BHJ0336-BS1)

Prepared & Analyzed: 10/09/24

Arsenic	36.0	0.200	mg/kg wet	37.0	97.2	80-120
Barium	37.3	0.400	"	37.0	101	80-120
Cadmium	1.83	0.200	"	1.85	98.6	80-120
Copper	36.5	0.400	"	37.0	98.5	80-120
Lead	18.3	0.200	"	18.5	98.7	80-120
Nickel	36.3	0.400	"	37.0	97.9	80-120
Silver	1.85	0.0200	"	1.85	99.8	80-120
Zinc	36.3	0.400	"	37.0	97.9	80-120
Selenium	3.65	0.260	"	3.70	98.5	80-120

Duplicate (BHJ0336-DUP1)

Source: 2410114-01

Prepared: 10/09/24 Analyzed: 10/10/24

Arsenic	1.85	0.200	mg/kg dry	1.98	6.61	20
Barium	25.1	0.400	"	26.4	5.09	20
Cadmium	0.0258	0.200	"	0.0230	11.4	20
Copper	0.982	0.400	"	1.03	4.49	20
Lead	3.73	0.200	"	3.81	2.05	20
Nickel	1.88	0.400	"	1.88	0.427	20
Silver	ND	0.0200	"	ND		20
Zinc	10.9	0.400	"	11.4	4.20	20
Selenium	ND	0.260	"	ND		20

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0336 - EPA 3050B

Matrix Spike (BHJ0336-MS1)

Source: 2410114-01

Prepared: 10/09/24 Analyzed: 10/10/24

Arsenic	41.4	0.200	mg/kg dry	41.6	1.98	94.7	75-125
Barium	64.7	0.400	"	41.6	26.4	91.9	75-125
Cadmium	2.07	0.200	"	2.08	0.0230	98.2	75-125
Copper	40.9	0.400	"	41.6	1.03	95.7	75-125
Lead	23.9	0.200	"	20.8	3.81	96.8	75-125
Nickel	41.6	0.400	"	41.6	1.88	95.4	75-125
Silver	2.00	0.0200	"	2.08	ND	95.9	75-125
Zinc	50.3	0.400	"	41.6	11.4	93.6	75-125
Selenium	3.87	0.260	"	4.16	ND	92.9	75-125

Matrix Spike Dup (BHJ0336-MSD1)

Source: 2410114-01

Prepared: 10/09/24 Analyzed: 10/10/24

Arsenic	40.6	0.200	mg/kg dry	41.0	1.98	94.1	75-125	2.02	25
Barium	65.8	0.400	"	41.0	26.4	96.0	75-125	1.69	25
Cadmium	2.06	0.200	"	2.05	0.0230	99.4	75-125	0.237	25
Copper	40.2	0.400	"	41.0	1.03	95.6	75-125	1.59	25
Lead	24.3	0.200	"	20.5	3.81	100	75-125	1.54	25
Nickel	41.0	0.400	"	41.0	1.88	95.5	75-125	1.37	25
Silver	1.99	0.0200	"	2.05	ND	96.9	75-125	0.460	25
Zinc	50.4	0.400	"	41.0	11.4	95.3	75-125	0.207	25
Selenium	3.71	0.260	"	4.10	ND	90.5	75-125	4.12	25

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0292 - 3060A Mod

Blank (BHJ0292-BLK1)

Prepared & Analyzed: 10/08/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0292-BS1)

Prepared & Analyzed: 10/08/24

Chromium, Hexavalent 26.6 0.30 mg/kg wet 25.0 107 80-120

Duplicate (BHJ0292-DUP1)

Source: 2410101-01

Prepared & Analyzed: 10/08/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0292-MS1)

Source: 2410101-01

Prepared & Analyzed: 10/08/24

Chromium, Hexavalent 28.9 0.30 mg/kg dry 26.0 ND 111 75-125

Matrix Spike Dup (BHJ0292-MSD1)

Source: 2410101-01

Prepared & Analyzed: 10/08/24

Chromium, Hexavalent 27.9 0.30 mg/kg dry 26.0 ND 107 75-125 3.66 20

Summit Scientific

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0311 - General Preparation

Blank (BHJ0311-BLK1)

Prepared: 10/08/24 Analyzed: 10/09/24

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BHJ0311-BS1)

Prepared: 10/08/24 Analyzed: 10/09/24

Calcium	5.57	0.0500	mg/L wet	5.00	111	70-130
Magnesium	4.88	0.0500	"	5.00	97.6	70-130
Sodium	4.99	0.0500	"	5.00	99.8	70-130

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Phillips 66
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Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0290 - General Preparation

Duplicate (BHJ0290-DUP1)		Source: 2410100-01			Prepared & Analyzed: 10/08/24					
% Solids	82.7		%		82.6		0.0893		20	

Summit Scientific

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Phillips 66
6900 E Layton Ave/ Suite 900
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BHJ0313 - General Preparation

Blank (BHJ0313-BLK1)				Prepared: 10/08/24 Analyzed: 10/09/24						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHJ0313-BS1)				Prepared: 10/08/24 Analyzed: 10/09/24						
Specific Conductance (EC)	0.155	0.0100	mmhos/cm	0.150		103	95-105			
Duplicate (BHJ0313-DUP1)				Source: 2410100-01 Prepared: 10/08/24 Analyzed: 10/09/24						
Specific Conductance (EC)	0.162	0.0100	mmhos/cm		0.164			1.23	20	

Summit Scientific

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Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BHJ0312 - General Preparation

LCS (BHJ0312-BS1)

Prepared: 10/08/24 Analyzed: 10/09/24

pH	9.19	pH Units	9.18	100	95-105
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Duplicate (BHJ0312-DUP1)

Source: 2410100-01

Prepared: 10/08/24 Analyzed: 10/09/24

pH	8.36	pH Units	8.40	0.477	20
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Summit Scientific

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Phillips 66
6900 E Layton Ave/ Suite 900
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]
Project Manager: Stephen Weathers

Reported:
10/10/24 16:26

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference