



July 11, 2024

Olsson Associates

Trent Watne

1525 Raleigh St, Suite 400

Denver

CO 80204

Project Name - Confluence - Bigfoot 11

Project Number - 017-0701-116

Attached are your analytical results for Confluence - Bigfoot 11 received by Origins Laboratory, Inc. June 13, 2024. This project is associated with Origins project number Y406399-01.

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

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

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

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

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

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Trent Watne
Project Number: 017-0701-116
Project: Confluence - Bigfoot 11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
17Ranch160707	Y406399-01	Water	June 13, 2024 11:00	06/13/2024 15:51

Origins Laboratory, Inc.



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 Denver CO 80204

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 Project Number: 017-0701-116
 Project: Confluence - Bigfoot 11

olsson

Baseline Water Quality Chain of Custody

74006344

PROJECT NAME	Confluence - Bigfoot 11	PROJECT NUMBER	017-0701-116
COMPANY NAME	Olsson	PHONE NUMBER	303-237-2072
ADDRESS	1525 Raleigh St., Ste. 400	CITY/STATE/ZIP	Denver, CO 80204
PROJECT MANAGER	Trent Watne	PM EMAIL	twatne@olsson.com
SAMPLER			

TURN AROUND TIME (CHECK)	Standard	X
	24hr	
	48hr	
	72hr	
LAB USE ONLY:	Temperature upon receipt	12.8
	Custody seals in tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

DISPOSAL	By Lab	PAGE	1	of	1
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PROJECT BILL CLIENT?	YES: <input type="checkbox"/> NO: <input checked="" type="checkbox"/>	CLIENT COMPANY:	Confluence
SEND COPY OF ANALYTICAL TO CLIENT?	YES: <input type="checkbox"/> NO: <input checked="" type="checkbox"/>	CLIENT NAME:	
		CLIENT EMAIL:	
		CLIENT PROJECT #:	

Lab ID	Field ID	Matrix	Sample Date	Sample Time	Bottles #
17Ranch160707		GW	6/13/24	11:00	19

<input checked="" type="checkbox"/>	PH (SM4500H) / EC (SM2510) 250poly
<input checked="" type="checkbox"/>	TDS (SM2540C) 500poly
<input checked="" type="checkbox"/>	Anions / Alkalinity (carbonate / bicarbonate) (EPA 300.0) 500poly
<input checked="" type="checkbox"/>	Alkalinity (Bicarbonate, Carbonate) (SM2320) 500poly
<input checked="" type="checkbox"/>	Nitrate, Nitrite (EPA 300.0) (H2So4) 250poly
<input checked="" type="checkbox"/>	Total Phosphorous (SM4500) (H2So4) 250 poly
<input checked="" type="checkbox"/>	Cations (Ca, Fe, Mg, Mn, K, NA) Metals (Ba, B, Sr, Se) (200.7/200.8
<input checked="" type="checkbox"/>	BTEX (8260) 3x 40ml
<input checked="" type="checkbox"/>	DRO (8015) 3x 40ml
<input checked="" type="checkbox"/>	DRO (8015) 3x 40ml
<input checked="" type="checkbox"/>	Methane, Ethane, Propane (RSK 175) 3x 40ml
<input checked="" type="checkbox"/>	Iron Related Bacteria, Sulfur Related Bacteria, Slime Forming Bacteria (BART)

Comments:	Hold I/S/RSK until methane results return
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QC PACKAGE (check show)	
X	LEVEL 1 (Standard QC)
	LEVEL II (SR QC + 1mm)
	LEVEL III (SR QC + 1mm + 1mm)
	SRM

RECEIVED BY	PRINTED NAME	SIGNATURE	DATE	TIME
RECEIVED BY	ENAS	[Signature]	6/13/24	1551
RECEIVED BY		[Signature]		
RECEIVED BY				

Origins Laboratory, Inc.


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 1525 Raleigh St, Suite 400
 Denver CO 80204

Trent Watne
 Project Number: 017-0701-116
 Project: Confluence - Bigfoot 11

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4400399 Client: Olsson
 Checklist Completed by: JHW Client Project ID: Bigfoot 11
 Date/time completed: 6/13/12 Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 12.8 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		SD
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			NO2, NO3, BART
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		NC
Additional Comments (if any):				

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

Reviewed by (Project Manager) JHW Date/Time Reviewed 6/14/12

Origins Laboratory, Inc.

J. Bynon

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Trent Watne
 Project Number: 017-0701-116
 Project: Confluence - Bigfoot 11

17Ranch160707
6/13/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y406399-01 (Water)
Origins Laboratory, Inc.

Anions by IC 300.0

Chloride	182	31.2	mg/L	125	B4F1406	DLT	06/14/2024	06/14/2024	
Fluoride	1.49	0.500	"	5	"	DLT	"	06/14/2024	
Bromide	0.540	0.500	"	"	"	DLT	"	"	
Sulfate	861	31.2	"	125	"	DLT	"	06/14/2024	

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	Ua
Toluene	ND	1.00	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130			"	"	"	"	

Dissolved Metals by EPA 200.8

Barium	40.2	1.11	ug/L	1	B4F1337	JAH	06/13/2024	06/18/2024	
Boron	258	11.1	"	"	"	JAH	"	07/03/2024	
Calcium	220000	11100	"	20	"	JAH	"	06/18/2024	
Iron	1560	11.1	"	1	"	JAH	"	06/18/2024	
Magnesium	99200	222	"	20	"	JAH	"	06/18/2024	
Manganese	50.2	22.2	"	"	"	JAH	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y406399-01 (Water)
Origins Laboratory, Inc.

Dissolved Metals by EPA 200.8

Potassium	27500	2220	ug/L	20	B4F1337	JAH	06/13/2024	06/18/2024	
Selenium	44.2	0.111	"	1	"	JAH	"	06/18/2024	
Sodium	207000	2220	"	20	"	JAH	"	06/18/2024	
Strontium	2970	11.1	"	1	"	JAH	"	06/18/2024	

pH in Water by EPA 9040C

pH	7.48		pH Units	1	B4F1431	EAL	06/14/2024	06/18/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1900	5.00	uS/cm	"	"	EAL	"	"	
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Total Dissolved Solids by 2540C

Total Dissolved Solids	1890	5.00	mg/L	"	B4F1717	KRM	06/17/2024	06/19/2024	
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Pace Analytical

Dissolved Gasses by RSK 175

Ethane	ND	10.0	ug/L	1	11111		06/18/2024	06/21/2024	
Methane	25	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	

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6/13/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y406399-01 (Water)
GEL Laboratories, LLC

Alkalinity by SM 2320B

Alkalinity, Total as CaCO3	281	2.00	mg/L	1	2628357	JW2	06/13/2024	06/18/2024	
Bicarbonate alkalinity (CaCO3)	281	2.00	"	"	"	JW2	"	"	
Carbonate alkalinity (CaCO3)	ND	2.00	"	"	"	JW2	"	"	U

Anions by EPA 300.0

Nitrate	16.2	0.500	mg/L	5	2629055	CWW	"	06/20/2024	H
Nitrite	ND	0.100	"	1	"	CWW	"	06/19/2024	HU

DRO by 8015D

Diesel Range Organics	ND	0.191	mg/L	1	2628241	RXC1	06/19/2024	06/20/2024	U
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Surrogate: o-Terphenyl 63 % 35-112 " " "

GRO by 8015D

Gasoline Range Organics	ND	0.100	mg/L	1	2628696	PXY1	06/13/2024	06/19/2024	U
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Surrogate: Bromofluorobenzene 106 % 73-125 " " "

Nitrate/Nitrite by EPA 353.2

Nitrogen, Nitrate/Nitrite	18.2	1.00	mg/L	50	2629089	AXH3	"	06/20/2024	
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6/13/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y406399-01 (Water)
GEL Laboratories, LLC

Total Phosphorus by EPA 365.4

Phosphorus, Total as P	0.186	0.0500	mg/L	1	2629082	JLD1	06/20/2024	06/20/2024
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Bacterial Activity Reaction Tests

Iron Related Bacteria	~35000		CFU/mL	1	11111	EHS	06/13/2024	06/20/2024
Slime Forming Bacteria	~500		"	"	"	EHS	"	"
Sulfate Reducing Bacteria	~325		"	"	"	EHS	"	"

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1457 - EPA 5030B (Water)

Blank (B4F1457-BLK1)

Prepared: 06/14/2024 Analyzed: 06/19/2024

Benzene	ND	1.00	ug/L							Ua
Toluene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5	105		70-130			
Surrogate: Toluene-d8	64		"	62.5	103		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.0		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1457 - EPA 5030B (Water)

LCS (B4F1457-BS1)

Prepared: 06/14/2024 Analyzed: 06/19/2024

Benzene	53.1	1.00	ug/L	50.0		106	70-130			
Toluene	53.6	1.00	"	50.0		107	70-130			
Ethylbenzene	56.2	1.00	"	50.0		112	70-130			
m,p-Xylene	108	2.00	"	100		108	70-130			
o-Xylene	50.7	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.9	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1457 - EPA 5030B (Water)

Matrix Spike (B4F1457-MS1)	Source: Y406399-01			Prepared: 06/14/2024 Analyzed: 06/19/2024						
Benzene	62.4	1.00	ug/L	50.0	ND	125	70-130			
Toluene	64.3	1.00	"	50.0	ND	129	70-130			
Ethylbenzene	66.8	1.00	"	50.0	ND	134	70-130			QM-07
m,p-Xylene	133	2.00	"	100	ND	133	70-130			QM-07
o-Xylene	65.4	1.00	"	50.0	ND	131	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1457 - EPA 5030B (Water)

Matrix Spike Dup (B4F1457-MSD1)	Source: Y406399-01			Prepared: 06/14/2024 Analyzed: 06/19/2024						
Benzene	59.1	1.00	ug/L	50.0	ND	118	70-130	5.35	20	
Toluene	59.2	1.00	"	50.0	ND	118	70-130	8.18	20	
Ethylbenzene	62.2	1.00	"	50.0	ND	124	70-130	7.24	20	
m,p-Xylene	124	2.00	"	100	ND	124	70-130	6.95	20	
o-Xylene	61.4	1.00	"	50.0	ND	123	70-130	6.24	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.5	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 200 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1337 - EPA 200.8 Preparation

Blank (B4F1337-BLK1)

Prepared: 06/13/2024 Analyzed: 06/18/2024

Barium	ND	1.11	ug/L							
Boron	ND	11.1	"							
Calcium	ND	556	"							
Iron	ND	11.1	"							
Magnesium	ND	11.1	"							
Manganese	ND	1.11	"							
Potassium	ND	111	"							
Selenium	ND	0.111	"							
Sodium	ND	111	"							
Strontium	ND	11.1	"							

LCS (B4F1337-BS1)

Prepared: 06/13/2024 Analyzed: 06/18/2024

Barium	5820	1.11	ug/L	5560	105	85-115				
Boron	53.4	11.1	"	55.6	96.1	85-115				
Calcium	5570	556	"	5560	100	85-115				
Iron	5540	11.1	"	5560	99.7	85-115				
Magnesium	5910	11.1	"	5560	106	85-115				
Manganese	54.3	1.11	"	55.6	97.7	85-115				
Potassium	5840	111	"	5560	105	85-115				
Selenium	105	0.111	"	106	99.8	85-115				
Sodium	5570	111	"	5560	100	85-115				
Strontium	554	11.1	"	556	99.7	85-115				

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Metals by EPA 200 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1337 - EPA 200.8 Preparation

LCS (B4F1337-BS1)

Prepared: 06/13/2024 Analyzed: 06/18/2024

Matrix Spike (B4F1337-MS1)

Source: Y406294-01

Prepared: 06/13/2024 Analyzed: 06/18/2024

Barium	6040	1.11	ug/L	5560	147	106	70-130			
Boron	95.0	11.1	"	55.6	38.8	101	70-130			
Calcium	184000	11100	"	5560	179000	92.8	70-130			
Iron	5290	11.1	"	5560	76.9	93.9	70-130			
Magnesium	29800	222	"	5560	25300	81.4	70-130			
Manganese	1590	22.2	"	55.6	1560	39.4	70-130			QM-07
Potassium	11200	2220	"	5560	5600	101	70-130			
Selenium	112	0.111	"	106	0.232	106	70-130			
Sodium	83900	2220	"	5560	77800	109	70-130			
Strontium	2310	11.1	"	556	1760	99.2	70-130			

Matrix Spike Dup (B4F1337-MSD1)

Source: Y406294-01

Prepared: 06/13/2024 Analyzed: 06/18/2024

Barium	6140	1.11	ug/L	5560	147	108	70-130	1.68	25	
Boron	92.8	11.1	"	55.6	38.8	97.3	70-130	2.28	25	
Calcium	183000	11100	"	5560	179000	83.4	70-130	0.285	25	
Iron	5420	11.1	"	5560	76.9	96.2	70-130	2.41	25	
Magnesium	30600	222	"	5560	25300	94.4	70-130	2.39	25	
Manganese	1620	22.2	"	55.6	1560	93.0	70-130	1.86	25	
Potassium	11200	2220	"	5560	5600	102	70-130	0.317	25	
Selenium	111	0.111	"	106	0.232	105	70-130	0.378	25	
Sodium	83800	2220	"	5560	77800	108	70-130	0.0843	25	
Strontium	2270	11.1	"	556	1760	93.4	70-130	1.39	25	

Origins Laboratory, Inc.



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Olsson Associates
 1525 Raleigh St, Suite 400
 Denver CO 80204

Trent Watne
 Project Number: 017-0701-116
 Project: Confluence - Bigfoot 11

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1406 - Filter .45um non acidified

Blank (B4F1406-BLK1)

Prepared: 06/14/2024 Analyzed: 06/14/2024

Chloride	ND	0.250	mg/L							
Fluoride	ND	0.100	"							
Bromide	ND	0.100	"							
Sulfate	ND	0.250	"							
Nitrate	ND	0.100	"							
Nitrite	ND	0.100	"							

LCS (B4F1406-BS1)

Prepared: 06/14/2024 Analyzed: 06/14/2024

Chloride	3.89	0.250	mg/L	4.00		97.2	90-110			
Fluoride	3.87	0.100	"	4.00		96.7	90-110			
Bromide	3.93	0.100	"	4.00		98.3	90-110			
Sulfate	4.28	0.250	"	4.00		107	90-110			
Nitrate	4.19	0.100	"	4.00		105	90-110			
Nitrite	4.01	0.100	"	4.00		100	90-110			

Matrix Spike (B4F1406-MS1)

Source: Y406399-01

Prepared: 06/14/2024 Analyzed: 06/14/2024

Chloride	680		mg/L	500	182	99.5	90-110			
Fluoride	491		"	500	1.49	98.0	90-110			
Bromide	515		"	500	0.540	103	90-110			
Sulfate	1350		"	500	861	96.9	90-110			
Nitrate	608		"	500	72.5	107	90-110			
Nitrite	509		"	500	0.00	102	90-110			

Matrix Spike Dup (B4F1406-MSD1)

Source: Y406399-01

Prepared: 06/14/2024 Analyzed: 06/14/2024

Chloride	679		mg/L	500	182	99.3	90-110	0.188	5	
Fluoride	491		"	500	1.49	97.9	90-110	0.0280	5	
Bromide	503		"	500	0.540	100	90-110	2.37	5	

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Classical Chemistry Parameters - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1406 - Filter .45um non acidified										
Matrix Spike Dup (B4F1406-MSD1)			Source: Y406399-01		Prepared: 06/14/2024 Analyzed: 06/14/2024					
Sulfate	1330		mg/L	500	861	94.7	90-110	0.820	5	
Nitrate	598		"	500	72.5	105	90-110	1.72	5	
Nitrite	487		"	500	0.00	97.4	90-110	4.43	5	
Batch B4F1431 - Default Prep GenChem										
Blank (B4F1431-BLK1)			Prepared: 06/14/2024 Analyzed: 06/18/2024							
Specific Conductance (EC)	ND	5.00	uS/cm							
Duplicate (B4F1431-DUP1)			Source: Y406399-01		Prepared: 06/14/2024 Analyzed: 06/18/2024					
pH	7.38		pH Units		7.48			1.35	2.51	
Specific Conductance (EC)	1860	5.00	uS/cm		1900			2.01	10	
Batch B4F1717 - NO PREP										
Blank (B4F1717-BLK1)			Prepared: 06/17/2024 Analyzed: 06/19/2024							
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4F1717-BS1)			Prepared: 06/17/2024 Analyzed: 06/19/2024							
Total Dissolved Solids	978	5.00	mg/L	1020		95.9	90-110			
Duplicate (B4F1717-DUP1)			Source: Y406399-01		Prepared: 06/17/2024 Analyzed: 06/19/2024					
Total Dissolved Solids	1860	5.00	mg/L		1890			1.70	10	

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 Project: Confluence - Bigfoot 11

Alkalinity by SM 2320B - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2628357 -										
LCS (1205765252-BKS)					Prepared: Analyzed: 06/18/2024					
Alkalinity, Total as CaCO3	51.0	2.00	mg/L	50.0		102	90-110			
LCS (1205765253-BKS)					Prepared: Analyzed: 06/18/2024					
Alkalinity, Total as CaCO3	16.0	2.00	mg/L	15.0		107	90-110			
LCSD (1205765254-BKSD)					Prepared: Analyzed: 06/18/2024					
Alkalinity, Total as CaCO3	50.5	2.00	mg/L	50.0		101	90-110	0.985	20	
LCSD (1205765255-BKSD)					Prepared: Analyzed: 06/18/2024					
Alkalinity, Total as CaCO3	15.0	2.00	mg/L	15.0		100	90-110	6.45	20	

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 Project Number: 017-0701-116
 Project: Confluence - Bigfoot 11

**Anions by EPA 300.0 - 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 2629055 -

BLANK (1205766525-BLK)

Prepared: Analyzed: 06/19/2024

Nitrate	ND	0.100	mg/L				-			U
Nitrite	ND	0.100	"				-			U

LCS (1205766526-BKS)

Prepared: Analyzed: 06/19/2024

Nitrite	2.45	0.100	mg/L	2.50		98.2	90-110			
Nitrate	2.45	0.100	"	2.50		97.8	90-110			

DUP (1205766527 D)

Source: 672126001

Prepared: Analyzed: 06/19/2024

Nitrite	0.0500	0.100	mg/L		0.0506		0-20	1.19	20	HJ
Nitrate	11.5	0.500	"		11.5		0-20	0.121	20	H

PS (1205766528 S)

Source: 672126001

Prepared: Analyzed: 06/19/2024

Nitrite	2.44	0.100	mg/L	2.50		95.4	90-110			H
Nitrate	24.4	0.500	"	2.50		103	90-110			H

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Trent Watne
 Project Number: 017-0701-116
 Project: Confluence - Bigfoot 11

**DRO by 8015D - Quality Control
 GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2628241 - SW846 3535A										
BLANK (1205765039-BLK)					Prepared: 06/19/2024 Analyzed: 06/20/2024					
Diesel Range Organics	ND	0.200	mg/L				-			U
Surrogate: o-Terphenyl	0.0104		"	0.0200		52	35-112			
LCS (1205765040-BKS)					Prepared: 06/19/2024 Analyzed: 06/20/2024					
Diesel Range Organics	0.775	0.200	mg/L	1.00		77	36-109			
Surrogate: o-Terphenyl	0.0167		"	0.0200		83	35-112			
MS (1205765041 S)					Source: 671962003 Prepared: 06/19/2024 Analyzed: 06/20/2024					
Diesel Range Organics	0.749	0.211	mg/L	1.05	<0.0789	71	35-102			
Surrogate: o-Terphenyl	0.0157		"	0.0211	0.0119	75	35-112			
MSD (1205765042 SD)					Source: 671962003 Prepared: 06/19/2024 Analyzed: 06/20/2024					
Diesel Range Organics	0.747	0.211	mg/L	1.05	<0.0789	71	35-102	0	20	
Surrogate: o-Terphenyl	0.0154		"	0.0211	0.0119	73	35-112			

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Trent Watne
 Project Number: 017-0701-116
 Project: Confluence - Bigfoot 11

GRO by 8015D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2628696 -										
LCS (1205765979-BKS)					Prepared: Analyzed: 06/19/2024					
Gasoline Range Organics	0.565	0.100	mg/L	0.500		113	84-116			
Surrogate: Bromofluorobenzene	0.0536		"	0.0500		107	73-125			
BLANK (1205765980-BLK)					Prepared: Analyzed: 06/19/2024					
Gasoline Range Organics	ND	0.100	mg/L				-			U
Surrogate: Bromofluorobenzene	0.0524		"	0.0500		105	73-125			
PS (1205765981 S)					Source: 671962004 Prepared: Analyzed: 06/19/2024					
Gasoline Range Organics	0.505	0.100	mg/L	0.500		101	66-128			
Surrogate: Bromofluorobenzene	0.0521		"	0.0500		104	73-125			
PSD (1205765982 SD)					Source: 671962004 Prepared: Analyzed: 06/19/2024					
Gasoline Range Organics	0.497	0.100	mg/L	0.500		99	66-128	2	30	
Surrogate: Bromofluorobenzene	0.0537		"	0.0500		107	73-125			

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 Project: Confluence - Bigfoot 11

Nitrate/Nitrite by EPA 353.2 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2629089 -										
BLANK (1205766577-BLK)					Prepared: Analyzed: 06/20/2024					
Nitrogen, Nitrate/Nitrite	ND	0.0200	mg/L				-			U
LCS (1205766578-BKS)					Prepared: Analyzed: 06/20/2024					
Nitrogen, Nitrate/Nitrite	1.01	0.0200	mg/L	1.00		101	90-110			
DUP (1205766579 D)					Source: Y406399-01 Prepared: Analyzed: 06/20/2024					
Nitrogen, Nitrate/Nitrite	17.9	1.00	mg/L		18.2		0-20	1.66	20	
PS (1205766580 S)					Source: Y406399-01 Prepared: Analyzed: 06/20/2024					
Nitrogen, Nitrate/Nitrite	67.0	1.00	mg/L	1.00		97.6	90-110			

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Total Phosphorus by EPA 365.4 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2629082 - EPA 365.4 Prep										
BLANK (1205766555-BLK)					Prepared: 06/20/2024 Analyzed: 06/20/2024					
Phosphorus, Total as P	ND	0.0500	mg/L				-			U
LCS (1205766556-BKS)					Prepared: 06/20/2024 Analyzed: 06/20/2024					
Phosphorus, Total as P	1.03	0.0500	mg/L	1.00		103	83-122			
DUP (1205766557 D)					Source: 671977002 Prepared: 06/20/2024 Analyzed: 06/20/2024					
Phosphorus, Total as P	0.0680	0.0500	mg/L		0.101		0-35	39.1	35	
MS (1205766558 S)					Source: 671977002 Prepared: 06/20/2024 Analyzed: 06/20/2024					
Phosphorus, Total as P	1.12	0.0500	mg/L	1.00	0.101	102	66-137			

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Project: Confluence - Bigfoot 11

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.

HU Holding time exceeded. Non detect.

HJ [Undefined]

H Holding time exceeded

~500 ~500

~35000 ~35000

~325 ~325

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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

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