



Tasman Geosciences

Jeb Watts

6855 West 119th Avenue

Broomfield CO 80020

October 09, 2024

Project Name - P66 - Knaub 9-13G

Project Number - [none]

Attached are your analytical results for P66 - Knaub 9-13G received by Origins Laboratory September 19, 2024. This project is associated with Origins project number E409617-01.

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
303.433.1322
projectmanager@originslab.com



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: P66 - Knaub 9-13G

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	E409617-01	Water	September 19, 2024 11:56	09/19/2024 15:59
MW02	E409617-02	Water	September 19, 2024 12:11	09/19/2024 15:59
MW03	E409617-03	Water	September 19, 2024 12:22	09/19/2024 15:59
MW04	E409617-04	Water	September 19, 2024 12:50	09/19/2024 15:59
MW05	E409617-05	Water	September 19, 2024 12:48	09/19/2024 15:59
MW06	E409617-06	Water	September 19, 2024 11:56	09/19/2024 15:59

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ORIGINS
LABORATORY, INC

6409617

www.originslaboratory.com

page | of |

Client: Tasman P66
Address: 6855 W. 119th Ave.
Broomfield, CO 80020
Telephone Number: 303-482-1228
Email Address: steph.watts@tasman-geo.com
shawn@tasman-geo.com
Project Manager: Steph Watts, Brian Humphrey, Sebnur H.
Project Name: Knaub 9-13G
Project Number: 6409617
Samples Collected By: JBW / JS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air	Summa Canister #			
MW01	9-19-24	1156	3		X							X		1
MW02		1212												2
MW03		1222												3
MW04		1248												4
MW05		1248												5
MW06		1155												6
														7
														8
														9
														10

Requested By: [Signature] Date: 9-19-24 Time: 1559 Received By: [Signature] Date: 9/19/24 Time: 1559
Requisitioned By: [Signature] Date: 9-19-24 Time: 1559

Temp Received: 18.8 Date Results Needed: 9/19/24

Turnaround Time:
☐ Same Day
☐ 24 Hr
☐ 48 Hr
☒ Standard

Origins Laboratory

[Signature]

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Project: P66 - Knaub 9-13G

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Sample Receipt Checklist

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

Origins Work Order: E4 091017

Client: Tasman

Client Project ID: Knaub

Checklist Completed by: JKB/WS

Shipped Via: HO

Date/Time completed: 9/20/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 18.8 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 1025

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

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

Reviewed by (Project Manager) JKB

9/23/24
Date/Time Reviewed

Origins Laboratory

J. Bynon

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: P66 - Knaub 9-13G

MW01

9/19/2024 11:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409617-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B412101	09/21/2024	09/23/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	95.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

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Project: P66 - Knaub 9-13G

MW02

9/19/2024 12:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409617-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	10.1	2.00	ug/L	1	B412101	09/21/2024	09/23/2024	
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

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Project: P66 - Knaub 9-13G

MW03

9/19/2024 12:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409617-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4I2101	09/21/2024	09/23/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130	"	"	"
Surrogate: Toluene-d8	95.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

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MW04

9/19/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409617-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4I2101	09/21/2024	09/23/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130	"	"	"
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	"	"	"

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MW05

9/19/2024 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409617-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4I2101	09/21/2024	09/23/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130	"	"	"
Surrogate: Toluene-d8	95.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

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Project: P66 - Knaub 9-13G

MW06

9/19/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409617-06 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4I2101	09/21/2024	09/23/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130	"	"	"
Surrogate: Toluene-d8	94.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130	"	"	"

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4I2101 - EPA 5030B (Water)										
Blank (B4I2101-BLK1)					Prepared: 09/21/2024 Analyzed: 09/22/2024					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I2101 - EPA 5030B (Water)

LCS (B4I2101-BS1)

Prepared: 09/21/2024 Analyzed: 09/22/2024

1,2,4-Trimethylbenzene	54.2	2.00	ug/L	50.0		108	70-130			
1,3,5-Trimethylbenzene	54.6	2.00	"	50.0		109	70-130			
Benzene	53.2	1.00	"	50.0		106	70-130			
Ethylbenzene	55.1	1.00	"	50.0		110	70-130			
m,p-Xylene	109	2.00	"	100		109	70-130			
Naphthalene	51.0	2.00	"	50.0		102	70-130			
o-Xylene	52.0	1.00	"	50.0		104	70-130			
Toluene	54.4	1.00	"	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4I2101 - EPA 5030B (Water)										
Matrix Spike (B4I2101-MS1)		Source: E409407-01			Prepared: 09/21/2024 Analyzed: 09/22/2024					
1,2,4-Trimethylbenzene	32.6	2.00	ug/L	50.0	ND	65.2	70-130			QM-07
1,3,5-Trimethylbenzene	30.1	2.00	"	50.0	ND	60.1	70-130			QM-07
Benzene	36.9	1.00	"	50.0	ND	73.8	70-130			
Ethylbenzene	33.3	1.00	"	50.0	ND	66.6	70-130			QM-07
m,p-Xylene	64.2	2.00	"	100	ND	64.2	70-130			QM-07
Naphthalene	42.8	2.00	"	50.0	ND	85.7	70-130			
o-Xylene	35.0	1.00	"	50.0	ND	70.1	70-130			
Toluene	34.2	1.00	"	50.0	ND	68.4	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4I2101 - EPA 5030B (Water)										
Matrix Spike Dup (B4I2101-MSD1)			Source: E409407-01		Prepared: 09/21/2024 Analyzed: 09/22/2024					
1,2,4-Trimethylbenzene	38.1	2.00	ug/L	50.0	ND	76.1	70-130	15.4	20	QR-02
1,3,5-Trimethylbenzene	36.9	2.00	"	50.0	ND	73.8	70-130	20.3	20	
Benzene	37.5	1.00	"	50.0	ND	74.9	70-130	1.53	20	
Ethylbenzene	37.6	1.00	"	50.0	ND	75.1	70-130	12.0	20	
m,p-Xylene	74.6	2.00	"	100	ND	74.6	70-130	15.0	20	
Naphthalene	42.7	2.00	"	50.0	ND	85.4	70-130	0.281	20	
o-Xylene	38.4	1.00	"	50.0	ND	76.9	70-130	9.23	20	
Toluene	36.2	1.00	"	50.0	ND	72.3	70-130	5.57	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Project: P66 - Knaub 9-13G

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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