

# **Anschutz Windmill 10-34**

SESE Sec. 28-T5N-R62W

Location ID No. 440093

Form 19 Supplemental Deliverable Package

September & November 2022

Prepared by Tasman, Inc.



On behalf of Highpoint Operating Corporation




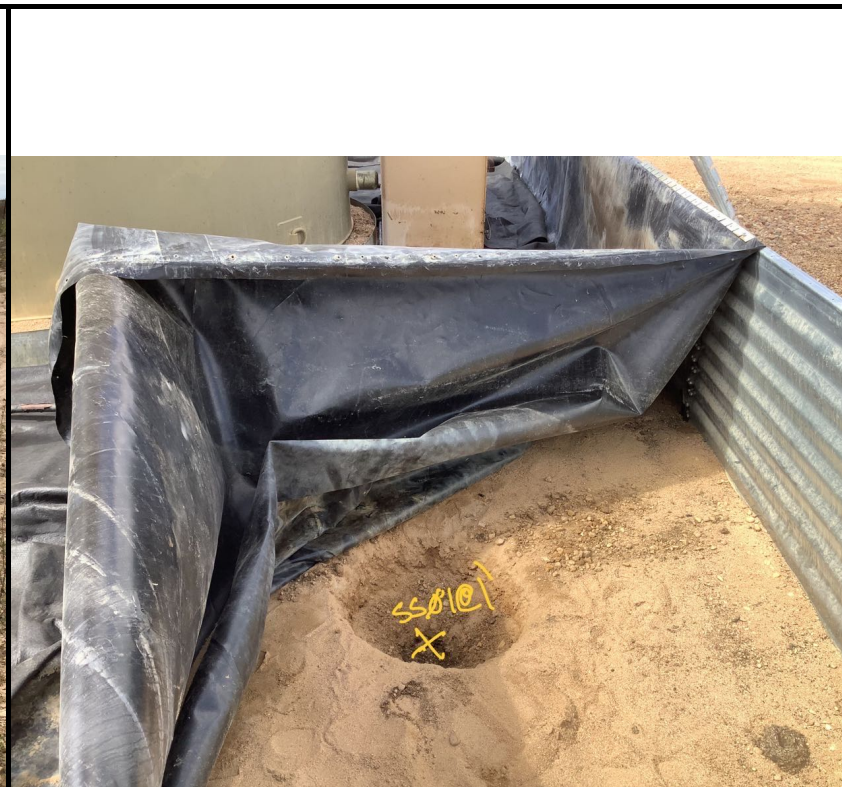
## **FIELD NOTES AND PHOTO LOG**



# TANK BATTERY RELEASE

<b>SITE NAME:</b> Anschutz Windmill 10-34H							<b>DATE:</b> 9/15/2022	<b>REM. PROJECT #:</b> N/A	<b>WEATHER:</b> Sunny 78(F),	
<b>SITE DIRECTIONS:</b> CR 87 & 89, N 4.4 miles, WISW 4.1 miles, S/SE 2.1 MI, SW 259 Ft. INTO facility							<b>CLIENT:</b> Highpoint Operating Corporation			
<b>LEGALS AND LAT/LONG:</b> 40.351046, -104.302102							<b>TASMAN PERSONNEL:</b> Dalton Hagen			
<b>SOIL TYPES:</b> Well Graded Sand - SW							<b>SURFACE GRADIENT:</b> Northwest			
SOIL SAMPLING							FACILITY INFRASTRUCTURE			
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT		Quantity	
							Above Ground Storage Tank (AST)			
9/15/2022 13:57	SS01@1'	0.0	No Staining	No Odor	Yes	Lab	Buried or Partially Buried Vessel			
9/15/2022 14:02	BG01@1'	0.0	No Staining	No Odor	Yes	Lab	Separator			
11/3/2022 09:30	SS02@4'	0.1	No Staining	No Odor	Yes	Lab	Emission Control Device (ECD)			
11/3/2022 09:40	BG02@4'	0.1	No Staining	No Odor	Yes	Lab	Dump Line			
							Wellhead			
							Flowline			
							Other:			
							Soil Loads Removed			
							IMPACTED SOIL IDENTIFIED?			
							ESTIMATED VOLUME OF IMPACTS:			
							Date	Number	CY	
							Total Removed		0	0
							Disposal Facility:			
							Groundwater Recovery			
							DATE GW ENCOUNTERED:		DEPTH:	
							GROUNDWATER IN CONTACT WITH IMPACTED SOIL?			
							LNAPL OR SHEEN OBSERVED ON GW?			
GROUNDWATER SAMPLING							Date		BBLs	
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?				
							Total Removed		0	
							Disposal Facility:			

## Photographic Log

					
<b>Equipment ID:</b>			<b>Equipment ID:</b>		
<b>Equipment Type:</b>			<b>Equipment Type:</b>		
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>
<b>Notes/Conditions:</b> Facing southwest			<b>Notes/Conditions:</b> Facing northwest		



## Photographic Log



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil sampling location			



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Facing northwest			

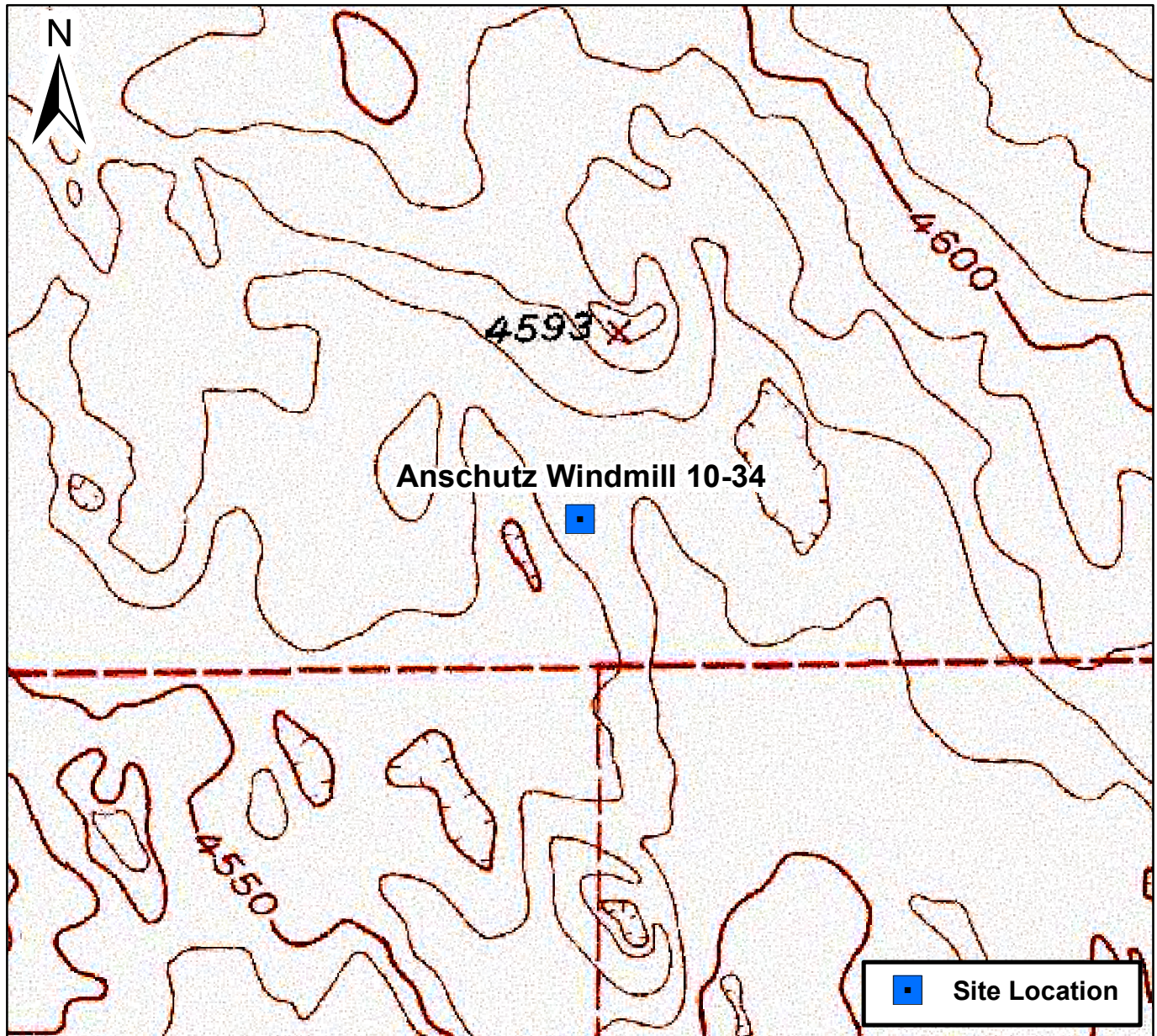
## Photographic Log



<b>Equipment ID:</b>		<b>Equipment Type:</b>		<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>		<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b> Background location to the northeast, facing southwest				<b>Notes/Conditions:</b>			

## FIGURES





0 1,000 2,000 Feet

## Figure 1

Site Location Map  
Anschutz Windmill 10-34  
SESE Sec. 34-T5N-R62W  
Weld County, Colorado







DATE:	November 2022
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed



**Tasman, Inc.**  
6855 W. 119th Ave  
Broomfield, CO 80020

**Highpoint Operating Corporation**  
**Anschutz Windmill 10-34**  
SESE Sec. 34-T5N-R62W  
Weld County, Colorado

Soil Sample  
Location Map

**Figure**  
**2**

# TABLES



**TABLE 1**  
**ANSCHUTZ WINDMILL 10-34**  
**SOIL SAMPLE LOCATIONS**  
**HIGHPOINT OPERATING CORPORATION**



Soil Sample Location	Date	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
SS01@1'	09/15/2022	0.0	No Staining	No Odor	40.351307	-104.302423	1.1	Y
BG01@1'	09/15/2022	0	No Staining	No Odor	40.351419	-104.302299	1.3	Y
SS02@4'	11/03/2022	0.1	No Staining	No Odor	40.351313	-104.302442	1	Y
BG02@4'	11/03/2022	0.1	No Staining	No Odor	40.351462	-104.302320	1.1	Y

**Notes:**

PID = Photoionization detector

ppm = Parts per million

HC = Hydrocarbon

GPS = Global positioning system

PDOP = Position dilution of precision

NA = Not Applicable

**TABLE 2**  
**ANSCHUTZ WINDMILL 10-34**  
**SOIL ANALYTICAL DATA - VOCs**  
**HIGHPOINT OPERATING CORPORATION**

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg) <sup>(1)</sup>		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC standards for soil (mg/kg) <sup>(2)</sup>		1.2	490	5.8	58	2	500			30	27
SS01@1'	09/15/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200

**Notes:**

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = Milligrams per kilogram

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards

**TABLE 3**  
**ANSCHUTZ WINDMILL 10-34**  
**SOIL ANALYTICAL DATA - PAHs**  
**HIGHPOINT OPERATING CORPORATION**



Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) <sup>(1)</sup>		0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC standards for soil (mg/kg) <sup>(2)</sup>		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SS01@1'	09/15/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00201	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000852

**Notes:**

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = Milligrams per kilogram

Benzo(a)A = Benzo(a)anthracene

Benzo(b)F = Benzo(b)fluoranthene

Benzo(k)F = Benzo(k)fluoranthene

Benzo(a)P = Benzo(a)pyrene

D (a,h) A = Dibenzo(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards

**TABLE 4**  
**ANSCHUTZ WINDMILL 10-34**  
**SOIL ANALYTICAL DATA - METALS**  
**HIGHPOINT OPERATING CORPORATION**

Soil Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC standards for soil (mg/kg) <sup>(1)</sup>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC standards for soil (mg/kg) <sup>(2)</sup>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SS01@1'	09/15/2022	3.07*	34.7	0.106	<0.5	<9.84	<9.84	<9.84	<0.0984	<0.0984	<98.4
<b>BACKGROUND</b>											
BG01@1'	09/15/2022	2.70	32.9	<0.0965	<0.5	<9.65	<9.65	<9.65	0.115	<0.0965	<96.5

**Notes:**

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = Milligrams per kilogram

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards

*Italics* = Laboratory minimum detection limit exceeds the COGCC Table 915-1 standard

NA = Constituent not analyzed

\* Result exceeded the COGCC Table 915-1 standard, but was within range of site-specific background concentrations

**TABLE 5**  
**ANSCHUTZ WINDMILL 10-34**  
**SOIL ANALYTICAL DATA - SOIL RECLAMATION**  
**HIGHPOINT OPERATING CORPORATION**



Soil Sample Location	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>COGCC standards for soil (mg/kg) <sup>(1)</sup></b>		<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
SS01@1'	09/15/2022	6.86	<b>15.5</b>	3.19	0.380
SS02@4'	11/03/2022	NA	4.84	NA	NA
<b>BACKGROUND</b>					
BG01@1'	09/15/2022	7.06	0.120	0.0647	<0.101
BG02@4'	11/03/2022	NA	0.0268	NA	NA

**Notes:**

(1) Standards for soil are taken from COGCC Table 915-1, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards

\* Result exceeded the COGCC Table 915-1 standard, but was within background levels

## **LABORATORY ANALYTICAL DATA**



October 04, 2022

Tasman Geosciences

Sam Vogt

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - Civitas - Anschutz Windmill  
10-34H Facility****Project Number - [none]**

Attached are your analytical results for Civitas - Anschutz Windmill 10-34H Facility received by Origins Laboratory, Inc. September 15, 2022. This project is associated with Origins project number Y209345-01.

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



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@1'	Y209345-01	Soil	September 15, 2022 13:57	09/15/2022 16:45
BG01@1'	Y209345-02	Soil	September 15, 2022 14:02	09/15/2022 16:45

Origins Laboratory, Inc.



*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.*

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

ORIGINS  
LABORATORY, INC

[www.originslaboratory.com](http://www.originslaboratory.com)

page 1 of 1

Client: CNIHS/HSM/LN

Address: 68SS W. 19th St

Broomfield CO

Telephone Number: 610-405-9078

Email Address: [Svogt@tasman-gem.com](mailto:Svogt@tasman-gem.com); [j.evans@civ-resources.com](mailto:j.evans@civ-resources.com)

Y20Q345

Project Manager: Sam Vogt, Jacob Evans

Project Name: Alschuetz Windmill ID-344 facility

Project Number:

DH

Samples Collected By:

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis					Sample Instructions
			Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Pb	Cd	SAR*	GPR*	Go To Water		
SSØ1e1	9.15.22	13:57	2	X					X		X					*Sat Paste
BGØ1e1	↓	14:02	2	X					X		X	X	X	X	*	*Not Water
																3
																4
																5
																6
																7
																8
																9
																10
Relinquished By: <i>[Signature]</i>	Date: 9.15.22	Time: 1645	Date: 9.15.22	Time: 1645	Received By: <i>[Signature]</i>	Date: 9.15.22	Time: 1645	Date: 9.15.22	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>						

Temp Received- y.f.

Date Results Needed

Origins Laboratory, Inc.

Byron

*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.*

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H Facility

Origins Laboratory

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

Origins Work Order: Y209345

Client: Tasman

Client Project ID: Anschutz Windmill 10-34H Facility

Checklist Completed by: DE

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

Date/time completed: 09/16/2022

Airbill #: NA

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

Cooler Number/Temperature: 1 14.9 °C        /        °C        /        °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	X			
Is there ice present (document if blue ice is used)	X			
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 <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	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 <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)			X	
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) JP

Date/Time Reviewed 9/19/22

Origins Laboratory, Inc.

*J. Bynon*

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.

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H Facility

SS01@1'

9/15/2022 1:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209345-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.380	0.101	mg/L	1	B2I1904	09/19/2022	09/20/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2I1917	09/19/2022	09/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.5 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1920	09/19/2022	09/25/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

SS01@1'

9/15/2022 1:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209345-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.5 %	70-130	B2192 0	09/19/2022	09/25/2022
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	3.54	0.499	meq/L	10	[CALC]	09/19/2022	09/20/2022
Magnesium	0.919	0.823	"	"	"	"	"
Sodium	23.1	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00067	0.00067	mg/Kg	1	L638567	09/20/2022	09/21/2022
2-Methylnaphthalene	ND	0.00067	0.00067	"	"	"	"	"
Acenaphthene	ND	0.00067	0.00067	"	"	"	"	"
Anthracene	ND	0.00067	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00067	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00067	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00067	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00067	0.00067	"	"	"	"	"
Chrysene	0.00201	0.00067	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00067	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00067	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H Facility

SS01@1'

9/15/2022 1:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y209345-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.00067	0.00067	mg/Kg	1	L638567	09/20/2022	09/21/2022
Indeno(1,2,3-cd)pyrene	ND	0.00067	0.00067	"	"	"	"	"
Naphthalene	ND	0.00067	0.00067	"	"	"	"	"
Pyrene	0.000852	0.00067	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	6.86	pH Units	1	B211906	09/19/2022	09/20/2022
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**SAR by 20B Saturated Paste**

SAR	15.5	SAR	1	B211905	09/19/2022	09/20/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.19	0.00500	mmhos/cm	1	B211906	09/19/2022	09/20/2022
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**Table 915 metals by EPA 6020B**

Arsenic	3.07	0.0984	mg/kg	10	B211912	09/19/2022	09/20/2022
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

SS01@1'

9/15/2022 1:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209345-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	34.7	9.84	mg/kg	10	B2I1912	09/19/2022	09/20/2022
Cadmium	0.106	0.0984	"	"	"	"	"
Copper	ND	9.84	"	"	"	"	"
Lead	ND	9.84	"	"	"	"	"
Nickel	ND	9.84	"	"	"	"	"
Selenium	ND	0.0984	"	"	"	"	"
Silver	ND	0.0984	"	"	"	"	"
Zinc	ND	98.4	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L638911	09/15/2022	09/21/2022
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H Facility

BG01@1'

9/15/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209345-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B2I1904	09/19/2022	09/20/2022
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	09/19/2022	09/20/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.06		pH Units	1	B2I1906	09/19/2022	09/20/2022
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**SAR by 20B Saturated Paste**

SAR	0.120		SAR	1	B2I1905	09/19/2022	09/20/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0647	0.00500	mmhos/cm	1	B2I1906	09/19/2022	09/20/2022
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**Table 915 metals by EPA 6020B**

Arsenic	2.70	0.0965	mg/kg	10	B2I1912	09/19/2022	09/20/2022
Barium	32.9	9.65	"	"	"	"	"
Cadmium	ND	0.0965	"	"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

BG01@1'

9/15/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209345-02 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND	9.65	mg/kg	10	B211912	09/19/2022	09/20/2022
Lead	ND	9.65	"	"	"	"	"
Nickel	ND	9.65	"	"	"	"	"
Selenium	0.115	0.0965	"	"	"	"	"
Silver	ND	0.0965	"	"	"	"	"
Zinc	ND	96.5	"	"	"	"	"

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L638912	09/15/2022	09/21/2022
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Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

## 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
<b>Batch B2I1917 - EPA 3580</b>										
<b>Blank (B2I1917-BLK1)</b>					Prepared: 09/19/2022 Analyzed: 09/23/2022					
Diesel (C10-C28)	ND	12.5	mg/kg							U
Residual Range Organics (C28-C40)	ND	50.0	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.3	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

**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 B2I1917 - EPA 3580**

**LCS (B2I1917-BS1)**

Prepared: 09/19/2022 Analyzed: 09/23/2022

Diesel (C10-C28)	884	25.0	mg/kg	1000		88.4	70-130			
Residual Range Organics (C28-C40)	853	100	"	1000		85.3	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.9	50-150			

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

## 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 B2I1917 - EPA 3580

Matrix Spike (B2I1917-MS1)		Source: Y209317-01			Prepared: 09/19/2022 Analyzed: 09/23/2022					
Diesel (C10-C28)	853	25.0	mg/kg	1000	ND	85.3	70-130			
Residual Range Organics (C28-C40)	982	100	"	1000	ND	98.2	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

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 B2I1917 - EPA 3580

Matrix Spike Dup (B2I1917-MSD1)		Source: Y209317-01			Prepared: 09/19/2022 Analyzed: 09/23/2022					
Diesel (C10-C28)	898	25.0	mg/kg	1000	ND	89.8	70-130	5.23	35	
Residual Range Organics (C28-C40)	967	100	"	1000	ND	96.7	70-130	1.58	35	
Surrogate: o-Terphenyl	42		"	49.8		85.1	50-150			

Origins Laboratory, Inc.



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accordance with the chain of custody document. This  
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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2I1920 - EPA 5030 (soil)										
Blank (B2I1920-BLK1)					Prepared: 09/19/2022 Analyzed: 09/24/2022					
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	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

**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 B2I1920 - EPA 5030 (soil)**

**LCS (B2I1920-BS1)**

Prepared: 09/19/2022 Analyzed: 09/24/2022

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.0988	0.00380	"	0.100		98.8	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

**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 B2I1920 - EPA 5030 (soil)**

Matrix Spike (B2I1920-MS1)		Source: Y209267-01			Prepared: 09/19/2022 Analyzed: 09/24/2022					
1,2,4-Trimethylbenzene	0.0927	0.00200	mg/kg	0.100	0.00532	87.4	70-130			
1,3,5-Trimethylbenzene	0.0940	0.00200	"	0.100	0.00186	92.1	70-130			
Benzene	0.104	0.00200	"	0.100	0.00308	100	70-130			
Ethylbenzene	0.0991	0.00200	"	0.100	0.00200	97.1	70-130			
Naphthalene	0.109	0.00380	"	0.100	0.000880	108	70-130			
Toluene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.207	0.00400	"	0.200	0.0107	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

**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
<b>Batch B2I1920 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2I1920-MSD1)</b>	<b>Source: Y209267-01</b>				Prepared: 09/19/2022 Analyzed: 09/24/2022					
1,2,4-Trimethylbenzene	0.0965	0.00200	mg/kg	0.100	0.00532	91.1	70-130	3.95	20	
1,3,5-Trimethylbenzene	0.0961	0.00200	"	0.100	0.00186	94.3	70-130	2.23	20	
Benzene	0.111	0.00200	"	0.100	0.00308	107	70-130	6.52	20	
Ethylbenzene	0.101	0.00200	"	0.100	0.00200	99.1	70-130	2.04	20	
Naphthalene	0.122	0.00380	"	0.100	0.000880	121	70-130	11.6	20	
Toluene	0.0986	0.00200	"	0.100	ND	98.6	70-130	0.869	20	
o-Xylene	0.0993	0.00200	"	0.100	ND	99.3	70-130	1.77	20	
m,p-Xylene	0.214	0.00400	"	0.200	0.0107	102	70-130	3.52	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H Facility

**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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**\*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 B2I1912 - Default Prep Metals**

**Blank (B2I1912-BLK1)**

Prepared: 09/19/2022 Analyzed: 09/20/2022

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

**LCS (B2I1912-BS1)**

Prepared: 09/19/2022 Analyzed: 09/20/2022

Arsenic	0.0505	0.000100	mg/kg	0.0500	101	80-120
Barium	5.08	0.0100	"	5.00	102	80-120
Cadmium	0.0523	0.000100	"	0.0500	105	80-120
Copper	0.526	0.0100	"	0.500	105	80-120
Lead	0.0514	0.0100	"	0.0500	103	80-120
Nickel	0.0520	0.0100	"	0.0500	104	80-120
Selenium	0.0508	0.000100	"	0.0500	102	80-120
Silver	0.0470	0.000100	"	0.0500	94.0	80-120
Zinc	0.498	0.100	"	0.500	99.5	80-120

**Matrix Spike (B2I1912-MS1)**

**Source: Y209332-03**

Prepared: 09/19/2022 Analyzed: 09/20/2022

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

\*\*\* DEFAULT GENERAL METHOD \*\*\* - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2I1912 - Default Prep Metals</b>										
<b>Matrix Spike (B2I1912-MS1)</b>		<b>Source: Y209332-03</b>			Prepared: 09/19/2022 Analyzed: 09/20/2022					
Arsenic	9.11	0.0987	mg/kg	4.94	4.35	96.4	75-125			
Barium	707	9.87	"	494	201	102	75-125			
Cadmium	5.25	0.0987	"	4.94	0.110	104	75-125			
Copper	50.7	9.87	"	49.4	2.09	98.4	75-125			
Lead	11.9	9.87	"	4.94	7.38	92.6	75-125			
Nickel	13.7	9.87	"	4.94	10.7	60.7	75-125			QM-07
Selenium	5.21	0.0987	"	4.94	0.206	101	75-125			
Silver	4.68	0.0987	"	4.94	0.0208	94.3	75-125			
Zinc	77.6	98.7	"	49.4	32.5	91.3	75-125			
<b>Matrix Spike Dup (B2I1912-MSD1)</b>		<b>Source: Y209332-03</b>			Prepared: 09/19/2022 Analyzed: 09/20/2022					
Arsenic	8.97	0.0958	mg/kg	4.79	4.35	96.5	75-125	1.57	20	
Barium	705	9.58	"	479	201	105	75-125	0.201	20	
Cadmium	5.24	0.0958	"	4.79	0.110	107	75-125	0.217	20	
Copper	51.1	9.58	"	47.9	2.09	102	75-125	0.855	20	
Lead	11.6	9.58	"	4.79	7.38	88.6	75-125	2.81	20	
Nickel	13.2	9.58	"	4.79	10.7	52.5	75-125	3.57	20	QM-07
Selenium	4.72	0.0958	"	4.79	0.206	94.4	75-125	9.81	20	
Silver	4.67	0.0958	"	4.79	0.0208	97.1	75-125	0.161	20	
Zinc	77.9	95.8	"	47.9	32.5	94.7	75-125	0.349	20	

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

## 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 B2I1904 - Default Prep Metals

##### Blank (B2I1904-BLK1)

Prepared: 09/19/2022 Analyzed: 09/20/2022

Boron ND 0.100 mg/L

##### Duplicate (B2I1904-DUP1)

Source: Y209345-01

Prepared: 09/19/2022 Analyzed: 09/20/2022

Boron 0.287 0.100 mg/L 0.380 28.0 50

#### Batch B2I1905 - Default Prep Metals

##### Blank (B2I1905-BLK1)

Prepared: 09/19/2022 Analyzed: 09/20/2022

SAR 0.00 SAR  
Calcium PPM ND 10.0 mg/L  
Magnesium PPM ND 10.0 "  
Sodium PPM ND 10.0 "

##### Duplicate (B2I1905-DUP1)

Source: Y209340-01

Prepared: 09/19/2022 Analyzed: 09/20/2022

Calcium PPM 163 10.0 mg/L 151 7.21 50  
SAR 0.00 SAR 1.93 200 200  
Magnesium PPM 76.7 10.0 mg/L 67.9 12.2 50  
Sodium PPM 104 10.0 " 114 8.52 50

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2I1906 - NO PREP</b>										
<b>Blank (B2I1906-BLK1)</b>					Prepared: 09/19/2022 Analyzed: 09/20/2022					
pH	0.00		pH Units							
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B2I1906-DUP1)</b>					Source: Y209340-01 Prepared: 09/19/2022 Analyzed: 09/20/2022					
Specific Conductance (EC)	1.89	0.00500	mmhos/cm		1.75			7.92	25	
pH	7.81		pH Units		7.89			1.02	25	

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L638567 - 3550B**

MSD (L 85077-MSD-L638567)		Source: 85077			Prepared: 09/20/2022 Analyzed: 09/21/2022					
Benzo(k)fluoranthene	0.142	0.00067	mg/Kg	0.167	<0.000437	85	30-130	5	30	
Chrysene	0.126	0.00067	"	0.167	<0.000624	75.4	30-130	1.6	30	
Fluoranthene	0.129	0.00067	"	0.167	<0.000394	77.2	30-130	1.5	30	
Indeno(1,2,3-cd)pyrene	0.227	0.00067	"	0.167	<0.000627	136	30-130	8.7	30	*
Naphthalene	0.109	0.00067	"	0.167	<0.000484	65.2	30-130	1.8	30	
Benzo(b)fluoranthene	0.148	0.00067	"	0.167	<0.000585	88.6	30-130	2	30	
Pyrene	0.13	0.00067	"	0.167	<0.000643	77.8	30-130	0.7	30	
Dibenz(a,h)anthracene	0.222	0.00067	"	0.167	<0.000614	133	30-130	7.9	30	*
1-Methylnaphthalene	0.114	0.00067	"	0.167	<0.000364	68.2	30-130	3.4	30	
Benzo(a)pyrene	0.14	0.00067	"	0.167	<0.000468	83.8	30-130	2.1	30	
Benzo(a)anthracene	0.13	0.00067	"	0.167	<0.000493	77.8	30-130	3.1	30	
Anthracene	0.123	0.00067	"	0.167	<0.000334	73.6	30-130	0.8	30	
Acenaphthene	0.116	0.00067	"	0.167	<0.000304	69.4	30-130	1.7	30	
2-Methylnaphthalene	0.112	0.00067	"	0.167	<0.000645	67	30-130	2.6	30	
Fluorene	0.119	0.00067	"	0.167	<0.000286	71.2	30-130	1.6	30	
Surrogate: Nitrobenzene-d5	54		"	0.333	191	54	29-110			
Surrogate: 4-Terphenyl-d14	71.7		"	0.333	235	71.7	33-122			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333	208	62.7	33-115			

MS (L 85077-MS-L638567)		Source: 85077			Prepared: 09/20/2022 Analyzed: 09/21/2022					
Chrysene	0.124	0.00067	mg/Kg	0.166	<0.000624	74.6	30-130			
Dibenz(a,h)anthracene	0.205	0.00067	"	0.166	<0.000614	123	30-130			
Fluoranthene	0.127	0.00067	"	0.166	<0.000394	76.5	30-130			
Fluorene	0.121	0.00067	"	0.166	<0.000286	72.8	30-130			
Indeno(1,2,3-cd)pyrene	0.208	0.00067	"	0.166	<0.000627	125	30-130			
Benzo(k)fluoranthene	0.135	0.00067	"	0.166	<0.000437	81.3	30-130			
Naphthalene	0.111	0.00067	"	0.166	<0.000484	66.8	30-130			

Origins Laboratory, Inc.



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.

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L638567 - 3550B**

MS (L 85077-MS-L638567)		Source: 85077			Prepared: 09/20/2022 Analyzed: 09/21/2022					
Benzo(b)fluoranthene	0.145	0.00067	mg/Kg	0.166	<0.000585	87.3	30-130			
Benzo(a)pyrene	0.137	0.00067	"	0.166	<0.000468	82.5	30-130			
Benzo(a)anthracene	0.126	0.00067	"	0.166	<0.000493	75.9	30-130			
Acenaphthene	0.118	0.00067	"	0.166	<0.000304	71	30-130			
Pyrene	0.129	0.00067	"	0.166	<0.000643	77.7	30-130			
2-Methylnaphthalene	0.115	0.00067	"	0.166	<0.000645	69.2	30-130			
1-Methylnaphthalene	0.118	0.00067	"	0.166	<0.000364	71	30-130			
Anthracene	0.124	0.00067	"	0.166	<0.000334	74.6	30-130			
Surrogate: Nitrobenzene-d5	57		"	0.331	191	57	29-110			
Surrogate: 4-Terphenyl-d14	74		"	0.331	235	74	33-122			
Surrogate: 2-Fluorobiphenyl	68.5		"	0.331	208	68.5	33-115			

LCS (LCS-L638567)		Prepared: 09/20/2022 Analyzed: 09/21/2022								
Indeno(1,2,3-cd)pyrene	0.21	0.00067	mg/Kg	0.167		126	30-130			
Benzo(a)anthracene	0.125	0.00067	"	0.167		74.8	30-130			
Naphthalene	0.115	0.00067	"	0.167		68.8	30-130			
Fluoranthene	0.133	0.00067	"	0.167		79.6	30-130			
Chrysene	0.128	0.00067	"	0.167		76.6	30-130			
Benzo(k)fluoranthene	0.132	0.00067	"	0.167		79	30-130			
Pyrene	0.133	0.00067	"	0.167		79.6	30-130			
Benzo(a)pyrene	0.142	0.00067	"	0.167		85	30-130			
Fluorene	0.12	0.00067	"	0.167		71.8	30-130			
Anthracene	0.128	0.00067	"	0.167		76.6	30-130			
Acenaphthene	0.119	0.00067	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.117	0.00067	"	0.167		70	30-130			
1-Methylnaphthalene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(b)fluoranthene	0.148	0.00067	"	0.167		88.6	30-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L638567 - 3550B**

**LCS (LCS-L638567)**

Prepared: 09/20/2022 Analyzed: 09/21/2022

Dibenz(a,h)anthracene	0.204	0.00067	mg/Kg	0.167		122	30-130			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 4-Terphenyl-d14	83.4		"	0.333		83.4	33-122			
Surrogate: 2-Fluorobiphenyl	71.7		"	0.333		71.7	33-115			

**LRB (LRB-L638567)**

Prepared: 09/20/2022 Analyzed: 09/21/2022

Chrysene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333		73.2	33-122			
Surrogate: Nitrobenzene-d5	58.8		"	0.333		58.8	29-110			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L638912 -</b>										
<b>DUP (L 85094-DUP)</b>		<b>Source: 85094</b>			Prepared: Analyzed: 09/21/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 85094-MS)</b>		<b>Source: 85094</b>			Prepared: Analyzed: 09/21/2022					
Chromium, Hexavalent	34.3	2.57	mg/Kg	41.2	< 0.250	83	75-125			
<b>MSD (L 85094-MSD)</b>		<b>Source: 85094</b>			Prepared: Analyzed: 09/21/2022					
Chromium, Hexavalent	631	51.6	mg/Kg	705	<25.2	90	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 09/21/2022					
Chromium, Hexavalent	7.4	0.5	mg/Kg	8		93	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 09/21/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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.

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L638911 -</b>										
<b>DUP (L 85096-DUP)</b>		<b>Source: Y209345-01</b>			Prepared: Analyzed: 09/21/2022					
Chromium, Hexavalent	ND	0.52	mg/Kg		<0.520	-		0	20	
<b>MS (L 85096-MS)</b>		<b>Source: Y209345-01</b>			Prepared: Analyzed: 09/21/2022					
Chromium, Hexavalent	32.1	2.5	mg/Kg	38.9	< 0.244	83	75-125			
<b>MSD (L 85096-MSD)</b>		<b>Source: Y209345-01</b>			Prepared: Analyzed: 09/21/2022					
Chromium, Hexavalent	625	50	mg/Kg	602	<24.4	104	75-125			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Anschutz Windmill 10-34H  
Facility

## Notes and Definitions

U Sample is Non-Detect.

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

\* 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.

Origins Laboratory, Inc.



*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.*



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 09, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Anschute Windmill 10-34H

Work Order #2211069

Enclosed are the results of analyses for samples received by Summit Scientific on 11/03/22 17:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Anschute Windmill 10-34H

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 08:41

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02@4'	2211069-01	Soil	11/03/22 09:30	11/03/22 17:13
BG02@4'	2211069-02	Soil	11/03/22 09:40	11/03/22 17:13

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.*

# Summit Scientific

Page 1 of 1

Project Manager: Sam Vogt, Jacob Evans  
E-Mail: svogt@tasman-geo.com, jevans@civiresources.com  
Project Name: Anschütz Windmill 10-34H  
Project Number:

[illegible]

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2211069Client: Critter/tasman Client Project ID: Anschutz windmill 10-34HShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

	-			
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.0Thermometer # 1

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

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

11.3.22  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Anschute Windmill 10-34H

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 08:41

**SS02@4'**  
**2211069-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/22 09:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>61.3</b>	0.0525	mg/L dry	1	BFK0105	11/03/22	11/05/22	EPA 6020B	
Magnesium	<b>18.9</b>	0.0525	"	"	"	"	"	"	
Sodium	<b>169</b>	0.0525	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/03/22 09:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	<b>4.84</b>	0.00100	units	1	BFK0213	11/08/22	11/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/03/22 09:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	<b>95.3</b>		%	1	BFK0133	11/04/22	11/05/22	Calculation	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Anschute Windmill 10-34H

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 08:41

**BG02@4'**  
**2211069-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/22 09:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	126	0.0511	mg/L dry	1	BFK0105	11/03/22	11/05/22	EPA 6020B	
Magnesium	38.9	0.0511	"	"	"	"	"	"	
Sodium	1.34	0.0511	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/03/22 09:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0268	0.00100	units	1	BFK0213	11/08/22	11/08/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/03/22 09:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.8		%	1	BFK0133	11/04/22	11/05/22	Calculation	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Anschute Windmill 10-34H

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 08:41

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

**Summit Scientific**

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

**Batch BFK0105 - General Preparation**

**Blank (BFK0105-BLK1)**

Prepared: 11/03/22 Analyzed: 11/04/22

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

**LCS (BFK0105-BS1)**

Prepared: 11/03/22 Analyzed: 11/04/22

Calcium	5.49	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.13	0.0500	"	5.00	103	70-130
Sodium	5.11	0.0500	"	5.00	102	70-130

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.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Anschute Windmill 10-34H

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 08:41

**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 BFK0133 - General Preparation**

Duplicate (BFK0133-DUP1)		Source: 2211037-01		Prepared: 11/04/22 Analyzed: 11/05/22	
% Solids	74.3		%	75.0	0.980 20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Anschute Windmill 10-34H

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 08:41

### 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