

June 24, 2022

Citivas

Schuyler Hamilton

650 Southgate Drive

Windsor CO 80550

Project Name - Prairie Center/Citivas

Project Number - [none]

Attached are your analytical results for Prairie Center/Citivas received by Origins Laboratory, Inc. June 16, 2022. This project is associated with Origins project number Y206419-01.

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



Citivas
650 Southgate Drive
Windsor CO 80550

Schuyler Hamilton
Project Number: [none]
Project: Prairie Center/Citivas

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1	Y206419-01	Soil	June 16, 2022 15:23	06/16/2022 16:12

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Citivas
 650 Southgate Drive
 Windsor CO 80550

Schuyler Hamilton
 Project Number: [none]
 Project: Prairie Center/Citivas

www.originslaboratory.com page of

4206419

ORIGINS
LABORATORY, INC

Client: Citivas Resources LLC
 Address: 650 Southgate Drive
 Telephone Number: 720-925-1820
 Email Address: ~~Schuyler Hamilton@citivasresources.com~~
 DLemson@muntra@citivasresources.com

Project Manager: Schuyler Hamilton
 Project Name: Prairie Center/Citivas
 Project Number:
 Samples Collected By: Cory Frost

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Alt Sample #		
SS1	6/16/22	3:23pm		X				X			Full 915 Suite	Full 915 =
												GI16TEX, ORO16D 2
												Night halone 3
												124 HPS Insulation sample
												EG, SAT, pH, BOSON 5
												915 Metals 6
												915 PAH'S 7
												8
												9
												10
Relinquished By: <u>Cory Frost</u>	Date: 6/16/22	Time: 16:12	Received By: <u>[Signature]</u>	Date: 6/16/22	Time: 16:12	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/>						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Standard <input type="checkbox"/>						

1725 EK Place | Denver, CO 80211 | Phone: 303.433.1322

Date Results Needed: 6.9.22

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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Citivas
 650 Southgate Drive
 Windsor CO 80550

Schuyler Hamilton
 Project Number: [none]
 Project: Prairie Center/Citivas

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y200419

Client: Citivas
 Client Project ID: Prairie Center

Checklist Completed by: JB

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-18-22

Airbill #: 7112

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

Cooler Number/Temperature: 1 6.9 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?				
Is there ice present (document if blue ice is used)	X	X		same day
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

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

Reviewed by JB (Project Manager)

6-18-22
 Date/Time Reviewed

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Citivas
 650 Southgate Drive
 Windsor CO 80550

Schuyler Hamilton
 Project Number: [none]
 Project: Prairie Center/Citivas

SS1
6/16/2022 3:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206419-01 (Soil)

Boron (DTPA Sorbitol)

Boron	2.69		0.100	mg/L	1	B2F2010	06/20/2022	06/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1250		25.0	mg/kg	1	B2F2001	06/20/2022	06/22/2022	
Residual Range Organics (C28-C40)	662		100	"	"	"	"	"	

Surrogate: o-Terphenyl	204 %		50-150			"	"	"	S-04
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	8.99		0.0500	mg/kg	25	B2F1718	06/17/2022	06/18/2022	
1,3,5-Trimethylbenzene	2.31		0.0500	"	"	"	"	"	
Benzene	1.73		0.0500	"	"	"	"	"	
Ethylbenzene	3.12		0.0500	"	"	"	"	"	
Toluene	12.4		0.500	"	250	"	"	06/18/2022	
Xylenes, total	16.4		0.0500	"	25	"	"	06/18/2022	
Gasoline Range Hydrocarbons	300		5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	116 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 Windsor CO 80550

Schuyler Hamilton
 Project Number: [none]
 Project: Prairie Center/Citivas

SS1

6/16/2022 3:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206419-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.73		0.499	meq/L	10	[CALC]	06/21/2022	06/22/2022	
Magnesium	ND		8.23	"	100	"	"	"	
Sodium	133		4.35	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	13.9	0.0364	0.067	mg/Kg	100	L622629	06/21/2022	06/22/2022	
2-Methylnaphthalene	18.5	0.0645	0.067	"	"	"	"	"	
Acenaphthene	0.528	0.0304	0.067	"	"	"	"	"	
Anthracene	0.172	0.0334	0.067	"	"	"	"	"	
Benzo(a)anthracene	0.184	0.0493	0.067	"	"	"	"	"	
Benzo(a)pyrene	0.0823	0.0468	0.067	"	"	"	"	"	
Benzo(b)fluoranthene	0.121	0.0585	0.067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0437	0.067	"	"	"	"	"	
Chrysene	0.795	0.0624	0.067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0614	0.067	"	"	"	"	"	
Fluoranthene	0.23	0.0394	0.067	"	"	"	"	"	
Fluorene	2.72	0.0286	0.067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0627	0.067	"	"	"	"	"	
Naphthalene	6.31	0.0484	0.067	"	"	"	"	"	
Pyrene	0.545	0.0643	0.067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	91.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	92.8 %		33-122			"	"	"	

Origins Laboratory, Inc.



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SS1

6/16/2022 3:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206419-01 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	170 %		29-110			L6226 29	06/21/2022	06/22/2022	
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pH in Soil by 9045D

pH	7.50			pH Units	1	B2F2114	06/21/2022	06/22/2022	
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SAR by 20B Saturated Paste

SAR	75.3			SAR	1	B2F2110	06/21/2022	06/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	15.3		0.00500	mmhos/cm	1	B2F2114	06/21/2022	06/22/2022	
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Table 915 metals by EPA 6020B

Arsenic	3.10		0.100	mg/kg	1	B2F2017	06/20/2022	06/20/2022	
Barium	74.1		10.0	"	"	"	"	"	
Cadmium	ND		0.100	"	"	"	"	"	U
Copper	ND		10.0	"	"	"	"	"	U
Lead	8.25		1.00	"	"	"	"	"	
Nickel	5.59		1.00	"	"	"	"	"	
Selenium	0.334		0.100	"	"	"	"	"	
Silver	ND		0.100	"	"	"	"	"	U
Zinc	25.2		10.0	"	"	"	"	"	

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6/16/2022 3:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206419-01 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L623083	06/16/2022	06/22/2022	
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 650 Southgate Drive
 Windsor CO 80550

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 Project: Prairie Center/Citivas

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 B2F1718 - EPA 5030 (soil)

Blank (B2F1718-BLK1)

Prepared: 06/17/2022 Analyzed: 06/17/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	89.5		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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Batch B2F1718 - EPA 5030 (soil)

LCS (B2F1718-BS1)

Prepared: 06/17/2022 Analyzed: 06/17/2022

1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100		88.7	70-130			
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100		87.8	70-130			
Benzene	0.0902	0.00200	"	0.100		90.2	70-130			
Ethylbenzene	0.0895	0.00200	"	0.100		89.5	70-130			
Naphthalene	0.0893	0.0100	"	0.100		89.3	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.0876	0.00200	"	0.100		87.6	70-130			
m,p-Xylene	0.171	0.00400	"	0.200		85.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	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 B2F1718 - EPA 5030 (soil)

Matrix Spike (B2F1718-MS1)	Source: Y206443-01			Prepared: 06/17/2022 Analyzed: 06/17/2022						
1,2,4-Trimethylbenzene	0.0972	0.00200	mg/kg	0.100	ND	97.2	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
Benzene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.104	0.0100	"	0.100	0.00126	102	70-130			
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.0986	0.00200	"	0.100	ND	98.6	70-130			
m,p-Xylene	0.192	0.00400	"	0.200	ND	96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 B2F1718 - EPA 5030 (soil)

Matrix Spike Dup (B2F1718-MSD1)	Source: Y206443-01			Prepared: 06/17/2022 Analyzed: 06/17/2022						
1,2,4-Trimethylbenzene	0.0886	0.00200	mg/kg	0.100	ND	88.6	70-130	9.24	20	
1,3,5-Trimethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130	10.3	20	
Benzene	0.0922	0.00200	"	0.100	ND	92.2	70-130	7.48	20	
Ethylbenzene	0.0915	0.00200	"	0.100	ND	91.5	70-130	9.54	20	
Naphthalene	0.102	0.0100	"	0.100	0.00126	101	70-130	1.73	20	
Toluene	0.0921	0.00200	"	0.100	ND	92.1	70-130	8.24	20	
o-Xylene	0.0898	0.00200	"	0.100	ND	89.8	70-130	9.26	20	
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.7	70-130	9.04	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2001 - EPA 3580										
Blank (B2F2001-BLK1)										
					Prepared: 06/20/2022 Analyzed: 06/21/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Citivas
 650 Southgate Drive
 Windsor CO 80550

Schuyler Hamilton
 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2001 - EPA 3580

LCS (B2F2001-BS1)

Prepared: 06/20/2022 Analyzed: 06/21/2022

Diesel (C10-C28)	899	50.0	mg/kg	1000		89.9	70-130			
Residual Range Organics (C28-C40)	829	200	"	1000		82.9	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.1	50-150			

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Schuyler Hamilton
 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2001 - EPA 3580

Matrix Spike (B2F2001-MS1)	Source: Y206323-01			Prepared: 06/20/2022 Analyzed: 06/21/2022						
Diesel (C10-C28)	907	50.0	mg/kg	1000	ND	90.7	70-130			
Residual Range Organics (C28-C40)	811	200	"	1000	ND	81.1	70-130			
Surrogate: o-Terphenyl	38		"	49.8		75.5	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2001 - EPA 3580

Matrix Spike Dup (B2F2001-MSD1)	Source: Y206323-01			Prepared: 06/20/2022 Analyzed: 06/21/2022						
Diesel (C10-C28)	899	50.0	mg/kg	1000	ND	89.9	70-130	0.806	35	
Residual Range Organics (C28-C40)	780	200	"	1000	ND	78.0	70-130	3.93	35	
Surrogate: o-Terphenyl	37		"	49.8		74.8	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 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 B2F2017 - Default Prep Metals

Blank (B2F2017-BLK1)

Prepared: 06/20/2022 Analyzed: 06/20/2022

Arsenic	ND	0.100	mg/kg							U
Barium	ND	10.0	"							U
Cadmium	ND	0.100	"							U
Copper	ND	10.0	"							U
Lead	ND	1.00	"							U
Selenium	ND	0.100	"							U
Silver	ND	0.100	"							U
Zinc	ND	10.0	"							U

LCS (B2F2017-BS1)

Prepared: 06/20/2022 Analyzed: 06/20/2022

Arsenic	8.19	0.100	mg/kg	10.0		81.9	80-120			
Barium	806	10.0	"	1000		80.6	80-120			
Cadmium	8.40	0.100	"	10.0		84.0	80-120			
Copper	85.1	10.0	"	100		85.1	80-120			
Lead	8.27	1.00	"	10.0		82.7	80-120			
Selenium	8.20	0.100	"	10.0		82.0	80-120			
Silver	8.51	0.100	"	10.0		85.1	80-120			
Zinc	83.8	10.0	"	100		83.8	80-120			

Matrix Spike (B2F2017-MS1)

Source: Y206149-05

Prepared: 06/20/2022 Analyzed: 06/20/2022

Arsenic	10.0	0.100	mg/kg	8.51	3.43	77.6	75-125			
Barium	769	10.0	"	851	96.2	79.1	75-125			

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Jen Pellegrini, Project Manager

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Citivas
 650 Southgate Drive
 Windsor CO 80550

Schuyler Hamilton
 Project Number: [none]
 Project: Prairie Center/Citivas

Metals by SM 3500 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2017 - Default Prep Metals

Matrix Spike (B2F2017-MS1)		Source: Y206149-05			Prepared: 06/20/2022 Analyzed: 06/20/2022					
Cadmium	7.08	0.100	mg/kg	8.51	0.0998	82.0	75-125			
Copper	79.7	10.0	"	85.1	9.17	82.9	75-125			
Lead	13.2	1.00	"	8.51	6.11	82.9	75-125			
Selenium	6.60	0.100	"	8.51	0.0990	76.4	75-125			
Silver	6.98	0.100	"	8.51	0.0240	81.8	75-125			
Zinc	100	10.0	"	85.1	32.2	79.6	75-125			
Matrix Spike Dup (B2F2017-MSD1)		Source: Y206149-05			Prepared: 06/20/2022 Analyzed: 06/20/2022					
Arsenic	11.3	0.100	mg/kg	10.3	3.43	76.1	75-125	11.7	20	
Barium	921	10.0	"	1030	96.2	80.1	75-125	18.0	20	
Cadmium	8.78	0.100	"	10.3	0.0998	84.2	75-125	21.5	20	QR-DUP
Copper	93.4	10.0	"	103	9.17	81.8	75-125	15.9	20	
Lead	14.5	1.00	"	10.3	6.11	81.6	75-125	9.78	20	
Selenium	8.13	0.100	"	10.3	0.0990	78.0	75-125	20.8	20	
Silver	8.63	0.100	"	10.3	0.0240	83.5	75-125	21.2	20	
Zinc	115	10.0	"	103	32.2	79.9	75-125	13.6	20	

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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
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Batch B2F2010 - Default Prep Metals

Blank (B2F2010-BLK1)

Prepared: 06/20/2022 Analyzed: 06/21/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2F2010-DUP1)

Source: Y206418-01

Prepared: 06/20/2022 Analyzed: 06/21/2022

Boron	0.829	0.100	mg/L		0.853			2.85	50	
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Batch B2F2110 - Default Prep Metals

Blank (B2F2110-BLK1)

Prepared: 06/21/2022 Analyzed: 06/22/2022

Calcium PPM	ND	10.0	mg/L							U
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SAR	0.00		SAR							U
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Magnesium PPM	ND	10.0	mg/L							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B2F2110-DUP1)

Source: Y206417-04

Prepared: 06/21/2022 Analyzed: 06/22/2022

Calcium PPM	9.30	10.0	mg/L		14.2			41.7	50	U
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SAR	0.00		SAR		0.590			200	200	U
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Magnesium PPM	2.50	10.0	mg/L		3.30			27.6	50	U
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Sodium PPM	7.80	10.0	"		9.50			19.7	50	U
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 Project: Prairie Center/Citivas

Saturated Paste - 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 B2F2114 - NO PREP

Blank (B2F2114-BLK1)

Prepared: 06/21/2022 Analyzed: 06/22/2022

pH	0.00		pH Units							U
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U

Duplicate (B2F2114-DUP1)

Source: Y206417-04

Prepared: 06/21/2022 Analyzed: 06/22/2022

pH	7.66		pH Units		7.82			2.07	25	
Specific Conductance (EC)	0.139	0.00500	mmhos/cm		0.132			5.45	25	

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Schuyler Hamilton
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 Project: Prairie Center/Citivas

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622629 - 3550B

MSD (L 89118-MSD-L622629)		Source: Y206419-01			Prepared: 06/21/2022 Analyzed: 06/22/2022					
Chrysene	1.02	0.0624	mg/Kg	0.166	0.795	136	30-130	18.6	30	*
Dibenz(a,h)anthracene	0.139	0.0614	"	0.166	89118	83.7	30-130	23.4	30	
Fluoranthene	0.343	0.0394	"	0.166	0.23	68	30-130	18.9	30	
Fluorene	3.12	0.0286	"	0.166	2.72	241	30-130	20.6	30	*
Indeno(1,2,3-cd)pyrene	0.135	0.0627	"	0.166	89118	81.3	30-130	16.3	30	
Naphthalene	6.43	0.0484	"	0.166	6.31	72.2	30-130	20.8	30	
Benzo(k)fluoranthene	0.126	0.0437	"	0.166	89118	75.9	30-130	11.2	30	
Anthracene	0.269	0.0334	"	0.166	0.172	58.4	30-130	32.6	30	
Pyrene	0.707	0.0643	"	0.166	0.545	97.5	30-130	21.8	30	
1-Methylnaphthalene	14.8	0.0364	"	0.166	13.9	542	30-130	22.7	30	*
Benzo(a)anthracene	0.324	0.0493	"	0.166	0.184	84.3	30-130	18.2	30	
Acenaphthene	0.671	0.0304	"	0.166	0.528	86.1	30-130	19.8	30	
2-Methylnaphthalene	19.7	0.0645	"	0.166	18.5	723	30-130	19.2	30	*
Benzo(b)fluoranthene	0.201	0.0585	"	0.166	0.121	48.1	30-130	33.5	30	
Benzo(a)pyrene	0.182	0.0468	"	0.166	0.0823	60	30-130	22.4	30	
Surrogate: Nitrobenzene-d5	136		"	0.332	565	136	29-110			*
Surrogate: 4-Terphenyl-d14	77.4		"	0.332	309	77.4	33-122			
Surrogate: 2-Fluorobiphenyl	70.4		"	0.332	304	70.4	33-115			

MS (L 89118-MS-L622629)		Source: Y206419-01			Prepared: 06/21/2022 Analyzed: 06/22/2022					
Benzo(b)fluoranthene	0.282	0.0585	mg/Kg	0.166	0.121	96.9	30-130			
Chrysene	1.23	0.0624	"	0.166	0.795	262	30-130			*
Pyrene	0.88	0.0643	"	0.166	0.545	202	30-130			*
Fluoranthene	0.415	0.0394	"	0.166	0.23	111	30-130			
Fluorene	3.84	0.0286	"	0.166	2.72	675	30-130			*
Indeno(1,2,3-cd)pyrene	0.159	0.0627	"	0.166	89118	95.7	30-130			
Naphthalene	7.93	0.0484	"	0.166	6.31	976	30-130			*

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Schuyler Hamilton
 Project Number: [none]
 Project: Prairie Center/Citivas

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622629 - 3550B

MS (L 89118-MS-L622629)		Source: Y206419-01			Prepared: 06/21/2022 Analyzed: 06/22/2022					
Benzo(k)fluoranthene	0.141	0.0437	mg/Kg	0.166	89118	84.9	30-130			
Benzo(a)pyrene	0.228	0.0468	"	0.166	0.0823	87.7	30-130			
Anthracene	0.374	0.0334	"	0.166	0.172	122	30-130			
Acenaphthene	0.819	0.0304	"	0.166	0.528	175	30-130			*
2-Methylnaphthalene	23.9	0.0645	"	0.166	18.5	NR	30-130			*
1-Methylnaphthalene	18.6	0.0364	"	0.166	13.9	NR	30-130			*
Benzo(a)anthracene	0.389	0.0493	"	0.166	0.184	123	30-130			
Dibenz(a,h)anthracene	0.176	0.0614	"	0.166	89118	106	30-130			
Surrogate: Nitrobenzene-d5	156		"	0.332	565	156	29-110			*
Surrogate: 4-Terphenyl-d14	98.1		"	0.332	309	98.1	33-122			
Surrogate: 2-Fluorobiphenyl	88.5		"	0.332	304	88.5	33-115			

LCS (LCS-L622629)		Prepared: 06/21/2022 Analyzed: 06/22/2022								
Benzo(b)fluoranthene	0.116	0.000585	mg/Kg	0.167		69.4	30-130			
Benzo(k)fluoranthene	0.0968	0.000437	"	0.167		57.9	30-130			
Chrysene	0.106	0.000624	"	0.167		63.4	30-130			
Fluoranthene	0.102	0.000394	"	0.167		61	30-130			
Benzo(a)pyrene	0.119	0.000468	"	0.167		71.2	30-130			
Naphthalene	0.0705	0.000484	"	0.167		42.2	30-130			
Dibenz(a,h)anthracene	0.118	0.000614	"	0.167		70.6	30-130			
Pyrene	0.101	0.000643	"	0.167		60.4	30-130			
Indeno(1,2,3-cd)pyrene	0.114	0.000627	"	0.167		68.2	30-130			
Anthracene	0.0913	0.000334	"	0.167		54.6	30-130			
Acenaphthene	0.0763	0.000304	"	0.167		45.6	30-130			
2-Methylnaphthalene	0.0765	0.000645	"	0.167		45.8	30-130			
1-Methylnaphthalene	0.0722	0.000364	"	0.167		43.2	30-130			
Fluorene	0.0837	0.000286	"	0.167		50.1	30-130			

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Citivas
 650 Southgate Drive
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Schuyler Hamilton
 Project Number: [none]
 Project: Prairie Center/Citivas

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622629 - 3550B

LCS (LCS-L622629)

Prepared: 06/21/2022 Analyzed: 06/22/2022

Benzo(a)anthracene	0.116	0.000493	mg/Kg	0.167		69.4	30-130			
Surrogate: Nitrobenzene-d5	66		"	0.333		66	29-110			
Surrogate: 4-Terphenyl-d14	76.2		"	0.333		76.2	33-122			
Surrogate: 2-Fluorobiphenyl	50.4		"	0.333		50.4	33-115			

LRB (LRB-L622629)

Prepared: 06/21/2022 Analyzed: 06/22/2022

Naphthalene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.333		52.5	33-115			
Surrogate: Nitrobenzene-d5	66.6		"	0.333		66.6	29-110			
Surrogate: 4-Terphenyl-d14	72.9		"	0.333		72.9	33-122			

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Schuyler Hamilton
 Project Number: [none]
 Project: Prairie Center/Citivas

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L623083 -										
DUP (L 89116-DUP)		Source: 89116								Prepared: Analyzed: 06/22/2022
Chromium, Hexavalent	ND	0.244	mg/Kg		89116	-		0	20	
MS (L 89116-MS)		Source: 89116								Prepared: Analyzed: 06/22/2022
Chromium, Hexavalent	3.84	0.251	mg/Kg	8.25	89116	47	75-125			*
MSD (L 89116-MSD)		Source: 89116								Prepared: Analyzed: 06/22/2022
Chromium, Hexavalent	488	26.4	mg/Kg	619	89116	79	75-125			
LCS (LCS)										Prepared: Analyzed: 06/22/2022
Chromium, Hexavalent	7	0.244	mg/Kg	8		88	75-125			
LRB (LRB)										Prepared: Analyzed: 06/22/2022
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Citivas
650 Southgate Drive
Windsor CO 80550

Schuyler Hamilton
Project Number: [none]
Project: Prairie Center/Citivas

Notes and Definitions

U Sample is Non-Detect.

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

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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Jen Pellegrini, Project Manager

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