

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 18, 2024

Chandler Cole

Tasman Geosciences

6855 W. 119th Ave.

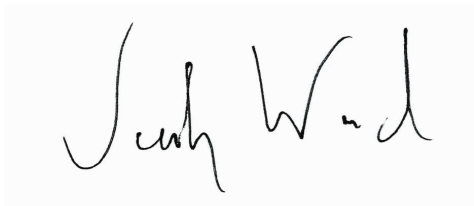
Broomfield, CO 80020

RE: P66 - Knaub 9-13G

Work Order #2405423

Enclosed are the results of analyses for samples received by Summit Scientific on 05/28/24 17:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

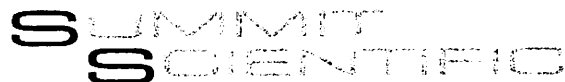
Reported:
06/18/24 10:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Confirmation - North@5.5'	2405423-01	Soil	05/28/24 12:15	05/28/24 17:34
Confirmation - North@7'	2405423-02	Soil	05/28/24 12:20	05/28/24 17:34
Confirmation - East@6'	2405423-03	Soil	05/28/24 12:45	05/28/24 17:34
Confirmation - East@7'	2405423-04	Soil	05/28/24 12:50	05/28/24 17:34
Confirmation - South@6'	2405423-05	Soil	05/28/24 13:10	05/28/24 17:34
Confirmation - South@7'	2405423-06	Soil	05/28/24 13:15	05/28/24 17:34
Confirmation - West@3.5'	2405423-07	Soil	05/28/24 10:35	05/28/24 17:34
Confirmation - West@7'	2405423-08	Soil	05/28/24 11:05	05/28/24 17:34
Confirmation - Base@4'	2405423-09	Soil	05/28/24 11:30	05/28/24 17:34
Confirmation - Base@7'	2405423-10	Soil	05/28/24 11:45	05/28/24 17:34

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2405423	

Client: Tasman /DCP		Send Data To: Project Manager: Brian Humphrey / Chandler Cole		Send Invoice To: Company: P66	
Address: 6855 W 119th Ave		E-Mail: bhumphrey@tasman-geo.com		Project Name/Location: Knab 9-13 G	
City/State/Zip: Broomfield / CO / 80220		chandler.e.cole@p66.com, jwatts@tasman-geo.com		AFE#:	
Phone: 303-487-1228		Project Name: Knab 9-13 G		PO/Billing Codes:	
Sampler Name: Keegan M.		Project Number:		Contact: Chandler Cole	

				Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1								
1	Confirmation-North@5.5'	5/28/24	12:15	2			X			X			X								
2	Confirmation-North@ 7'		12:20										X								
3	Confirmation-East@ 6'		12:45										X								
4	Confirmation-East@ 7'		12:50										X								
5	Confirmation-South@ 6'		13:10										X								
6	Confirmation-South@ 7'		13:15										X								
7	Confirmation-West@3.5'		10:35										X								
8	Confirmation-West@ 7'		11:05										X								
9	Confirmation-base@ 4'		11:30										X								
10	Confirmation-base@ 7'	↓	11:45	↓			↓			↓			X								
11																					
12																					
13																					
14																					
15																					

Relinquished by: Keegan M. Dwyer	Date/Time: 5/28/24 16:42	Received by: [Signature]	Date/Time: 5/28/24 17:34	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman [Signature]	Date/Time: 5/28/24 17:34	Received by: [Signature]	Date/Time: 5/28/24 17:34	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 7.3	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2405423Client: DCI/Tasman Client Project ID: Krawb 9-13 GShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	an2ce
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS
Custodian Printed Name

5/28/24
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - North@5.5'
2405423-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BHE0933	05/30/24	05/31/24	EPA 8260B	R-05
Toluene	ND	0.50	"	"	"	"	"	"	R-05
Ethylbenzene	ND	0.50	"	"	"	"	"	"	R-05
Xylenes (total)	ND	1.0	"	"	"	"	"	"	R-05
1,2,4-Trimethylbenzene	12	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	2.9	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.38	"	"	"	"	"	"	R-05
Gasoline Range Hydrocarbons	1100	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0483	121 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	76	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	5.55	44.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

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Confirmation - North@5.5'
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PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	0.0342	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.486	0.0500	"	10	"	"	05/31/24	"	
2-Methylnaphthalene	1.69	0.0500	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0707	212 %	40-150		"	"	05/31/24	"	S-02
Surrogate: Fluoranthene-d10	0.0278	83.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

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06/18/24 10:57

Confirmation - North@5.5'
2405423-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.614	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	24.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.61	0.400	"	"	"	"	"	"
Lead	2.92	0.200	"	"	"	"	"	"
Nickel	3.09	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.5	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	38.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - North@5.5'
2405423-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.1			%	1	BHF0016	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.900	0.0100		mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.36			pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

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Project: P66 - Knaub 9-13G

Project Number: [none]
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Confirmation - North@7'
2405423-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHE0933	05/30/24	05/31/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.070	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.0098	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.2	0.50	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0398	99.6 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0398	99.4 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0487	122 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	9.49	75.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Confirmation - North@7'
2405423-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00585	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.00915	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0252	0.00500	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0219	65.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0279	83.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - North@7'
2405423-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.854	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	18.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.76	0.400	"	"	"	"	"	"
Lead	2.46	0.200	"	"	"	"	"	"
Nickel	2.38	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.96	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.2	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	8.50	0.0500	"	"	"	"	"	"	
Sodium	87.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.86	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - North@7'
2405423-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.2		%	1	BHF0016	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - East@6'
2405423-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BHE0933	05/30/24	05/31/24	EPA 8260B	R-05
Toluene	ND	0.50	"	"	"	"	"	"	R-05
Ethylbenzene	ND	0.50	"	"	"	"	"	"	R-05
Xylenes (total)	1.8	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.2	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.1	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.38	"	"	"	"	"	"	R-05
Gasoline Range Hydrocarbons	240	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0387	96.7 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0403	101 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0415	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>	9.31	74.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - East@6'
2405423-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00913	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.108	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.252	0.00500	"	"	"	"	"	"	E

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	72.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - East@6'
2405423-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.927	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	30.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.92	0.400	"	"	"	"	"	"
Lead	3.18	0.200	"	"	"	"	"	"
Nickel	3.08	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	421	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	78.7	0.0500	"	"	"	"	"	"	
Sodium	52.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.618	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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6855 W. 119th Ave.
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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - East@6'
2405423-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BHF0016	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - East@7'
2405423-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHE0933	05/30/24	06/02/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.074	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.75	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.2	0.50	"	100	"	"	05/31/24	"	
1,3,5-Trimethylbenzene	0.45	0.0050	"	1	"	"	06/02/24	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	47	0.50	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0484	121 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0885	221 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.58	52.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - East@7'
2405423-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0100	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0767	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.129	0.00500	"	"	"	"	"	"	

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - East@7'
2405423-04 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.07	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	37.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.14	0.400	"	"	"	"	"	"
Lead	3.28	0.200	"	"	"	"	"	"
Nickel	3.22	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	13.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	252	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	49.2	0.0500	"	"	"	"	"	"	
Sodium	66.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.00	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - East@7'
2405423-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BHF0016	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.27	0.0100	mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - South@6'
2405423-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.020	mg/kg	10	BHE0933	05/30/24	05/31/24	EPA 8260B	R-05
Toluene	ND	0.050	"	"	"	"	"	"	R-05
Ethylbenzene	1.9	0.050	"	"	"	"	"	"	
Xylenes (total)	19	1.0	"	100	"	"	06/02/24	"	
1,2,4-Trimethylbenzene	6.9	0.050	"	10	"	"	05/31/24	"	E
1,3,5-Trimethylbenzene	6.0	0.050	"	"	"	"	"	"	
Naphthalene	0.19	0.038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	420	5.0	"	"	"	"	"	"	

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	98.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0584	146 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	79	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.59	60.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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6855 W. 119th Ave.
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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - South@6'
2405423-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00746	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0105	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.167	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.452	0.00500	"	"	"	"	"	"	E

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0248	74.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - South@6'
2405423-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.52	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	102	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	6.70	0.400	"	"	"	"	"	"
Lead	6.45	0.200	"	"	"	"	"	"
Nickel	5.99	0.400	"	"	"	"	"	"
Silver	0.0311	0.0200	"	"	"	"	"	"
Zinc	25.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	288	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	70.7	0.0500	"	"	"	"	"	"	
Sodium	33.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.456	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - South@6'
2405423-05 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.0			%	1	BHF0016	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.04	0.0100		mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.19			pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - South@7'
2405423-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0030	0.0020	mg/kg	1	BHE0933	05/30/24	05/31/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.78	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	8.3	0.50	"	100	"	"	06/02/24	"	
1,3,5-Trimethylbenzene	6.5	0.50	"	"	"	"	"	"	
Naphthalene	0.072	0.0038	"	1	"	"	05/31/24	"	
Gasoline Range Hydrocarbons	540	50	"	100	"	"	06/02/24	"	

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.4 %	50-150		"	"	05/31/24	"	
Surrogate: Toluene-d8	0.0375	93.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.151	378 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.63	53.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - South@7'
2405423-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00925	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0126	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.270	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.526	0.00500	"	"	"	"	"	"	E

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0263	78.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	62.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - South@7'
2405423-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.39	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	44.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.44	0.400	"	"	"	"	"	"
Lead	4.86	0.200	"	"	"	"	"	"
Nickel	3.87	0.400	"	"	"	"	"	"
Silver	0.0200	0.0200	"	"	"	"	"	"
Zinc	19.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	402	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	91.3	0.0500	"	"	"	"	"	"	
Sodium	38.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.451	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - South@7'
2405423-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.5			%	1	BHF0016	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.948	0.0100		mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.24			pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - West@3.5'
2405423-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHE0933	05/30/24	05/31/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.42	0.0050	"	"	"	"	"	"	
Xylenes (total)	18	1.0	"	100	"	"	06/02/24	"	
1,2,4-Trimethylbenzene	15	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	12	0.50	"	"	"	"	"	"	
Naphthalene	0.20	0.0038	"	1	"	"	05/31/24	"	
Gasoline Range Hydrocarbons	540	50	"	100	"	"	06/02/24	"	

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0366	91.5 %	50-150		"	"	05/31/24	"	
Surrogate: Toluene-d8	0.0380	95.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.198	494 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	130	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.04	64.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - West@3.5'
2405423-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0223	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0288	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	1.07	0.0500	"	10	"	"	06/03/24	"	
2-Methylnaphthalene	2.47	0.0500	"	"	"	"	"	"	E

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0738	221 %	40-150		"	"	05/31/24	"	S-02
Surrogate: Fluoranthene-d10	0.0226	67.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 10:35**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - West@3.5'
2405423-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.39	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	47.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.92	0.400	"	"	"	"	"	"
Lead	5.88	0.200	"	"	"	"	"	"
Nickel	4.27	0.400	"	"	"	"	"	"
Silver	0.0274	0.0200	"	"	"	"	"	"
Zinc	20.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	546	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	83.4	0.0500	"	"	"	"	"	"	
Sodium	5.53	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0582	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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6855 W. 119th Ave.
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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - West@3.5'
2405423-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.9			%	1	BHF0016	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.498	0.0100		mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.72			pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

Summit Scientific

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - West@7'
2405423-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHE0933	05/30/24	06/02/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.54	0.50	"	"	"	"	"	"	

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0453	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0425	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.34	34.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - West@7'
2405423-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - West@7'
2405423-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.895	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	27.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.42	0.400	"	"	"	"	"	"
Lead	2.47	0.200	"	"	"	"	"	"
Nickel	2.16	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.7	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	9.43	0.0500	"	"	"	"	"	"	
Sodium	101	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.28	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - West@7'
2405423-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.8			%	1	BHF0016	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.28	0.0100		mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.08			pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

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Tasman Geosciences
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Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - Base@4'
2405423-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	0.038	0.020	mg/kg	10	BHE0933	05/30/24	05/31/24	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	R-05
Ethylbenzene	3.2	0.50	"	100	"	"	06/02/24	"	
Xylenes (total)	71	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	29	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	25	0.50	"	"	"	"	"	"	
Naphthalene	0.77	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1300	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0412	103 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0407	102 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0503	126 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	320	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>	8.55	68.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - Base@4'
2405423-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	0.0568	0.0500	mg/kg	10	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Chrysene	ND	0.0500	"	"	"	"	"	"	R-05
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	R-05
Fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Fluorene	0.0880	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
Pyrene	ND	0.0500	"	"	"	"	"	"	R-05
1-Methylnaphthalene	2.29	0.0500	"	"	"	"	"	"	E
2-Methylnaphthalene	4.78	0.0500	"	"	"	"	"	"	E

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	-0.00202	%	40-150		"	"	"	"	S-04

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - Base@4'
2405423-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.39	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	49.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.55	0.400	"	"	"	"	"	"
Lead	4.91	0.200	"	"	"	"	"	"
Nickel	4.36	0.400	"	"	"	"	"	"
Silver	0.0201	0.0200	"	"	"	"	"	"
Zinc	19.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	673	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	69.5	0.0500	"	"	"	"	"	"	
Sodium	9.35	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0917	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - Base@4'
2405423-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHF0015	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.562	0.0100	mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.65		pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - Base@7'
2405423-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHE0933	05/30/24	05/31/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.32	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.97	0.10	"	10	"	"	06/02/24	"	
1,2,4-Trimethylbenzene	0.41	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.32	0.050	"	"	"	"	"	"	
Naphthalene	0.042	0.0038	"	1	"	"	05/31/24	"	
Gasoline Range Hydrocarbons	32	5.0	"	10	"	"	06/02/24	"	

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0457	114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0932	05/30/24	05/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.38	75.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - Base@7'
2405423-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHE0913	05/30/24	05/31/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0252	75.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHE0921	05/30/24	06/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - Base@7'
2405423-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.866	0.200	mg/kg dry	1	BHE0924	05/30/24	05/31/24	EPA 6020B
Barium	21.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.49	0.400	"	"	"	"	"	"
Lead	2.76	0.200	"	"	"	"	"	"
Nickel	2.45	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0017	06/03/24	06/03/24	EPA 7196A	

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

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.8	0.0500	mg/L dry	1	BHE0904	05/29/24	06/01/24	EPA 6020B	
Magnesium	9.64	0.0500	"	"	"	"	"	"	
Sodium	97.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.10	0.00100	units	1	BHF0115	06/05/24	06/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Confirmation - Base@7'
2405423-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.0			%	1	BHF0015	06/03/24	06/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.20	0.0100		mmhos/cm	1	BHE0906	05/29/24	05/30/24	EPA 120.1	

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

Date Sampled: **05/28/24 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.96			pH Units	1	BHE0907	05/29/24	05/30/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHE0933 - EPA 5030 Soil MS

Blank (BHE0933-BLK1)

Prepared: 05/30/24 Analyzed: 05/31/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

LCS (BHE0933-BS1)

Prepared: 05/30/24 Analyzed: 05/31/24

Benzene	0.113	0.0020	mg/kg	0.100		113	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.226	0.010	"	0.200		113	70-130			
o-Xylene	0.112	0.0050	"	0.100		112	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
Naphthalene	0.100	0.0038	"	0.100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.5	50-150			

Matrix Spike (BHE0933-MS1)

Source: 2405416-01

Prepared: 05/30/24 Analyzed: 05/31/24

Benzene	0.0618	0.0020	mg/kg	0.100	ND	61.8	70-130			QM-07
Toluene	0.0646	0.0050	"	0.100	ND	64.6	70-130			QM-07
Ethylbenzene	0.0827	0.0050	"	0.100	ND	82.7	70-130			
m,p-Xylene	0.163	0.010	"	0.200	ND	81.5	70-130			
o-Xylene	0.0824	0.0050	"	0.100	ND	82.4	70-130			
1,2,4-Trimethylbenzene	0.0698	0.0050	"	0.100	ND	69.8	70-130			QM-07
1,3,5-Trimethylbenzene	0.0789	0.0050	"	0.100	ND	78.9	70-130			
Naphthalene	0.0466	0.0038	"	0.100	ND	46.6	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHE0933 - EPA 5030 Soil MS

Matrix Spike Dup (BHE0933-MSD1)		Source: 2405416-01			Prepared: 05/30/24 Analyzed: 05/31/24					
Benzene	0.0640	0.0020	mg/kg	0.100	ND	64.0	70-130	3.53	30	QM-07
Toluene	0.0650	0.0050	"	0.100	ND	65.0	70-130	0.556	30	QM-07
Ethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130	4.85	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.4	70-130	4.60	30	
o-Xylene	0.0862	0.0050	"	0.100	ND	86.2	70-130	4.45	30	
1,2,4-Trimethylbenzene	0.0752	0.0050	"	0.100	ND	75.2	70-130	7.36	30	
1,3,5-Trimethylbenzene	0.0835	0.0050	"	0.100	ND	83.5	70-130	5.62	30	
Naphthalene	0.0485	0.0038	"	0.100	ND	48.5	70-130	3.91	30	QM-07
Surrogate: 1,2-Dichloroethane-d4		0.0423	"	0.0400		106	50-150			
Surrogate: Toluene-d8		0.0395	"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene		0.0396	"	0.0400		98.9	50-150			

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHE0932 - EPA 3550A

Blank (BHE0932-BLK1)

Prepared & Analyzed: 05/30/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.9		"	12.5		127	30-150			

LCS (BHE0932-BS1)

Prepared & Analyzed: 05/30/24

C10-C28 (DRO)	379	50	mg/kg	500		75.8	70-130			
Surrogate: o-Terphenyl	11.2		"	12.5		89.8	30-150			

Matrix Spike (BHE0932-MS1)

Source: 2405416-01

Prepared: 05/30/24 Analyzed: 05/31/24

C10-C28 (DRO)	417	50	mg/kg	500	18.1	79.8	70-130			
Surrogate: o-Terphenyl	9.65		"	12.5		77.2	30-150			

Matrix Spike Dup (BHE0932-MSD1)

Source: 2405416-01

Prepared: 05/30/24 Analyzed: 05/31/24

C10-C28 (DRO)	361	50	mg/kg	500	18.1	68.6	70-130	14.5	20	QM-07
Surrogate: o-Terphenyl	8.66		"	12.5		69.2	30-150			

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHE0913 - EPA 5030 Soil MS

Blank (BHE0913-BLK1)

Prepared: 05/30/24 Analyzed: 05/31/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0250		"	0.0333		74.9	40-150			
Surrogate: Fluoranthene-d10	0.0290		"	0.0333		86.9	40-150			

LCS (BHE0913-BS1)

Prepared: 05/30/24 Analyzed: 05/31/24

Acenaphthene	0.0228	0.00500	mg/kg	0.0333		68.3	31-137			
Anthracene	0.0231	0.00500	"	0.0333		69.3	30-120			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333		73.9	30-120			
Benzo (a) pyrene	0.0210	0.00500	"	0.0333		63.1	30-120			
Benzo (b) fluoranthene	0.0225	0.00500	"	0.0333		67.5	30-120			
Benzo (k) fluoranthene	0.0224	0.00500	"	0.0333		67.1	30-120			
Chrysene	0.0236	0.00500	"	0.0333		70.7	30-120			
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333		49.8	30-120			
Fluoranthene	0.0229	0.00500	"	0.0333		68.8	30-120			
Fluorene	0.0238	0.00500	"	0.0333		71.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333		54.1	30-120			
Pyrene	0.0263	0.00500	"	0.0333		79.0	35-142			
1-Methylnaphthalene	0.0261	0.00500	"	0.0333		78.3	35-142			
2-Methylnaphthalene	0.0344	0.00500	"	0.0333		103	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0204		"	0.0333		61.1	40-150			
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.9	40-150			

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHE0913 - EPA 5030 Soil MS

Matrix Spike (BHE0913-MS1)				Source: 2405421-01		Prepared: 05/30/24 Analyzed: 05/31/24					
Acenaphthene	0.0179	0.00500	mg/kg	0.0333	ND	53.7	31-137				
Anthracene	0.0177	0.00500	"	0.0333	ND	53.1	30-120				
Benzo (a) anthracene	0.0201	0.00500	"	0.0333	ND	60.2	30-120				
Benzo (a) pyrene	0.0171	0.00500	"	0.0333	ND	51.3	30-120				
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.2	30-120				
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.8	30-120				
Chrysene	0.0199	0.00500	"	0.0333	ND	59.7	30-120				
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.8	30-120				
Fluoranthene	0.0177	0.00500	"	0.0333	ND	53.2	30-120				
Fluorene	0.0162	0.00500	"	0.0333	ND	48.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333	ND	49.1	30-120				
Pyrene	0.0222	0.00500	"	0.0333	ND	66.6	35-142				
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	54.8	15-130				
2-Methylnaphthalene	0.0180	0.00500	"	0.0333	ND	54.1	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0150		"	0.0333		44.9	40-150				
Surrogate: Fluoranthene-d10	0.0169		"	0.0333		50.8	40-150				

Matrix Spike Dup (BHE0913-MSD1)				Source: 2405421-01		Prepared: 05/30/24 Analyzed: 05/31/24					
Acenaphthene	0.0204	0.00500	mg/kg	0.0333	ND	61.1	31-137	12.8	30		
Anthracene	0.0191	0.00500	"	0.0333	ND	57.4	30-120	7.77	30		
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	6.28	30		
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	5.27	30		
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.8	30-120	4.76	30		
Benzo (k) fluoranthene	0.0186	0.00500	"	0.0333	ND	55.7	30-120	3.54	30		
Chrysene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	3.02	30		
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	5.87	30		
Fluoranthene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	6.13	30		
Fluorene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	15.4	30		
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	0.386	30		
Pyrene	0.0238	0.00500	"	0.0333	ND	71.5	35-142	7.19	30		
1-Methylnaphthalene	0.0196	0.00500	"	0.0333	ND	59.0	15-130	7.33	50		
2-Methylnaphthalene	0.0240	0.00500	"	0.0333	ND	72.1	15-130	28.5	50		
Surrogate: 2-Methylnaphthalene-d10	0.0166		"	0.0333		49.7	40-150				
Surrogate: Fluoranthene-d10	0.0181		"	0.0333		54.4	40-150				

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Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

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

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

Batch BHE0921 - EPA 3050B

Blank (BHE0921-BLK1)

Prepared: 05/30/24 Analyzed: 06/11/24

Boron ND 2.00 mg/L

LCS (BHE0921-BS1)

Prepared: 05/30/24 Analyzed: 06/11/24

Boron 4.67 2.00 mg/L 5.00 93.4 80-120

Duplicate (BHE0921-DUP1)

Source: 2405423-01

Prepared: 05/30/24 Analyzed: 06/11/24

Boron 0.180 2.00 mg/L 0.193 7.31 20

Matrix Spike (BHE0921-MS1)

Source: 2405423-01

Prepared: 05/30/24 Analyzed: 06/11/24

Boron 5.19 2.00 mg/L 4.98 0.193 100 75-125

Matrix Spike Dup (BHE0921-MSD1)

Source: 2405423-01

Prepared: 05/30/24 Analyzed: 06/11/24

Boron 5.05 2.00 mg/L 4.98 0.193 97.5 75-125 2.79 25

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHE0924 - EPA 3050B

Blank (BHE0924-BLK1)

Prepared: 05/30/24 Analyzed: 05/31/24

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

LCS (BHE0924-BS1)

Prepared: 05/30/24 Analyzed: 05/31/24

Arsenic	39.2	0.200	mg/kg wet	39.7	98.8	80-120
Barium	41.8	0.400	"	39.7	105	80-120
Cadmium	2.07	0.200	"	1.98	104	80-120
Copper	39.4	0.400	"	39.7	99.2	80-120
Lead	20.6	0.200	"	19.8	104	80-120
Nickel	39.6	0.400	"	39.7	99.7	80-120
Silver	2.04	0.0200	"	1.98	103	80-120
Zinc	39.1	0.400	"	39.7	98.6	80-120
Selenium	4.03	0.260	"	3.97	102	80-120

Duplicate (BHE0924-DUP1)

Source: 2405422-01

Prepared: 05/30/24 Analyzed: 05/31/24

Arsenic	5.92	0.200	mg/kg dry	5.85	1.16	20
Barium	116	0.400	"	112	3.45	20
Cadmium	0.220	0.200	"	0.200	9.28	20
Copper	12.3	0.400	"	11.6	5.52	20
Lead	9.67	0.200	"	9.27	4.18	20
Nickel	14.9	0.400	"	14.0	6.13	20
Silver	0.0536	0.0200	"	0.0555	3.58	20
Zinc	44.2	0.400	"	41.5	6.30	20
Selenium	ND	0.260	"	ND		20

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHE0924 - EPA 3050B

Matrix Spike (BHE0924-MS1)

Source: 2405422-01

Prepared: 05/30/24 Analyzed: 05/31/24

Arsenic	48.8	0.200	mg/kg dry	46.6	5.85	92.3	75-125		
Barium	154	0.400	"	46.6	112	90.3	75-125		
Cadmium	2.38	0.200	"	2.33	0.200	93.7	75-125		
Copper	54.5	0.400	"	46.6	11.6	92.0	75-125		
Lead	30.0	0.200	"	23.3	9.27	89.2	75-125		
Nickel	58.1	0.400	"	46.6	14.0	94.6	75-125		
Silver	2.19	0.0200	"	2.33	0.0555	91.5	75-125		
Zinc	86.0	0.400	"	46.6	41.5	95.6	75-125		
Selenium	3.64	0.260	"	4.66	ND	78.1	75-125		

Matrix Spike Dup (BHE0924-MSD1)

Source: 2405422-01

Prepared: 05/30/24 Analyzed: 05/31/24

Arsenic	43.8	0.200	mg/kg dry	42.5	5.85	89.3	75-125	10.9	25
Barium	153	0.400	"	42.5	112	96.8	75-125	0.626	25
Cadmium	2.17	0.200	"	2.12	0.200	92.7	75-125	9.38	25
Copper	49.7	0.400	"	42.5	11.6	89.5	75-125	9.25	25
Lead	27.9	0.200	"	21.2	9.27	87.7	75-125	7.34	25
Nickel	53.0	0.400	"	42.5	14.0	91.7	75-125	9.21	25
Silver	1.98	0.0200	"	2.12	0.0555	90.7	75-125	9.69	25
Zinc	81.1	0.400	"	42.5	41.5	93.3	75-125	5.81	25
Selenium	3.28	0.260	"	4.25	ND	77.1	75-125	10.4	25

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHF0017 - 3060A Mod

Blank (BHF0017-BLK1)

Prepared & Analyzed: 06/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHF0017-BS1)

Prepared & Analyzed: 06/03/24

Chromium, Hexavalent 25.7 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BHF0017-DUP1)

Source: 2405423-01

Prepared & Analyzed: 06/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHF0017-MS1)

Source: 2405423-01

Prepared & Analyzed: 06/03/24

Chromium, Hexavalent 28.6 0.30 mg/kg dry 29.3 ND 97.8 75-125

Matrix Spike Dup (BHF0017-MSD1)

Source: 2405423-01

Prepared & Analyzed: 06/03/24

Chromium, Hexavalent 27.1 0.30 mg/kg dry 27.9 ND 97.4 75-125 5.38 20

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

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

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

Batch BHE0904 - General Preparation

Blank (BHE0904-BLK1)

Prepared: 05/29/24 Analyzed: 06/01/24

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

LCS (BHE0904-BS1)

Prepared: 05/29/24 Analyzed: 06/01/24

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130
Magnesium	4.98	0.0500	"	5.00	99.5	70-130
Sodium	4.78	0.0500	"	5.00	95.6	70-130

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

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

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

Batch BHF0015 - General Preparation

Duplicate (BHF0015-DUP1)		Source: 2405423-09			Prepared & Analyzed: 06/03/24						
% Solids	87.2		%		88.1			1.07		20	

Batch BHF0016 - General Preparation

Duplicate (BHF0016-DUP1)		Source: 2405419-01			Prepared & Analyzed: 06/03/24						
% Solids	87.4		%		89.9			2.82		20	

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Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

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

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

Batch BHE0906 - General Preparation

Blank (BHE0906-BLK1)

Prepared: 05/29/24 Analyzed: 05/30/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHE0906-BS1)

Prepared: 05/29/24 Analyzed: 05/30/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHE0906-DUP1)

Source: 2405423-01

Prepared: 05/29/24 Analyzed: 05/30/24

Specific Conductance (EC) 0.892 0.0100 mmhos/cm 0.900 0.915 20

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.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66 - Knaub 9-13G

Project Number: [none]
Project Manager: Chandler Cole

Reported:
06/18/24 10:57

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

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

Batch BHE0907 - General Preparation

LCS (BHE0907-BS1)

Prepared: 05/29/24 Analyzed: 05/30/24

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BHE0907-DUP1)

Source: 2405423-01

Prepared: 05/29/24 Analyzed: 05/30/24

pH	9.28	pH Units	9.36	0.858	20
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Notes and Definitions

S-04	A sample matrix effect prevented complete surrogate recovery.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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